

489 CANAL ST. (A.K.A. 219 HUDSON ST.)

MANHATTAN, NEW YORK

Remedial Investigation Report

NYC VCP Site Number: 15CVCP010M

OER Project Number: 14EH-N213M

Prepared for:

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REMEDIAL INVESTIGATION REPORT

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LIST OF ACRONYMS

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

CERTIFICATION

I, Clifford Bell, 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 489 Canal Street (a.k.a. 219 Hudson Street, NYC VCP Site No. 12-703). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Qualified Environmental Professional

Date

Signature

EXECUTIVE SUMMARY

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

Site Location and Current Usage

The Site is located at 489 Canal Street in the SoHo section in Manhattan, New York and is identified as Block 594 and Lot 108 on the New York City Tax Map. **Figure 1** shows the Site location. The Site is approximately 4,203-square feet in area and is bounded by multi-story retail/residential buildings and a construction site (future hotel) to the north, Canal Street and a multi-story commercial building (Mr. Lock's Security Systems) to the south, Hudson Street and the approach to the Holland Tunnel to the east, and a two-story commercial building (Polo Electric) to the west. Currently, the Site is used for storage. A portable construction trailer is also located on the Site as well as the remaining 8 feet of the base of the billboard sign. The entirety of the Site is covered by asphalt pavement with a concrete pad located in the southern part of the Site.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of an 11-story mixed used hotel and restaurant space planned for the lower two floors. Layout of the proposed site development is presented in Figure 2. The current zoning designation is C6-2A and the proposed use is consistent with existing zoning for the property. The basement level will be an estimated 6 feet below street grade featuring mechanical equipment rooms and storage space. The total square footage of the lot of 4,203 sf will be entirely covered by the building footprint. The total proposed floor area is 27,951 sf. The anticipated excavated soil volume to be excavated for the building foundation is 934 cubic yards. The excavation depth is estimated to be seven feet. Removal of the remaining Site billboard base post is planned.

Summary of Past Uses of Site and Areas of Concern

The subject property is currently utilized for storage. Prior to current use as storage the Site was used as a parking lot starting in the 1990s. Pursuant to information presented by Soil Mechanics Environmental Services (SMES) in their January 2013 Phase I report and according to historical records between 1894 and the early 1930s, the Site was improved by several multi-story buildings. Site usage was considered residential/commercial in nature. According to multiple sources, the subject property was operated as a gasoline filling and vehicle repair facility from the early 1930s through the 1980s. During a Phase I Site reconnaissance performed by SMES a concrete mat was observed along the southern portion of the Site. This mat location was consistent with the location of former gasoline dispensers and was still present as observed during a site visit by GZA on May 7, 2014.

Metallic roadboxes, labeled as gasoline, were observed on the northeastern portion of the Site within a public sidewalk. SMES identified these roadboxes as fill ports and GZA confirmed they were marked as "GASOLINE". According to records provided to SMES by the property owner up to seven (7) 550-gallon USTs were at one time located on the property. Based upon a letter dated July 14, 1987, these tanks were evacuated of all combustible materials and all fill lines were cemented in place by AAR-BEE Oil Service Inc., of Whitestone, NY, a NYCDEP-approved and FDNY-approved firm. A second document (receipt) indicates that three of the USTs were removed circa November 30, 1990, although the address of the Site is not on the receipt. Violation order #D71550 was issued by the NYC Fire Department Bureau of Fire Prevention for the Site on September 16, 1998; requiring the sealing of seven (7) 550-gallon gasoline USTs. Lastly, an undated letter was provided to SMES by the property owner. This letter issued by the NYC Fire Department to Mr. Jerafi stated that based upon documentation provided to the department by Mr. Jerafi that violation order #D71550 was revoked. Although unconfirmed, according to the above referenced information potentially four (4) USTs remain in-place at the Site.

The Areas of Concern (AOC) identified for this site include:

1. The presence of an "active" status SPILL Site with documented groundwater contamination at 231-239 Hudson Street.
2. The historical use of the property as a gasoline filling station, the site is listed as

an E Designated site with an effective date of August 19, 2003 as well as file correspondence leaving in question how many of the seven suspect tanks on site remain. GZA called in a spill to the NYSDEC on March 23, 2014. Spill Number 1312004 was assigned to the address.

Summary of the Work Performed under the Remedial Investigation

SMES and GZA performed the following scope of work:

1. SMES conducted a Site inspection on December 12, 2012, and GZA conducted a Site inspection on May 7, 2014 to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. SMES installed six soil borings across the entire project Site, and collected nine soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. SMES installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples for chemical analysis to evaluate groundwater quality in January 2012. GZA collected additional groundwater samples in May 2014 from each of MW-1 and MW-2;
4. SMES installed three soil vapor probes around the Site perimeter and collected three samples for chemical analysis.

Summary of Environmental Findings

Soil Mechanics Environmental Services (SMES) performed geotechnical explorations in December 2012 and subsurface assessment activities at the site relative to identified Recognized Environmental Conditions (REC) in January 2013. GZA performed a geotechnical exploration from April 9-14, 2014. GZA also performed additional groundwater sampling on May 12, 2014.

1. Borings B-1 and B-2 were surveyed at 8.08 and 7.83 feet as referenced to Borough of Manhattan Map 17 and Bench Mark Elevation 7.30 feet at the corner of Hudson and Canal Street and presented by Soil Mechanics Drilling Corporation on their January 2013 Subsurface Investigation Report. The property is relatively level.
2. Depth to groundwater is approximately 7 feet below the surface grade at the Site.

3. Groundwater flow is generally from northeast to southwest beneath the Site based on topographic considerations only, however, this direction could be significantly influenced by local features including subsurface drainage, subsurface structural features such as the adjacent Port Authority tunnel structures, and/or local pumping.
4. Depth to bedrock is greater than 102 feet at the Site as GZA completed a geotechnical boring on April 8, 2014 to this depth and did not encounter bedrock.
5. The stratigraphy of the site, from the surface down, consists of fill to 10 feet comprised of fine to coarse sand with up to 10 percent gravel and up to 20 percent silt with occasional brick fragments, 0.5 to 2 feet of peat immediately underlying the fill, underlain by fine to coarse sand with up to 40 percent silt and 20 percent gravel below the peat stratum to the end of the GZA boring at 102 feet.
6. Soil sample results were compared to NYSDEC Part 375-6 Unrestricted Use (Track 1) and Restricted Commercial Use (Track 2) Soil Cleanup Objectives (SCOs). Soil samples showed detectable concentrations of volatile organic compounds (VOC), semi-volatile organic compounds (SVOC) and metals in exceedance of their respective Restricted Residential Use SCOs. Five VOCs were detected above their respective Unrestricted Use SCOs and included toluene (max of 809 ppb), Ethylbenzene (max of 51,500 ppb), m,p-xylene (6,500 ppb), o-xylenes (3,910 ppb), isopropylbenzene (19,400 ppb). Isopropylbenzene and ethylbenzene also exceeded their respective Restricted Residential SCOs. SVOCs including benzo(a)anthracene (max 1,130 ppm), chrysene (max of 1,340 ppm), benzo(b)fluoranthene (max of 1,720 ppm), benzo(a)pyrene (max of 1,300 ppm), and ideno(1,2,3-cd)pyrene (max of 955 ppm) exceeded their respective Restricted Residential SCOs. Five metals were detected exceeding Restricted Residential SCOs both in the 0-2' samples and the 4-6' samples and included cadmium (max. of 3.35 ppm), copper (max of 147 ppm), lead (max of 1,840 ppm), mercury (max of 3.40 ppm), and zinc (max of 1350 ppm). Of these metals, lead and mercury also exceeded Restricted Commercial Use SCOs. Two pesticides including 4,4'-DDE (max of 6.57 ppb) and 4,4'-DDT (max of 30.0 ppb) were detected in one soil sample each and were above Unrestricted Use SCOs and below Restricted Residential SCOs. PCBs were not detected. Other than lead and mercury, no VOCs, SVOCs and pesticides exceeded Restricted Commercial Use SCOs.

7. Groundwater samples collected were compared to NYSDEC 6NYCRR Part 703 Ambient Water Quality Standards and Guidance Values (GQS) or TOGS 1.1.1. Two groundwater samples were collected by GZA during the May, 2014 remedial investigation and three groundwater samples collected by SMES during the January 2013 remedial investigation showed concentrations of pesticides, VOCs, SVOCs, and metals above their respective GQS. Several metals were identified but only antimony (6.01), barium (max of 1.61 mg/L), iron (12,100 µg/L), magnesium (69,300 µg/L), manganese (1,962 µg/L), sodium (max of 987 µg/L), and lead (max of 0.075 µg/L) exceeded their respective GQSs. Several VOCs were detected including isopropylbenzene (200 µg/L), ethylbenzene (590 µg/L), benzene (170 µg/L), n-butylbenzene (max of 22 µg/L), sec-butylbenzene (max of 14 µg/L), toluene (max of 39 µg/L), p/m-xylene (max of 170 µg/L), o-xylene (max of 17 µg/L), p-isopropyltoluene (max of 13 µg/L), n-propylbenzene (max of 300 µg/L), 1,3,5-trimethylbenzene (max of 84 µg/L), 1,2,4-trimethylbenzene (max of 17 µg/L), and acetone (66.4 mg/L). Several SVOCs were detected above their respective GQSs and including naphthalene (max. of 836 mg/L), pentachlorophenol (max of 4.7 µg/L), and bis(2-ethylhexyl)phthalate (max of 9.1 µg/L) . No pesticides or PCBs were detected in groundwater.
8. Soil vapor samples collected during the RI were compared to the compounds listed in Table 3.1 Air Guideline Values Derived by the NYSDOH located in the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion. All three soil vapor samples collected during the remedial investigation showed low-level concentrations of several VOC constituents. All compounds were detected at concentrations less than 10 µg/m³. None of the sample detections exceeded the New York State Department of Health Air Guideline Values (NYSDOH AGV). Chlorinated VOCs including PCE, TCE, 1,1,1- TCA, and Carbon Tetrachloride were all non- detect.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

HSH Construction, LLC is enrolling in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.10-acre site located at 489 Canal Street in the Soho section of Manhattan, New York. Mixed commercial and residential use is proposed for the property. The RI work was performed between January 12, 2013 and May 12, 2014. 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 at 489 Canal Street in the Soho section in Manhattan, New York and is identified as Block 594 and Lot 108 on the New York City Tax Map. **Figure 1** shows the Site location. The Site is approximately 4,203-square feet in area and is bounded by multi-story retail/residential buildings and a construction site (future hotel) to the north, Canal Street and a multi-story commercial building (Mr. Lock's Security Systems) to the south, Hudson Street and the approach to the Holland Tunnel to the east, and a two-story commercial building (Polo Electric) to the west. Currently, the Site is used for storage. **A portable construction trailer is also located on the Site as well as the remaining 8 feet of the base of the billboard sign. The entirety of the Site is covered by asphalt pavement with a concrete pad located in the southern part of the Site.**

1.2 PROPOSED REDEVELOPMENT PLAN

The proposed future use of the Site will consist of **an 11-story mixed used hotel and restaurant space planned for the lower two floors.** Layout of the proposed site development is presented in Figure 2. The current zoning designation is C6-2A and the proposed use is consistent with existing zoning for the property. The basement level will be an estimated 6 feet below street grade featuring mechanical equipment rooms and storage space. The total square footage of the lot of 4,203 sf will be entirely covered by the building footprint. The total proposed floor area is 27,951 sf. The anticipated excavated soil volume to be excavated for the

building foundation is 934 cubic yards. The excavation depth is estimated to be seven feet. Removal of the remaining Site billboard base post is planned.

1.3 DESCRIPTION OF SURROUNDING PROPERTY

The Site is situated in the southern section of the community district of Soho; it borders the northern section of Tribeca. The urban area surrounding the Site is characterized by multi-story residential, retail and commercial buildings. The Hudson River and entrance to the Holland Tunnel are located approximately 900 feet to the east of the Site. A search of OER's SPEED website was performed by GZA on April 9, 2014. The results indicated that the Site is zoned as C6-2A. Search results for sensitive receptors including schools, hospitals and daycares indicated that none of these receptors are currently located within 500 feet of the Site.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

The subject property is currently utilized for storage. Prior to current use as storage the Site was used as a parking lot starting in the 1990s. Pursuant to information presented by **Soil Mechanics Environmental Services (SMES)** in their January 2013 Phase I report and according to historical records between 1894 and the early 1930s, the Site was improved by several multi-story buildings. Site usage was considered residential / commercial in nature. According to multiple sources, the subject property was operated as a gasoline filling and vehicle repair facility from the early 1930s through the 1980s. During a Phase I Site reconnaissance performed by SMES a concrete mat was observed along the southern portion of the Site. This mat location was consistent with the location of former gasoline dispensers and was still present as observed during a site visit by GZA on May 7, 2014.

Metallic roadboxes, labeled as gasoline, were observed on the northeastern portion of the Site within a public sidewalk. SMES identified these roadboxes as fill ports and GZA confirmed they were marked as "GASOLINE". According to records provided to SMES by the property owner up to seven (7) 550-gallon USTs were at one time located on the property. Based upon a letter dated July 14, 1987, these tanks were evacuated of all combustible materials and all fill lines were cemented in place by AAR-BEE Oil Service Inc., of Whitestone, NY, a NYCDEP-approved and FDNY-approved firm. A second document (receipt) indicates that three of the USTs were removed circa November 30, 1990, although the address of the Site is not on the receipt. Violation order #D71550 was issued by the NYC Fire Department Bureau of Fire Prevention for the Site on September 16, 1998; requiring the sealing of seven (7) 550-gallon gasoline USTs. Lastly, an undated letter was provided to SMES by the property owner. This letter issued by the NYC Fire Department to Mr. Jerafi stated that based upon documentation provided to the department by Mr. Jerafi that violation order #D71550 was revoked. Although unconfirmed, according to the above referenced information potentially four (4) USTs remain in-place at the Site.

2.2 Previous Investigations

As detailed in a January 2013 Phase I Site Investigation report prepared by SMES, a geotechnical investigation was conducted at the subject property by Soil Mechanics Drilling Corp. in December 2012. Two borings were advanced on the site property during the geotechnical investigation. As detailed in the Phase I report, SMES observed an 11 to 13 foot thick layer of fill beneath the site, underlain by a thin layer of peat, and fine sand to the bottom of the borings at 37 feet below grade.

SMES conducted Site investigation activities in January 2013 including a geophysical ground penetrating radar (GPR) survey, soil vapor monitoring, groundwater monitoring well installation, groundwater sampling, and subsurface soil sampling.

Following completion of the GPR survey, a total of six (6) soil borings were advanced on the property. Additionally, three (3) groundwater monitoring wells were installed on the subject property as well as three soil vapor sampling locations. As means to evaluate potential subsurface impacts SMES submitted nine (9) soils, three (3) groundwater and three (3) soil vapor samples to a NYSDOH-approved laboratory.

Exceedances of volatile and semi-volatile organic compounds (SVOC) and metals in both soil and groundwater of soil cleanup objective and groundwater and ambient water quality guidance values and standards were observed in soil and groundwater samples collected within and surrounding the suspect historic areas of concern.

2.3 Site Inspection

SMES conducted a Site reconnaissance on December 10, 2012 as documented in the Phase I Environmental Site Assessment (ESA), which reportedly was conducted under the direction of qualified environmental professional, Robert J Cardinale. GZA representative and qualified environmental professional, Clifford Bell, also conducted a Site visit on May 7, 2014. The site is an irregular shaped parcel 57.25 feet by 31.58 feet in dimension. During the SMES Site reconnaissance, the Site was comprised of an approximate 6.0' X 48.0' one-story brick building (there is no access to this building from the Site), an approximate 17.0' X 20.0' one-story wood frame shed (used to store vending carts), large advertising sign (billboard),

construction trailer, and asphalt surfaces. Several manholes labeled as electric were also observed on the property. As was observed during the GZA Site visit the one-story wood frame shed was removed as was the billboard sign with the exception of the remaining base post to approximately eight feet in height. The property is currently utilized for storage.

SMES noted, as was confirmed by GZA, a concrete mat located on the southern portion of the property. It is assumed this concrete mat was the location of a former gasoline dispenser island. Two metallic caps, or roadboxes, labeled as "GASOLINE" and located on the northeastern portion of the Site within a public sidewalk, were also noted by SMES and GZA. It is unclear whether the fill ports are actually associated with USTs.

None of the following were visually identified by SMES on December 10, 2012 or GZA on May 7, 2014: electrical or hydraulic equipment, aboveground storage tanks (AST), containers of hazardous substances or petroleum products, drainage structures, discolored or spill areas, stained soil or pavement, areas of stressed vegetation, odors, pools of liquid, medical or infectious waste, solid waste and/or pits, ponds or lagoons.

2.4 Areas of Concern

The Areas of Concern (AOC) identified for this site include:

1. The presence of an "active" status SPILL Site with documented groundwater contamination at 231-239 Hudson Street.
2. The historical use of the property as a gasoline filling station, the site is listed as an E Designated site with an effective date of August 19, 2003 as well as file correspondence leaving in question how many of the seven suspect tanks on site remain.

The Phase 1 Report completed by SMES and the aforementioned correspondence regarding closure and removal of tanks at the Site is presented as Appendix B. The SMES January 2013 Letter Report documenting site investigation activities and the December 2012 Geotechnical Boring report are presented in Appendix C.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Clifford Bell of GZA GeoEnvironmental, Inc.

3.2 Health and Safety

Since GZA did not participate in the SMES Site investigation activities, GZA cannot make a representation as to whether the work described in this RIR as performed by SMES was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements. The supplemental groundwater sampling performed in May 2014 by GZA was performed in compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements.

3.3 Materials Management

Since GZA did not participate in the SMES Site investigation activities, GZA cannot make a representation as to whether all material encountered during their phase of the RI was managed in accordance with applicable laws and regulations. Approximately 4 gallons of purge water was collected from the supplemental groundwater sampling event conducted by GZA has been contained in a 55-gallon drum and will be disposed as a regulated non-hazardous fluid.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

SMES and GZA performed the following scope of work:

1. SMES conducted a Site inspection on December 12, 2012, and GZA conducted a Site inspection on May 7, 2014 to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. SMES installed six soil borings across the entire project Site, and collected nine soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. SMES installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples for chemical analysis to evaluate groundwater quality in January 2012. GZA collected additional groundwater samples in May 2014 from each of MW-1 and MW-2;
4. SMES installed three soil vapor probes around the Site perimeter and collected three samples for chemical analysis.

4.1 Geophysical Investigation

As part of the Site investigation activities SMES conducted an evaluation of subsurface conditions via geophysical ground penetrating radar (GPR) in January 2013. The intent of the GPR survey was to investigate the presence or absence of the suspect USTs and automobile lift(s), as well as possible subsurface septic or storm drain or leaching system structures and underground utilities. The GPR survey was performed using a Geophysical Survey Systems, Inc., Subsurface Interface Radar (GSSI SIR System -2, equipped with a 400-MHz antenna unit. According to the SMES March 2013 Site Investigative Letter Report, the results of the GPR survey were inconclusive, as none of the suspected subsurface features (i.e. UST, piston lift, utilities etc.) were identified during the survey. A report detailing results of the GPR survey was not included as part of the SMES March 2013 Letter Report.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

SMES completed two geotechnical borings, B-1 and B-2 to 37 feet below grade on or about December 20, 2012. The logs indicated fill consisting of sand, silt, gravel, rock fragments,

cobbles and brick to 10 feet below grade, one to two feet of dark brown peat, underlain by fine sand and medium to fine sand with a trace of silt to 37 feet. Depth to water was recorded as 7 feet 2 inches and 7 feet 9 inches below grade, respectively, in the borings.

Six soil borings, identified as GP-1 through GP-6, were advanced at the Site in January 2013 under SMES supervision. Each boring was advanced via hollow-stem auger drilling equipment to a depth of 6 feet below surface grade. Soil borings GP-1, GP-2 and GP-6 were strategically located to assess subsurface soil conditions in the vicinity of the concrete mat (former gasoline dispensers), boring GP-4 was positioned to evaluate subsurface soil proximal to the former service station building, and soil borings GP-3 and GP-5, as well as the other four (4) previously listed soil borings, were advanced to assess urban fill beneath the Site.

Soil samples were collected in a two-foot split spoon sampler at a continuous interval from surface to a depth of 6 feet below surface grade. Soil samples were inspected by SMES personnel for visual or olfactory evidence of contamination, screened with a PE Photovac™ 2020 photo-ionization detector (PID) and logged with a description of geology. The PID results observed along the sampling profile of the borings are presented in Table A of the SMES Phase II Investigation Report.

As reported by SMES, none of the samples exhibited overt evidence of visual or olfactory petroleum related impacts. Urban fill consisting of gray to brown silty sand, gravel, brick, concrete, rock fragments and cinders was observed at each borehole. The groundwater table was not encountered during subject soil assessment activities.

GZA completed a single geotechnical boring on April 8, 2014 to 102 feet below grade. GZA observed fill to 10 feet below the existing grade, with 1.5 feet of peat, underlain by fine to coarse sand with up to 40 percent silt and up to 20 percent gravel encountered below the peat layer to the end of the boring.

Boring logs prepared by SMES are attached as **Appendix D**. A Site map showing the location of soil borings and monitor wells and soil vapor sample locations is shown in **Figure 3**. Construction specifications for soil borings, monitoring wells and soil vapor points are presented in Appendix E

Groundwater Monitoring Well Construction

Three groundwater monitoring wells, identified as MW-1 through MW-3, were installed by SMES at the Site to assess groundwater conditions relative to historic Site usage, and to evaluate potential impact from the adjacent NYSDEC “active” petroleum SPILL site (SPILL #0801296) located to the north of the Site at 231-239 Hudson Street.

According to SMES, the three wells were installed using hollow-stem drilling equipment and were surveyed, developed, purged, and samples in accordance with NYSDEC protocols. Each well was constructed of 2 inch diameter 0.020 inch factory slot PVC well screen and 2 inch diameter solid PVC riser. Each of the three wells was fitted with 15 feet of well screen and two feet of solid riser for total well depths of 17 feet below grade. The groundwater table was observed at approximately 7 feet below surface grade at each of the three well locations according to the well construction diagrams in Appendix D.

Monitor well locations are shown in **Figure 3**.

Survey

According to the SMES Phase II report, the groundwater monitoring wells were surveyed in accordance with standard NYSDEC protocols. Top of PVC casing for the monitoring wells are provided in the well construction diagrams in Appendix D. Additional information about surveys performed at the Site was not provided to GZA.

Water Level Measurement

Although depth to water measurements were obtained by SMES to evaluate groundwater flow, depth to water measurements as presented in Appendix F at MW-1 and MW-2 are not considered reliable by GZA. GZA concludes this due to the difference in measurements (2.24 ft. at a distance of 20 feet), and the fact the date of measurement was recorded on January 4, 2013 vs. the documented date of well installation of January 16, 2013.

GZA documented depth to groundwater at 6.68 feet and 6.57 feet below the top of PVC casing in wells MW-1 and MW-2 respectively on May 12, 2014.

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for Areas of Concern and sampling intervals were based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. Media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

Nine (9) soil samples were collected for chemical analysis during this RI. Samples collected during the SMES soil and groundwater sampling efforts were collected, as reported by SMES, in accordance with appropriate sampling and decontamination protocols, delivered to NYSDOH ELAP certified laboratories in accordance with appropriate chain of custody procedures. **Figure 3** shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Groundwater Sampling

Five groundwater samples were collected for chemical analysis during this RI, three as part of the SMES Site Investigation in January 2013 and two samples by GZA during supplemental groundwater sampling in April 2014. Groundwater quality parameters were not included in the March 2013 Site Investigative letter report completed by SMES.

On Monday May 12th 2014, as per OER's request, GZA re-conducted a supplemental low flow groundwater sampling event for the collection of samples from MW-1 and MW-2. Wells were first purged by use of a peristaltic pump while field parameters were monitored using a YSI meter. After purge waters from monitoring wells MW-1 and MW-2 were adequately stabilized, samples were collected in laboratory supplied bottle ware preserved as appropriate. Groundwater samples were packed in ice and transported under proper chain-of-custody procedures to Alpha Analytical Laboratories (Alpha) of Westborough, Massachusetts. Alpha is accredited in the Environmental Laboratory Approval Program, (ELAP License No. 11148), and is a certified lab for SW-846 solid and hazardous waste methods. Sampling logs with

information on purging and sampling during the GZA supplemental groundwater sampling effort for MW-1 and MW-2 are included in Appendix G. **Figure 3** shows the groundwater sampling locations. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

Three soil vapor probes were installed and three soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in **Figure 3**. According to the SMES Phase II, the soil probes were installed utilizing direct-push sampling equipment. To obtain representative samples, soil vapor samples were collected utilizing the following procedure. A 6-inch double woven stainless steel implant was reportedly driven to a depth of approximately 5 feet below existing grade. Hermetically sealed laboratory grade polyethylene tubing was attached to the implant and the screen section backfilled with rounded glass beads to 2" above the target depth. The remaining annular space was then backfilled with bentonite/cement grout to grade, and the implant was finished with a 5" diameter bolt down manhole cover. To confirm that the acquired samples were not diluted by outside air infiltration and to ensure the integrity of the implant seal, the following Quality Assurance/Quality Control (QA/QC) measures were utilized: (1) a direct read, real time helium detector was connected to the implant tubing; and (2) the atmosphere immediately adjacent to where the implant probe intersects the ground surface was enriched with helium; (3) each implant was subject to purging of 3 to 4 well volumes, once the integrity of implant installation was confirmed, i.e., minimum of 24 hours after implant installation; (4) samples were collected utilizing 1 liter Summa canisters certified to be clean by the testing laboratory and equipped with a low flow regulator (not exceeding 0.2 liters per minute); (5) the sampling duration was minimum two (2) hours; and (6) weather, temperature and barometric pressure were recorded.

Methodologies used for soil vapor assessment generally conformed to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006 (NYSDOH FGSVI)*. However, SMES did not provide soil vapor sampling logs in their March 2013 Site Investigation Letter Report.

Chemical Analysis

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

Factor	Description
Quality Assurance Officer	see below
Chemical Analytical Laboratory	The Chemical analytical laboratories used in the RI are NYS ELAP-certified and were Long Island Analytical Laboratories Inc. of Holbrook, NY (Michael Veraldi), Centek Laboratories of Syracuse, NY, and Alpha Analytical Laboratories (Alpha) of Westborough, Massachusetts (Christopher J. Anderson).
Chemical Analytical Methods	<p>Soil analytical methods:</p> <ul style="list-style-type: none"> • TAL Metals by EPA Method 6010C (rev. 2007); • Volatile organic compounds (VOC) by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); <p>Groundwater analytical methods:</p> <ul style="list-style-type: none"> • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); <p>Soil vapor analytical methods:</p> <ul style="list-style-type: none"> • VOCs by TO-15 VOC parameters.

Results of Chemical Analyses

Laboratory data for soil vapor, soil, and groundwater as collected by SMES are summarized in Tables 1, 2 and 3, respectively. The supplemental groundwater sampling results from

sampling of wells MW-1 and MW-2 performed by GZA are presented in Table 4. Laboratory data deliverables for all samples evaluated in this RIR are provided in Appendix H.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Stratigraphy

Based on the deep boring performed by GZA and previous geotechnical exploration as presented on the exploration logs, stratigraphy of the site includes fill to 10 feet, comprised of fine to coarse sand with up to 10 percent gravel and up to 20 percent silt with occasional brick fragments, .5 to 2 feet of peat immediately underlying the fill, underlain by fine to coarse sand with up to 40 percent silt and 20 percent gravel below the peat stratum to the end of the GZA boring at 102 feet.

Hydrogeology

A table of water level data collected by SMES for all monitor wells is included in **Appendix F**. As indicated above, GZA does not consider the results to be reliable. The direction of groundwater flow based on topographic considerations only is anticipated to be from northeast to southwest. However, this direction could be significantly influenced by local features including subsurface drainage, subsurface structural features such as the adjacent Port Authority tunnel structures, and/or local pumping. The depth to groundwater as measured by GZA in May 2014 was 6.68 and 6.57 below the top of the PVC casing in MW-1 and MW-2, respectively.

5.2 Soil Chemistry

Based on the laboratory results presented in the SMES Phase II, detectable concentrations of VOCs were identified in samples GP-1/S-1, GP-1/S-3, and GP-5/S-1. Selected VOC constituents including ethylbenzene, m,p-xylenes, o-xylene, and isopropylbenzene in sample GP-1-S-3 exceeded their respective unrestricted use soil cleanup objective (UUSCO) and their respective residential use soil cleanup objective (RUSCO) as defined by NYSDEC 6NYCRR Part 375 and/or soil cleanup objective (SCO) defined by NYSDEC CP-51. Selected VOC constituents including toluene, ethylbenzene, m,p-xylenes, o-xylene in sample GP-5/S-1 also exceeded their respective UUSCO and RUSCO criteria.

Detectable concentrations of SVOCs were identified in eight of the nine soil samples. SVOC constituents in sample GP-1/S-1 including benzo(b)fluoranthene and indeno(1,2,3-cd)pyrene and in sample GP-3/S-1 including benzo(a)anthracene, chrysene,

benzo(b)fluoranthene, benzo(a)pyrene and indeno(1,2,3-cd)pyrene exceeded their respective UUSCO and RUSCO.

Five metals were identified above either of their UUSCO or RUSCO in six borings. Cadmium in GP-6/S-3 and copper in GP-3/S-1 exceeded the UUSCO. Lead exceeded the UUSCO in all samples and the RUSCO in GP-2/S-1, GP-4/S-1, GP-5/S-1 and GP-6/S-3. Mercury exceeded the UUSCO in GP-1/S-1, GP-2/S-2, and GP-6/S-3 and the RUSCO in GP-3/S-3, GP-4/S-1 and GP-5/S-1. Zinc exceeded the UUSCO in GP-1/S-1, GP-2/S-1, and GP-3/S-1, GP-4/S-1, GP-5/S-1 and GP-6/S-3. There were detectable concentrations of pesticides in three of the nine samples. Compounds 4,4'-DDE and 4,4'-DDT in GP-2/S-1 and GP-3/S-1, respectively, exceeded their corresponding UUSCO, but did not exceed their respective RUSCOs. There were no PCB exceedances in any of the samples.

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

5.3 Groundwater Chemistry

According to the laboratory reported data presented in the SMES March 2013 Letter Report, detectable concentrations of VOCs were identified in samples MW-1 and MW-2, some of which exceeded their respective standard/criteria defined by NYSDEC 6NYCRR Part 703 Ambient Water Quality Standards and Guidance Values (AWQSGV) or TOGS 1.1.1. VOCs in exceedance of the AWQSGV included acetone, benzene, ethylbenzene, and isopropylbenzene in MW-1, and benzene in MW-2.

Detectable concentrations of the SVOC, naphthalene, were observed in samples MW-1 and MW-2, in exceedance of its respective standard/criterion defined by the AWQSGV.

Detectable concentrations of selected metal constituents were identified in filtered and non-filtered samples in each of MW-1, MW-2 and MW-3, some of which exceeded their respective AWQSGV. Metal analytes that exceeded included barium, iron, sodium, in each well and lead in MW-1 and MW-2

No pesticides and no PCBs were detected in any of the groundwater samples collected.

In the GZA samples collected in March 2014, detectable concentrations of VOCs were identified in samples MW-1 and MW-2. Only MW-1 contained compounds which exceeded their respective standard/criteria defined by NYSDEC 6NYCRR Part 703 AWQSGV including benzene, toluene, ethylbenzene, p/m and o-xylene, n-butylbenzene, sec-butylbenzene, isopropylbenzene, p-isopropyltoluene, naphthalene, n-propylbenzene, 1,2,5-trimethylbenzene and 1,2,4-trimethylbenzene.

Three SVOCs exceeded the AWQSGV in MW-1 including bis(2-ethylhexyl)phthalate, naphthalene, and pentachlorophenol. There were no exceedances of SVOC in MW-2.

There were no exceedances of any pesticide compounds in either of the GZA supplemental groundwater samples.

Metal analytes including antimony, iron, magnesium, manganese and sodium exceeded their respective AWQSGV in MW-1. Only iron and sodium exceeded the AWQSGV in MW-2.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. Summaries of data for chemical analyses performed on groundwater samples collected in January 2013 are included in **Table 3**. A summary of groundwater sample results from the GZA Supplemental sampling performed in May 2014 is presented in Table 4.

Figure 5 shows the locations and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

5.4 Soil Vapor Chemistry

The SMES Phase II reported detectable concentrations of twenty VOC constituents in the three samples. None of the sample detections exceeded either the New York State Department of Health Air Guideline Values or the New York State Department of Health Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes, 2003, Upper Fence Values. A summary table of data for chemical analyses performed on soil vapor samples is included in **Table 1**.

5.5 Prior Activity

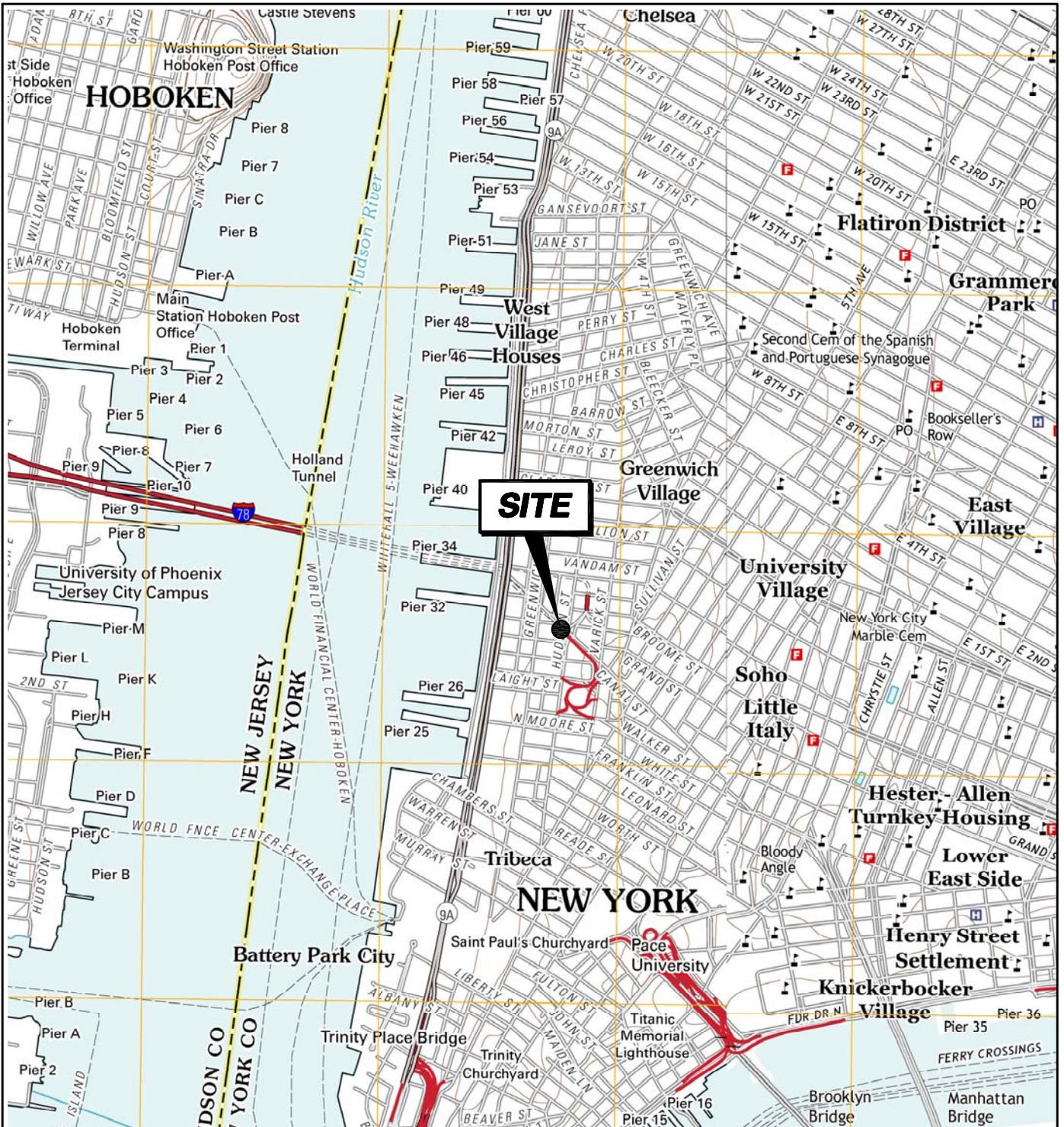
Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

5.6 Impediments to Remedial Action

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

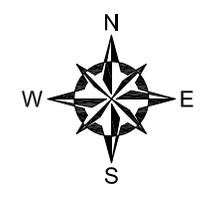


FIGURES



NEW YORK
QUADRANGLE LOCATION

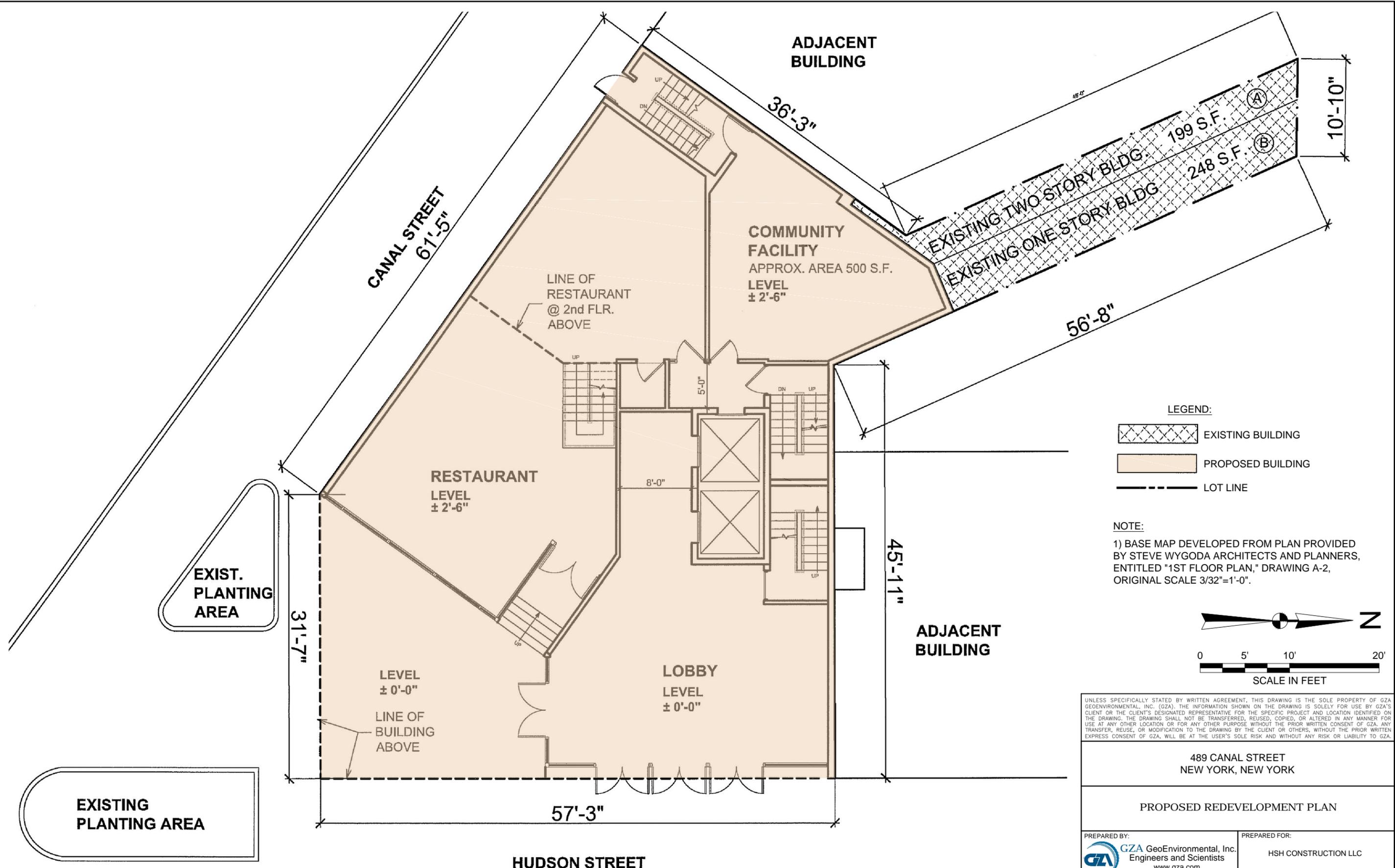
SOURCE:
USGS TOPOGRAPHIC MAPS: JERSEY CITY, NJ-NY (2011) &
BROOKLYN, NY (2013). CONTOUR INTERVAL 10 FT.,
ORIGINAL SCALE 1:24,000 (1"=2,000 FT.).



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<p>489 CANAL STREET NEW YORK, NEW YORK</p>	<p>PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com</p>	<p>PREPARED FOR: HSH CONSTRUCTION LLC</p>
<p>SITE LOCATION MAP</p>	<p>PROJ MGR: AS REVIEWED BY: AS DESIGNED BY: MY DRAWN BY: MT DATE: JUNE 2014 PROJECT NO. 41.0162188.00</p>	<p>CHECKED BY: DSR SCALE: 1" = 2000' REVISION NO.</p> <p>FIGURE 1 SHEET NO.</p>

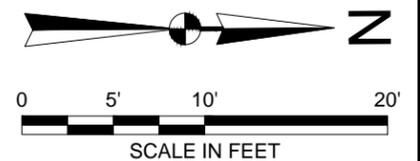
©2014 - GZA GeoEnvironmental, Inc. GZA-J:\162100s\41.0162191.00\Figures\CAD\162191.00\F2_3_4.dwg [2] June 23, 2014 - 3:58pm miguel.torres



LEGEND:

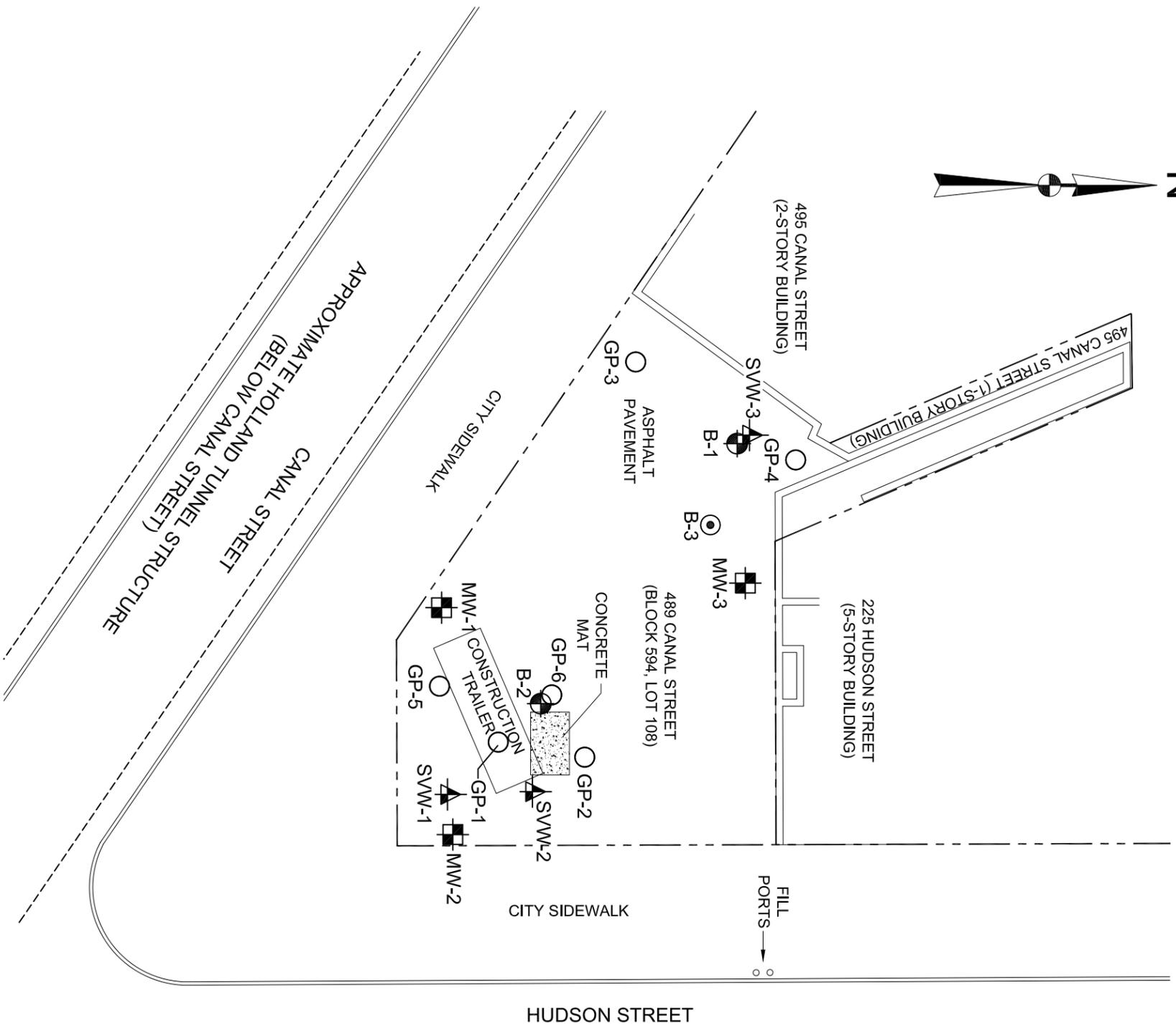
- EXISTING BUILDING
- PROPOSED BUILDING
- LOT LINE

NOTE:
 1) BASE MAP DEVELOPED FROM PLAN PROVIDED BY STEVE WYGODA ARCHITECTS AND PLANNERS, ENTITLED "1ST FLOOR PLAN," DRAWING A-2, ORIGINAL SCALE 3/32"=1'-0".



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489 CANAL STREET NEW YORK, NEW YORK			
PROPOSED REDEVELOPMENT PLAN			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: HSH CONSTRUCTION LLC	
PROJ MGR: AS	REVIEWED BY: AS	CHECKED BY: DSR	FIGURE 2 SHEET NO.
DESIGNED BY: MY	DRAWN BY: MT	SCALE: 1" = 10'	
DATE: JUNE 2014	PROJECT NO. 41.0162191.00	REVISION NO.	



HUDSON STREET

- NOTES:**
- 1) BASE MAP DEVELOPED FROM PLAN PROVIDED BY SOIL MECHANICS DRILLING CORP., ENTITLED "219 HUDSON STREET MANHATTAN, NEW YORK BORING PLAN," DATED MARCH 4, 2013, ORIGINAL SCALE 1" = 20'.
 - 2) THE LOCATION OF THE SITE BORING B-3 IS APPROXIMATELY DETERMINED BY LINE OF SIGHT FROM EXISTING TOPOGRAPHIC FEATURES. THESE DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED. THE LOCATION OF THE HISTORICAL BORINGS BY SOIL MECHANICS WERE TRANSPOSED FROM SOIL MECHANICS BORING PLAN.

- LEGEND:**
- B-1** EXISTING TEST BORING LOCATION (OBSERVED AND DESCRIBED BY SOIL MECHANICS DRILLING CORPORATION IN DECEMBER 2012)
 - GP-4** SOIL SAMPLE LOCATION (OBSERVED AND DESCRIBED BY SOIL MECHANICS DRILLING SERVICES IN JANUARY 2013)
 - SVW-3** SOIL VAPOR SAMPLE LOCATION (OBSERVED AND DESCRIBED BY SOIL MECHANICS DRILLING SERVICES IN JANUARY 2013)
 - MW-3** GROUNDWATER SAMPLE LOCATION (OBSERVED AND DESCRIBED BY SOIL MECHANICS DRILLING CORPORATION IN JANUARY 2013)
 - B-3** TEST BORING LOCATION (TO DEPTH OF 100') (OBSERVED BY GZA IN APRIL 2014)



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489 CANAL STREET
NEW YORK, NEW YORK

SITE MAP AND SAMPLE LOCATIONS

PREPARED BY:		PREPARED FOR:	
GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		HSH CONSTRUCTION LLC	
PROJ.MGR:	AS	REVIEWED BY:	AS
DESIGNED BY:	MY	DRAWN BY:	MT
DATE:	JUNE 2014	PROJECT NO.:	41.0162191.00
		REVISION NO.:	
		CHECKED BY:	DSR
		SCALE:	1" = -20'
		FIGURE	3
		SHEET NO.	

Sample ID	Part 375 UnRestricted Use Soil Cleanup Objectives	Part 375 Residential Use Soil Cleanup Objectives	GP-4/S-1 (0'-2')
Date			1/16/2013
TAL Metals (mg/kg)			
Lead	63	400	1840
Mercury	0.18	0.81	0.88
Zinc	109	2200	286

Sample ID	Part 375 UnRestricted Use Soil Cleanup Objectives	Part 375 Residential Use Soil Cleanup Objectives	GP-3/S-1 (0'-2')	GP-3/S-3 (4'-6')
Date			1/15/2013	1/15/2013
TCL SVOCs (ug/kg)				
Benzo(a)anthracene	1000	1000	1130	~
Chrysene	1000	1000	1340	~
Benzo(b)fluoranthene	1000	1000	1720	~
Benzo(a)pyrene	1000	1000	1300	~
Indeno(1,2,3-cd)pyrene	500	500	955	~
TCL Pesticides (ug/kg)				
4,4'-DDT	0.0033	1.7	0.03	~
TAL Metals (mg/kg)				
Lead	63	400	311	377
Copper	50	270	147	~
Mercury	0.18	0.81	~	3.4
Zinc	109	2200	1350	~

Sample ID	Part 375 UnRestricted Use Soil Cleanup Objectives	Part 375 Residential Use Soil Cleanup Objectives	GP-6/S-3 (4'-6')
Date			1/16/2013
TAL Metals (mg/kg)			
Lead	63	400	675
Cadmium	2.5	2.5	3.35
Mercury	0.18	0.81	0.59
Zinc	109	2200	400

Sample ID	Part 375 UnRestricted Use Soil Cleanup Objectives	Part 375 Residential Use Soil Cleanup Objectives	GP-2/S-1 (0'-2')	GP-2/S-2 (2'-4')
Date			1/12/2013	1/12/2013
TCL Pesticides (ug/kg)				
4,4'-DDE	0.0033	1.8	0.00657	~
TAL Metals (mg/kg)				
Lead	63	400	451	78.9
Mercury	0.18	0.81	~	0.26
Zinc	109	2200	209	~

Sample ID	Part 375 UnRestricted Use Soil Cleanup Objectives	Part 375 Residential Use Soil Cleanup Objectives	GP-1/S-1 (0'-2')	GP-1/S-3 (4'-6')
Date			1/12/2013	1/12/2013
TCL VOCs (ug/kg)				
Ethylbenzene	1000	30000	~	51500
m,p-Xylenes	260	100000	~	6500
o-Xylene	260	100000	~	394
Isopropylbenzene	2000	2000	~	19400
TCL SVOCs (ug/kg)				
Benzo(b)fluoranthene	1000	1000	1080	~
Indeno(1,2,3-cd)pyrene	500	500	549	~
TAL Metals (mg/kg)				
Lead	63	400	198	89.6
Mercury	0.18	0.81	0.38	~
Zinc	109	2200	209	~

Sample ID	Part 375 UnRestricted Use Soil Cleanup Objectives	Part 375 Residential Use Soil Cleanup Objectives	GP-5/S-1 (0'-2')
Date			1/16/2013
TCL VOCs (ug/kg)			
Ethylbenzene	1000	30000	1110
m,p-Xylenes	260	100000	6440
o-Xylene	260	100000	3910
Toluene	700	100000	809
TAL Metals (mg/kg)			
Lead	63	400	588
Mercury	0.18	0.81	0.97
Zinc	109	2200	280

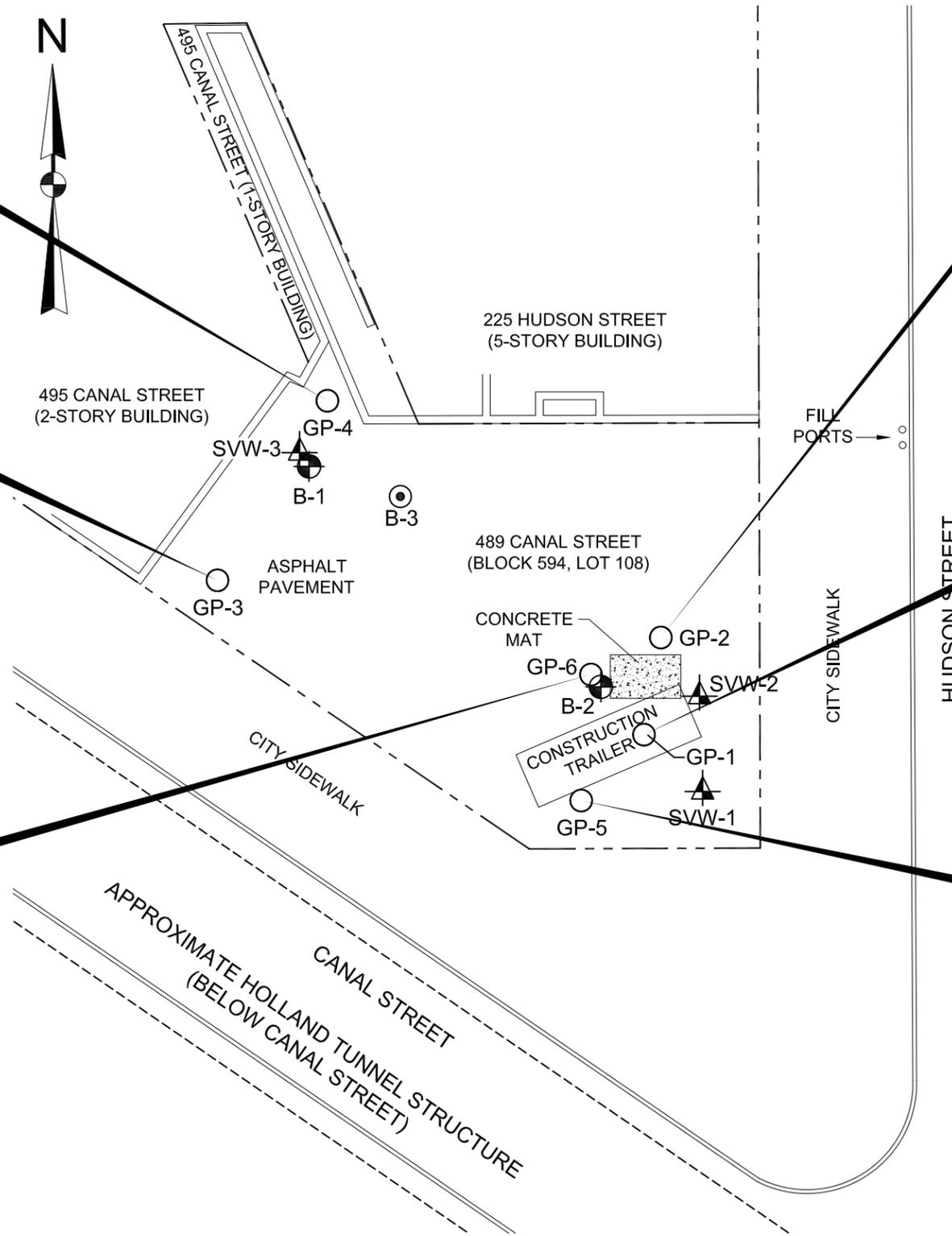
LEGEND:

- VALUE EXCEEDS UNRESTRICTED USE SCOs
- VALUE EXCEEDS BOTH UNRESTRICTED USE AND RESIDENTIAL USE SCOs
- ~ NON-EXCEEDANCE
- mg/kg MILLIGRAMS PER KILOGRAM
- ug/kg MICROGRAMS PER KILOGRAM

- B-1 EXISTING TEST BORING LOCATION (OBSERVED AND DESCRIBED BY SOIL MECHANICS DRILLING CORPORATION IN DECEMBER 2012)
- GP-4 SOIL SAMPLE LOCATION (OBSERVED AND DESCRIBED BY SOIL MECHANICS DRILLING SERVICES IN JANUARY 2013)
- SVW-3 SOIL VAPOR SAMPLE LOCATION (OBSERVED AND DESCRIBED BY SOIL MECHANICS DRILLING SERVICES IN JANUARY 2013)
- B-3 TEST BORING LOCATION (TO DEPTH OF 100') (OBSERVED BY GZA IN APRIL 2014)

NOTES:

- 1) BASE MAP DEVELOPED FROM PLAN PROVIDED BY SOIL MECHANICS DRILLING CORP., ENTITLED "219 HUDSON STREET MANHATTAN, NEW YORK BORING PLAN," DATED MARCH 4, 2013, ORIGINAL SCALE 1" = 20'.
- 2) THE LOCATION OF THE SITE BORING B-3 IS APPROXIMATELY DETERMINED BY LINE OF SIGHT FROM EXISTING TOPOGRAPHIC FEATURES. THESE DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED. THE LOCATION OF THE HISTORICAL BORINGS BY SOIL MECHANICS WERE TRANSPOSED FROM SOIL MECHANICS BORING PLAN.



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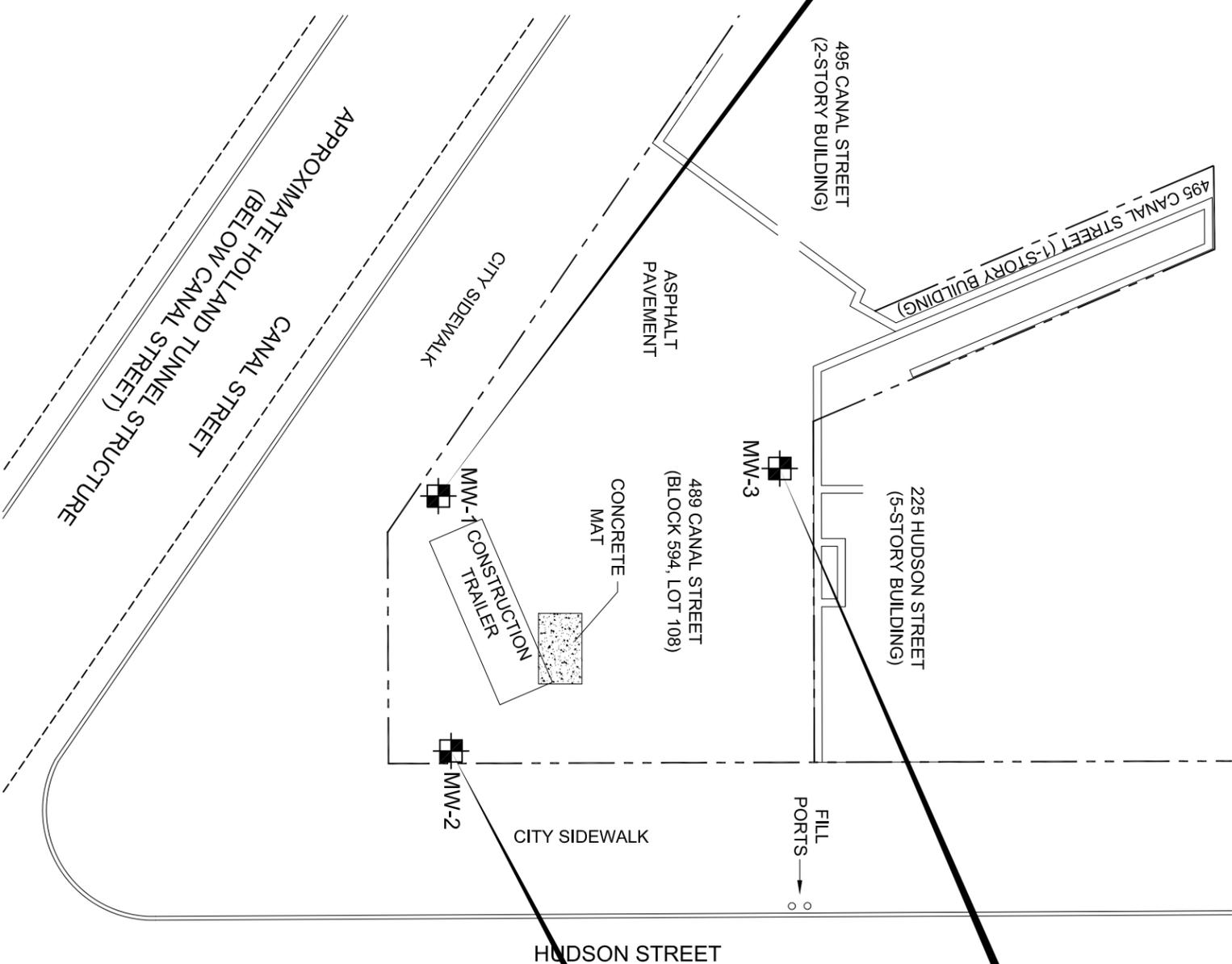
489 CANAL STREET NEW YORK, NEW YORK			
SUMMARY OF SOIL EXCEEDANCES			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: HSH CONSTRUCTION LLC	
PROJ MGR: AS	REVIEWED BY: AS	CHECKED BY: DSR	FIGURE 4 SHEET NO.
DESIGNED BY: MY	DRAWN BY: MT	SCALE: 1" = 20'	
DATE: JUNE 2014	PROJECT NO. 41.0162191.00	REVISION NO.	

Sample ID	New York TOGS 1.1.1 Ambient Water Quality Standards	MW-1
Date		1/24/2013
TCL Volatile Organics (ug/l)		
Acetone	50	66.4
Benzene	1	88.5
Ethylbenzene	5	73.6
Isopropylbenzene	5	141
TCL Semi-Volatile Organics (ug/l)		
Naphthalene	10	836
TAL Metals (filtered) (ug/l)		
Barium	1000	~
Iron	300	11700
Lead, Total	25	~
Sodium, Total	20000	893000
TAL Metals (non-filtered) (ug/l)		
Barium	1000	1440
Iron	300	7350
Lead, Total	25	40
Sodium, Total	20000	489000

Sample ID	New York TOGS 1.1.1 Ambient Water Quality Standards	MW-1
Date		5/12/2014
Volatile Organics by GC/MS (ug/l)		
Toluene	5	39
p/m-Xylene	5	170
o-Xylene	5	17
Benzene	1	170
n-Butylbenzene	5	22
sec-Butylbenzene	5	14
Isopropylbenzene	5	200
Ethylbenzene	5	590
Naphthalene	10	220
1,2,4-Trimethylbenzene	5	17
1,3,5-Trimethylbenzene	5	84
n-Propylbenzene	5	300
Isopropyltoluene	5	13
Semi-Volatile Organics by GC/MS (ug/l)		
Bis(2-Ethylhexyl)phthalate	5	9.1
Naphthalene	10	150
Pentachlorophenol	1	4.7
Dissolved Metals (ug/l)		
Antimony, Dissolved	3	6.01
Iron, Dissolved	300	12100
Sodium, Dissolved	20000	614000
Magnesium, Dissolved	35000	69300
Manganese, Dissolved	300	1962
Total Metals (ug/l)		
Iron, Total	300	12000
Sodium, Total	20000	578000
Magnesium, Total	35000	63100
Manganese, Total	300	1902

LEGEND:
 VALUE EXCEEDS UNRESTRICTED USE TOGS 1.1.1 AMBIENT WATER QUALITY STANDARDS
 ~ NON-EXCEEDANCE
 ug/l MICROGRAM PER LITER

MW-3 GROUNDWATER SAMPLE LOCATION
 DRILLING CORPORATION IN JANUARY 2013



NOTES:
 1) BASE MAP DEVELOPED FROM PLAN PROVIDED BY SOIL MECHANICS DRILLING CORP., ENTITLED "219 HUDSON STREET MANHATTAN, NEW YORK BORING PLAN," DATED MARCH 4, 2013, ORIGINAL SCALE 1" = 20'.
 2) THE LOCATION OF THE GROUNDWATER SAMPLES ARE APPROXIMATELY DETERMINED BY LINE OF SIGHT FROM EXISTING TOPOGRAPHIC FEATURES. THESE DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED. THE LOCATION OF THE HISTORICAL BORINGS BY SOIL MECHANICS WERE TRANSDPOSED FROM SOIL MECHANICS BORING PLAN.
 3) SAMPLES COLLECTED ON 5/12/2014 WERE COLLECTED BY GZA.

Sample ID	New York TOGS 1.1.1 Ambient Water Quality Standards	MW-3
Date		1/24/2013
TAL Metals (filtered) (ug/l)		
Barium	1000	1090
Iron	300	17300
Lead, Total	25	~
Sodium, Total	20000	554000
TAL Metals (non-filtered) (ug/l)		
Barium	1000	1110
Iron	300	9560
Lead, Total	25	~
Sodium, Total	20000	578000

Sample ID	New York TOGS 1.1.1 Ambient Water Quality Standards	MW-2
Date		1/24/2013
TCL Volatile Organics (ug/l)		
Acetone	50	~
Benzene	1	4.74
Ethylbenzene	5	~
Isopropylbenzene	5	~
TCL Semi-Volatile Organics (ug/l)		
Naphthalene	10	16.5
TAL Metals (filtered) (ug/l)		
Barium	1000	1610
Iron	300	17300
Lead, Total	25	75
Sodium, Total	20000	497000
TAL Metals (non-filtered) (ug/l)		
Barium	1000	~
Iron	300	3190
Lead, Total	25	~
Sodium, Total	20000	987000

Sample ID	New York TOGS 1.1.1 Ambient Water Quality Standards	MW-2
Date		5/12/2014
Dissolved Metals (ug/l)		
Iron, Dissolved	300	1040
Sodium, Dissolved	20000	530000
Total Metals (ug/l)		
Iron, Total	300	1760
Sodium, Total	20000	507000



489 CANAL STREET
 NEW YORK, NEW YORK

SUMMARY OF GROUNDWATER EXCEEDANCES

PREPARED BY:	AS	REVIEWED BY:	AS	CHECKED BY:	DSR
DESIGNED BY:	MT	DRAWN BY:	MT	SCALE:	1" = -20'
DATE:	JUNE 2014	PROJECT NO.:	41.0162191.00	REVISION NO.:	

GZA GeoEnvironmental, Inc.
 Engineers and Scientists
 www.gza.com

PREPARED FOR:
 HSH CONSTRUCTION LLC

FIGURE
5

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TABLES



Table 1
Soil Mechanics Environmental Services
Soil Vapor Sampling Analytical Data Summary

Table #1
Soil Vapor Analytical Results
EPA Method TO-15

EPA Method TO-15 Perimeters	SVW-1	SVW-2	SVW-3	NYSDOH Background Standards(1) Indoor(2)
1,1,1-Trichloroethane	ND	ND	ND	-
1,1,2,2-Tetrachloroethane	ND	ND	ND	-
1,1,2-Trichloroethane	ND	ND	ND	-
1,1-Dichloroethane	ND	ND	ND	-
1,1-Dichloroethene	ND	ND	ND	-
1,2,4-Trichlorobenzene	ND	ND	ND	-
1,2,4-Trimethylbenzene	1.4	1.7	2.1	0.69 - 4.3
1,2-Dibromoethane	ND	ND	ND	-
1,2-Dichlorobenzene	ND	ND	ND	-
1,2-Dichloroethane	ND	ND	ND	-
1,2-Dichloropropane	ND	ND	ND	-
1,3,5-Trimethylbenzene	ND	ND	0.55	0.27 - 1.7
1,3-butadiene	ND	ND	ND	-
1,3-Dichlorobenzene	ND	ND	ND	-
1,4-Dichlorobenzene	ND	ND	ND	-
1,4-Dioxane	ND	ND	ND	-
2,2,4-trimethylpentane	2.2	1.3	0.57	NS
4-ethyltoluene	0.50	0.50	0.60	NS
Acetone	6.9	36	16	10.0-52.0
Allyl chloride	ND	ND	ND	-
Benzene	5.6	2.1	1.4	1.1-5.9
Benzyl chloride	ND	ND	ND	-
Bromodichloromethane	ND	ND	ND	-
Bromoform	ND	ND	ND	-
Bromomethane	ND	ND	ND	-
Carbon disulfide	0.41	4.3	ND	NS
Carbon tetrachloride	ND	ND	ND	-
Chlorobenzene	ND	ND	ND	-
Chloroethane	ND	ND	ND	-
Chloroform	ND	ND	ND	-
Chloromethane	ND	ND	ND	-
cis-1,2-Dichloroethene	ND	ND	ND	-
cis-1,3-Dichloropropene	ND	ND	ND	-
Cyclohexane	3.3	3.3	1.7	<0.25-2.6
Dibromochloromethane	ND	ND	ND	-
Ethyl acetate	ND	ND	ND	-
Ethyl benzene	0.84	0.88	0.75	0.41-2.8
Freon 11	1.1	1.1	1.1	NS
Freon 113	ND	1.0	ND	NS
Freon 114	ND	ND	ND	NS
Freon 12	2.5	2.6	2.7	NS
Heptane	1.6	2.2	1.4	1.0-7.6
Hexachloro-1,3-butadiene	ND	ND	ND	-
Hexane	2.4	2.6	1.0	0.6-5.9
Isopropyl alcohol	ND	2.0	ND	-
m&p-Xylene	3.0	3.1	2.7	0.5-4.6
Methyl Butyl Ketone	ND	ND	ND	-
Methyl Ethyl Ketone	2.8	3.6	5.2	1.4-7.3
Methyl Isobutyl Ketone	ND	1.4	ND	<0.25-0.9
Methyl tert-butyl ether	ND	ND	ND	-
Methylene chloride	0.56	1.2	0.49	0.3-6.6
o-Xylene	0.84	0.93	0.88	0.4-3.1
Propylene	ND	ND	ND	-
Styrene	ND	ND	ND	-
Tetrachloroethylene	ND	ND	ND	-
Tetrahydrofuran	ND	ND	ND	-
Toluene	4.8	5.4	3.2	3.5-25.0
trans-1,2-Dichloroethene	ND	ND	ND	-
trans-1,3-Dichloropropene	ND	ND	ND	-
Trichloroethene	ND	ND	ND	-
Vinyl acetate	ND	ND	ND	-
Vinyl Bromide	ND	ND	ND	-
Vinyl chloride	ND	ND	ND	-
Helium	ND	ND	ND	-

1 Summary of Indoor and Outdoor Levels of Volatile Organic Compounds From Fuel Oil Heated Homes in NYS, 1997 to 2003. Unpublished. New York State Department of Health, Bureau of Toxic Substance Assessment.

2 The ranges provided in the table represent the 25th percentile to 75th percentile, (middle half), of the results and are labeled as background. A single value is the minimum reporting limit for that compound, and indicates that more than 75% of the data are below the detection limit. This database is comprised of air testing results from homes where there were no known sources of chemicals or chemical spills.

ND – Not Detected at concentration exceeding laboratory reporting limit

NS – No Standard

All reported values are in microgram per cubic meter (mcg/m³)

Bolded/shaded values represent concentration exceeding NYSDOH Background Standards

Sampling date: 1/22/13 (light snow, 27°F, 30.0 inches Hg)



Table 2
Soil Mechanics Environmental Services
Soil Sampling Analytical Data Summary

Table #2
Soil Analytical Results
TAL Metals and TCL Organics

Perimeters	GP-1/ S-1	GP-1/ S-3	GP-2/ S-1	GP-2/ S-2	GP-3/ S-1	GP-3/ S-3	GP-4/ S-1***	GP-5/ S-1***	GP-6/S- 3***	UUSCO	RUSCO- R
Sample Depth	0.0'- 2.0'	4.0'- 6.0'	0.0'- 2.0'	2.0'- 4.0'	0.0'- 2.0'	4.0'- 6.0'	0.0'- 2.0'	0.0'- 2.0'	4.0'- 6.0'	-	-
TAL Metals (mg/kg)	-	-	-	-	-	-	-	-	-	-	-
Aluminum	4480	4760	6210	7160	6630	6050	7580	6110	6030	NS	NS
Antimony	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.67	<1.65	-	-
Arsenic	4.13	1.90	2.28	2.01	5.89	4.83	4.06	2.87	2.81	13.0	16.0
Barium	72.1	40.0	150	99.9	182	106	321	250	208	350.0	350.0
Beryllium	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.67	<1.65	-	-
Cadmium	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1.40	3.35	2.5	2.5
Calcium	25900	12800	37500	53900	16900	2250	42200	34200	37000	NS	NS
Chromium +3	8.47	11.1	10.3	11.4	28.7	15.2	15.4	13.9	14.7	30.0	36.0
Cobalt	3.13	3.95	3.29	3.61	8.88	4.56	4.96	4.22	4.40	NS	NS
Copper	27.9	13.2	34.9	10.8	147	42.3	33.2	26.0	21.3	50.0	270.0
Cyanide	<0.12	0.12	<0.12	<0.12	0.24	0.12	<0.12	0.16	0.13	27.0	27.0
Iron	7800	8420	9830	10300	17100	9770	11800	11100	11000	NS	NS
Lead	198	89.6	451	78.9	311	377	1840	588	675	63.0	400.0
Magnesium	2020	4140	8160	19300	4970	2320	10800	5730	7730	NS	NS
Manganese	169	110	762	645	227	344	273	358	449	1600.0	2000.0
Mercury	0.38	0.03	0.13	0.26	0.18	3.40	0.88	0.97	0.59	0.18	0.81
Nickel	8.72	13.0	10.6	10.6	21.2	15.9	14.6	12.7	13.4	30.0	140.0
Potassium	964	1010	969	1490	867	953	1720	1580	1720	NS	NS
Selenium	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.67	<1.65	-	-
Silver	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.67	<1.65	-	-
Sodium	621	144	635	403	504	609	884	953	1280	-	-
Thallium	1.66	<1.65	2.02	3.30	<1.65	<1.65	1.83	2.42	2.21	NS	NS
Vanadium	12.5	19.0	10.6	16.0	22.9	12.4	15.8	15.8	17.5	NS	NS
Zinc	209	47.1	452	79.1	1350	81.4	286	280	400	109.0	2200.0
TCL-Pesticides (ug/kg)	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Heptachlor	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Aldrin	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Heptachlor Epoxide	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
trans-Chlordane	<5.88	<5.56	<5.84	<5.76	6.06	<5.52	<5.91	<6.28	<5.78	NS	NS
cis-Chlordane (alpha)	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
4,4'-DDE	<5.88	<5.56	6.57	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	3.3	1800.0
Endosulfan I	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Dieldrin	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Endrin	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
4,4'-DDD	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Endosulfan II	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
4,4'-DDT	<5.88	<5.56	<5.84	<5.76	30.0	<5.52	<5.91	<6.28	<5.78	3.3	1700.0
Endrin Aldehyde	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Methoxychlor	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Endosulfan Sulfate	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Endrin Ketone	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Toxaphene	<11	<111	<117	<115	<112	<110	<118	<126	<116	-	-
Chlordane	<16.7	<16.7	<17.5	<17.3	<16.8	<16.6	<17.7	<18.8	<17.3	-	-
alpha-BHC	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	7.18	<5.78	20.0	97.0
gamma-BHC	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
beta-BHC	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
TCL-PCBs (ug/kg)	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
Aroclor-1260	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
Aroclor-1221	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
Aroclor-1232	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
Aroclor-1242	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
Aroclor-1248	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
Aroclor-1016	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
Aroclor-1254	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
Aroclor-1262	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
TCL-VOCs (ug/kg)	*	*	-	-	*	-	-	*	-	-	-
Acetone	<11.8	<556	<11.7	<11.5	<11.2	<11.0	<11.8	<251	<11.6	-	-
1,1-Dichloroethylene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Methyl Acetate	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Methylene Chloride	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Carbon disulfide	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Methyl-tert-Butyl Ether	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
trans-1,2-Dichloroethylene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Dichlorodifluoromethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,1-Dichloroethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Methyl Ethyl Ketone (2-Butanone)	<11.8	<556	<11.7	<11.5	<11.2	<11.0	<11.8	<251	<11.6	-	-
cis-1,2-Dichloroethylene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Bromochloromethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Chloroform	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,1,1-Trichloroethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,2-Dichloroethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Carbon Tetrachloride	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-

Table #2 (continued)
Soil Analytical Results
TAL Metals and TCL Organics

Perimeters	GP-1/ S-1	GP-1/ S-3	GP-2/ S-1	GP-2/ S-2	GP-3/ S-1	GP-3/ S-3	GP-4/ S-1***	GP-5/ S-1***	GP-6/ S-3***	UUSCO	RUSCO- R
Sample Depth	0.0'- 2.0'	4.0'- 6.0'	0.0'- 2.0'	2.0'- 4.0'	0.0'- 2.0'	4.0'- 6.0'	0.0'- 2.0'	0.0'- 2.0'	4.0'- 6.0'	-	-
Benzene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Trichloroethylene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,2-Dichloropropane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,4-Dioxane	<5.88	<2780	<58.4	<57.6	<55.9	<55.2	<59.1	<1260	<57.8	-	-
Bromodichloromethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Chloromethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Methyl Isobutyl Ketone	<11.8	<556	<11.7	<11.5	<11.2	<11.0	<11.8	<251	<11.6	-	-
cis-1,3-Dichloropropylene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Toluene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	809	<5.78	700.0	100000.0
trans-1,3-Dichloropropylene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,1,2-Trichloroethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Methyl Butyl Ketone (2-Hexanone)	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Dibromochloromethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Tetrachloroethylene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Vinyl chloride	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,2-Dibromoethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Chlorobenzene	<29.4	<278	<5.84	<5.76	<28.0	<5.52	<5.91	<126	<5.78	-	-
Ethylbenzene	<29.4	51500	<5.84	<5.76	<28.0	<5.52	<5.91	1110	<5.78	1000.0	30000.0
m,p-Xylenes	<58.8	6500	<11.7	<11.5	<55.9	<11.0	<11.8	6440	<11.6	260.0	100000.0
Styrene	<29.4	<278	<5.84	<5.76	<28.0	<5.52	<5.91	<126	<5.78	-	-
o-Xylene	29.4	394	<5.84	<5.76	<28.0	<5.52	<5.91	3910	<5.78	260.0	100000.0
Bromoform	<29.4	<278	<5.84	<5.76	<28.0	<5.52	<5.91	<126	<5.78	-	-
1,1,2,2-Tetrachloroethane	<29.4	<278	<5.84	<5.76	<28.0	<5.52	<5.91	<126	<5.78	-	-
Bromomethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Isopropylbenzene (Cumene)	<29.4	19400	<5.84	<5.76	<28.0	<5.52	<5.91	173	<5.78	2000.0**	2000.0**
Chloroethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,3-Dichlorobenzene	<147	<278	<5.84	<5.76	<55.9	<5.52	<5.91	<126	<5.78	-	-
1,4-Dichlorobenzene	<147	<278	<5.84	<5.76	<55.9	<5.52	<5.91	<126	<5.78	-	-
1,2-Dichlorobenzene	<147	<278	<5.84	<5.76	<55.9	<5.52	<5.91	<126	<5.78	-	-
Trichlorofluoromethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,2-Dibromo-3-chloropropane	<147	<278	<5.84	<5.76	<55.9	<5.52	<5.91	<126	<5.78	-	-
1,2,4-Trichlorobenzene	<147	<278	<5.84	<5.76	<55.9	<5.52	<5.91	<126	<5.78	-	-
1,2,3-Trichlorobenzene	<147	<278	<5.84	<5.76	<55.9	<5.52	<5.91	<126	<5.78	-	-
TCL-SVOCs (ug/kg)	-	-	-	*	*	-	*	*	-	-	-
1,1-Biphenyl	<141	<133	<140	<1380	<1340	<133	<142	<151	<139	-	-
1,2-Diphenylhydrazine	<77.6	<73.4	<77.1	<761	<739	<72.9	<78.0	<82.8	<76.3	-	-
Atrazine	<77.6	<73.4	<77.1	<761	<739	<72.9	<78.0	<82.8	<76.3	-	-
Benzaldehyde	<77.6	<73.4	<77.1	<761	<739	<72.9	<78.0	<82.8	<76.3	-	-
Acetophenone	<106	<100	<105	<1040	<1010	<99.4	<106	<113	<104	-	-
Caprolactam	<176	<167	<175	<1730	<1680	<166	<177	<188	<173	-	-
2-Methylphenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Bis(2-chloroisopropyl)ether	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Hexachloroethane	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
3/4-Methylphenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
N-Nitroso-di-n-propylamine	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Nitrobenzene	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Isophorone	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
2-Nitrophenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
2,4-Dimethylphenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
bis(2-Chloroethoxy)methane	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
2,4-Dichlorophenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Naphthalene	<47.0	272	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	12000.0	100000.0
4-Chloroaniline	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Hexachlorobutadiene	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
4-Chloro-3-methylphenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
2-Methylnaphthalene	<47.0	449	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	NS	NS
Hexachlorocyclopentadiene	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
2,4,6-Trichlorophenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
2,4,5-Trichlorophenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
2-Chloronaphthalene	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
2-Nitroaniline	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Dimethyl phthalate	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Acenaphthylene	61.1	<44.5	86.5	<461	<448	<44.2	<94.6	<100	<46.2	100000.0	100000.0
2,6-Dinitrotoluene	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
3-Nitroaniline	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Acenaphthene	112	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	20000.0	100000.0
2,4-Dinitrophenol	<159	<150	<158	<1560	<1510	<149	<319	<339	<156	-	-
Dibenzofuran	56.4	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	7000.0	14000.0
4-Nitrophenol	<159	<150	<158	<1560	<1510	<149	<319	<339	<156	-	-
2,4-Dinitrotoluene	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Fluorene	82.3	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	30000.0	100000.0
Diethyl phthalate	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
4-Chlorophenyl phenyl ether	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
4-Nitroaniline	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
4,6-Dinitro-2-methylphenol	<159	<150	<158	<1560	<1510	<149	<319	<339	<156	-	-

Table #2 (continued)
Soil Analytical Results
TAL Metals and TCL Organics

Perimeters	GP-1/ S-1	GP-1/ S-3	GP-2/ S-1	GP-2/ S-2	GP-3/ S-1	GP-3/ S-3	GP-4/ S-1***	GP-5/ S-1***	GP-6/ S-3***	UUSCO	RUSCO-R
Sample Depth	0.0'-2.0'	4.0'-6.0'	0.0'-2.0'	2.0'-4.0'	0.0'-2.0'	4.0'-6.0'	0.0'-2.0'	0.0'-2.0'	4.0'-6.0'	-	-
N-Nitrosodiphenylamine	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
4-Bromophenyl phenyl ether	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Hexachlorobenzene	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Phenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Pentachlorophenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Phenanthrene	1270	112	<46.7	<461	1010	111	<94.6	<100	<46.2	100000.0	100000.0
Anthracene	303	<44.5	58.4	<461	<448	<44.2	<94.6	<100	<46.2	100000.0	100000.0
Carbazole	84.6	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	NS	NS
Di-n-butyl phthalate	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Fluoranthene	1850	<44.5	155	<461	2280	294	153	<100	<46.2	100000.0	100000.0
Pyrene	1610	<44.5	144	<461	1920	241	126	<100	<46.2	100000.0	100000.0
Butyl benzyl phthalate	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Benzo(a)anthracene	782	<44.5	111	<461	1130	109	<94.6	<100	<46.2	1000.0	1000.0
Chrysene	815	<44.5	112	<461	1340	179	136	<100	<46.2	1000.0	1000.0
3,3'-Dichlorobenzidine	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Bis(2-Ethylhexyl)phthalate	<47.0	113	72.5	<461	<448	<44.2	624	248	88.6	NS	NS
Di-n-octyl phthalate	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Benzo(b)fluoranthene	1080	<44.5	239	<461	1720	214	178	152	55.5	1000.0	1000.0
Benzo(k)fluoranthene	396	<44.5	81.0	<461	<448	69.2	<94.6	<100	<46.2	800.0	1000.0
2-Chlorophenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Benzo(a)pyrene	839	<44.5	214	<461	1300	127	136	115	49.3	1000.0	1000.0
Indeno(1,2,3-cd)pyrene	549	<44.5	372	<461	955	107	118	115	67.8	500.0	500.0
Dibenzo(a,h)anthracene	134	<44.5	67.8	<461	<448	<44.2	<94.6	<100	<46.2	330.0	330.0
Benzo(g,h,i)perylene	629	<44.5	503	<461	888	116	131	139	112	100000.0	100000.0
Bis(2-Chloroethyl)ether	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-

UUSCO Unrestricted Use Soil Cleanup Objective from NYSDEC 6NYCRR part 375
RUSCO-R Restricted Use Soil Cleanup Objective (Residential) from NYSDEC 6NYCRR part 375
Bold/Shade Detected concentration exceeds UUSCO from NYSDEC 6NYCRR part 375
Bold/Shade/Red Detected concentration exceeds RUSCO-R from NYSDEC 6NYCRR part 375
- Not Applicable
NS No Standard
* Laboratory minimum detection limits raised due to matrix interference
** Soil Cleanup Objective from NYSDEC CP-51
*** Due to poor sample recovery, no supplemental or second sample was submitted for laboratory analysis from this boring locations

Table #2a
Soil Analytical Results
TCLP Selected Metal Constituents

TCLP Metals	GP-2/ S-1		GP-3/ S-3		GP-4/ S-1		GP-5/ S-1		GP-6/ S-3		Hazardous Waste Regulatory Levels for Toxicity Characteristic
	Sample Depth	0.0'-2.0'	4.0'-6.0'		0.0'-2.0'		0.0'-2.0'		4.0'-6.0'		
-	Total (mg/kg)	TCLP (mg/L)	-								
Cadmium	-	-	-	-	-	-	-	-	3.35	0.03	1.0
Lead	451.0	<0.02	-	-	1840.0	0.08	588.0	<0.02	675.0	0.1	5.0
Mercury	-	-	3.40	<0.02	0.88	<0.02	0.97	<0.02	-	-	0.2

- Not Applicable



Table 3
Soil Mechanics Environmental Services
Groundwater Sampling Analytical Data Summary

Table #3
Aqueous Analytical Results
TAL Metals (filtered and non-filtered) and TCL Organics

Perimeters	MW-1		MW-2		MW-3		Groundwater Standard/Criteria
	F	NF	F	NF	F	NF	
TAL Metals (mg/L)							-
Silver	<0.005	<0.05	<0.005	<0.05	<0.005	<0.05	-
Aluminum	3.50	<0.05	2.16	0.10	1.13	0.13	NS
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Barium	0.62	1.44	1.61	<1.00	1.09	1.11	1.0
Beryllium	<0.01	<0.05	<0.01	<0.05	<0.01	<0.05	-
Calcium	454	343	369	441	277	273	NS
Cadmium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Cobalt	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Chromium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Copper	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Iron	11.7	7.35	17.3	3.19	17.3	9.56	0.3
Potassium	58.6	25.2	25.6	42.0	44.5	49.4	NS
Magnesium	174	150	153	178	71.9	78.0	35.0
Manganese	4.53	2.34	2.47	4.60	3.99	4.19	0.3
Sodium	893	489	497	987	554	578	20.0
Nickel	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	-
Lead	0.019	0.04	0.075	0.007	<0.015	<0.005	0.025
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Thallium	<0.50	<0.05	<0.50	<0.05	<0.50	<0.05	-
Vanadium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Zinc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Mercury	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-
TCL-Pesticides (ug/L)							-
delta-BHC	<2.00		<2.00		<2.00		-
Heptachlor	<2.00		<2.00		<2.00		-
Aldrin	<2.00		<2.00		<2.00		-
Heptachlor Epoxide	<2.00		<2.00		<2.00		-
trans-Chlordane	<2.00		<2.00		<2.00		-
cis-Chlordane	<2.00		<2.00		<2.00		-
4,4'-DDE	<2.00		<2.00		<2.00		-
Endosulfan I	<2.00		<2.00		<2.00		-
Dieldrin	<2.00		<2.00		<2.00		-
Endrin	<2.00		<2.00		<2.00		-
4,4'-DDD	<2.00		<2.00		<2.00		-
Endosulfan II	<2.00		<2.00		<2.00		-
4,4'-DDT	<2.00		<2.00		<2.00		-
Endrin Aldehyde	<2.00		<2.00		<2.00		-
Methoxychlor	<2.00		<2.00		<2.00		-
Endosulfan Sulfate	<2.00		<2.00		<2.00		-
Endrin Ketone	<2.00		<2.00		<2.00		-
Toxaphene	<2.00		<2.00		<2.00		-
Chlordane	<2.00		<2.00		<2.00		-
alpha-BHC	<2.00		<2.00		<2.00		-
gamma-BHC	<2.00		<2.00		<2.00		-
beta-BHC	<2.00		<2.00		<2.00		-
TCL-PCBs (ug/L)							-
Aroclor-1260	<0.500		<0.500		<0.500		-
Aroclor-1254	<0.500		<0.500		<0.500		-
Aroclor-1242	<0.500		<0.500		<0.500		-
Aroclor-1248	<0.500		<0.500		<0.500		-
Aroclor-1221	<0.500		<0.500		<0.500		-
Aroclor-1016	<0.500		<0.500		<0.500		-
Aroclor-1232	<0.500		<0.500		<0.500		-
TCL-VOCs (ug/L)							-
Acetone	66.4		<10.0		<10.0		50.0
1,1-Dichloroethylene	<25.0		<5.00		<5.00		-
1,1,2-Trichloro-1,2,2-trifluoroethane	<25.0		<5.00		<5.00		-
Methyl Acetate	<25.0		<5.00		<5.00		-
1,1,1-Trichloroethane	<25.0		<5.00		<5.00		-
Methylene Chloride	<25.0		<5.00		<5.00		-
Carbon disulfide	<25.0		<5.00		<5.00		-
Methyl-tert-Butyl Ether	<25.0		<5.00		<5.00		-
Dichlorodifluoromethane	<25.0		<5.00		<5.00		-
trans-1,2-Dichloroethylene	<25.0		<5.00		<5.00		-
1,1-Dichloroethane	<25.0		<5.00		<5.00		-
Methyl Ethyl Ketone (2-Butanone)	<25.0		<5.00		<5.00		-
cis-1,2-Dichloroethylene	<25.0		<5.00		<5.00		-
Bromochloromethane	<25.0		<5.00		<5.00		-
Chloroform	<25.0		<5.00		<5.00		-
1,2-Dichloroethane	<25.0		<5.00		<5.00		-
Carbon Tetrachloride	<25.0		<5.00		<5.00		-
Benzene	88.5		4.74		<0.700		1.0
Trichloroethylene	<25.0		<5.00		<5.00		-
1,2-Dichloropropane	<25.0		<5.00		<5.00		-
Bromodichloromethane	<25.0		<5.00		<5.00		-
Chloromethane	<25.0		<5.00		<5.00		-
Methyl Isobutyl Ketone	<25.0		<5.00		<5.00		-
cis-1,3-Dichloropropylene	<25.0		<5.00		<5.00		-
Toluene	<25.0		<5.00		<5.00		-

Table #3 (continued)
Aqueous Analytical Results
TAL Metals (filtered and non-filtered) and TCL Organics

Perimeters	MW-1	MW-2	MW-3	Groundwater Standard/Criteria
trans-1,3-Dichloropropylene	<25.0	<5.00	<5.00	-
1,1,2-Trichloroethane	<25.0	<5.00	<5.00	-
Methyl Butyl Ketone (2-Hexanone)	<25.0	<5.00	<5.00	-
Dibromochloromethane	<25.0	<5.00	<5.00	-
Tetrachloroethylene	<25.0	<5.00	<5.00	-
Vinyl chloride	<25.0	<5.00	<5.00	-
1,2-Dibromoethane	<25.0	<5.00	<5.00	-
Chlorobenzene	<25.0	<5.00	<5.00	5.0
Ethylbenzene	73.6	<5.00	<5.00	-
m,p-Xylenes	<50.0	<10.0	<10.0	-
Styrene	<25.0	<5.00	<5.00	-
o-Xylene	<25.0	<5.00	<5.00	-
Bromoform	<25.0	<5.00	<5.00	-
1,1,2,2-Tetrachloroethane	<25.0	<5.00	<5.00	-
Bromomethane	<25.0	<5.00	<5.00	5.0
Isopropylbenzene (Cumene)	141	<5.00	<5.00	-
Chloroethane	<25.0	<5.00	<5.00	-
1,3-Dichlorobenzene	<25.0	<5.00	<5.00	-
1,4-Dichlorobenzene	<25.0	<5.00	<5.00	-
1,2-Dichlorobenzene	<25.0	<5.00	<5.00	-
Trichlorofluoromethane	<25.0	<5.00	<5.00	-
1,2-Dibromo-3-chloropropane	<25.0	<5.00	<5.00	-
1,2,4-Trichlorobenzene	<25.0	<5.00	<5.00	-
1,2,3-Trichlorobenzene	<25.0	<5.00	<5.00	-
TCL-SVOCs (ug/L)	-	-	-	-
1,1-Biphenyl	<2.00	<2.00	<2.00	-
1,2-Diphenylhydrazine	<2.00	<2.00	<2.00	-
Atrazine	<2.00	<2.00	<2.00	-
Benzaldehyde	<2.00	<2.00	<2.00	-
Acetophenone	<2.00	<2.00	<2.00	-
Caprolactam	<5.00	<5.00	<5.00	-
2-Methylphenol	<5.00	<5.00	<5.00	-
Bis(2-chloroisopropyl)ether	<5.00	<5.00	<5.00	-
Hexachloroethane	<5.00	<5.00	<5.00	-
3/4-Methylphenol	<5.00	<5.00	<5.00	-
N-Nitroso-di-n-propylamine	<5.00	<5.00	<5.00	-
Nitrobenzene	<5.00	<5.00	<5.00	-
Isophorone	<5.00	<5.00	<5.00	-
2-Nitrophenol	<5.00	<5.00	<5.00	-
2,4-Dimethylphenol	<5.00	<5.00	<5.00	-
bis(2-Chloroethoxy)methane	<5.00	<5.00	<5.00	-
2,4-Dichlorophenol	836	16.5	<5.00	10.0
Naphthalene	<5.00	<5.00	<5.00	-
4-Chloroaniline	<5.00	<5.00	<5.00	-
Hexachlorobutadiene	<5.00	<5.00	<5.00	-
4-Chloro-3-methylphenol	<5.00	<5.00	<5.00	NS
2-Methylnaphthalene	876	15.4	<5.00	-
Hexachlorocyclopentadiene	<5.00	<5.00	<5.00	-
2,4,6-Trichlorophenol	<5.00	<5.00	<5.00	-
2,4,5-Trichlorophenol	<5.00	<5.00	<5.00	-
2-Chloronaphthalene	<5.00	<5.00	<5.00	-
2-Nitroaniline	<5.00	<5.00	<5.00	-
Dimethyl phthalate	<5.00	<5.00	<5.00	-
Acenaphthylene	<5.00	<5.00	<5.00	-
2,6-Dinitrotoluene	<5.00	<5.00	<5.00	-
3-Nitroaniline	<5.00	<5.00	<5.00	20.0
Acenaphthene	7.44	<5.00	<5.00	-
2,4-Dinitrophenol	<5.00	<5.00	<5.00	-
Dibenzofuran	<5.00	<5.00	<5.00	-
4-Nitrophenol	<5.00	<5.00	<5.00	-
2,4-Dinitrotoluene	<5.00	<5.00	<5.00	50.0
Fluorene	8.72	<5.00	<5.00	-
Diethyl phthalate	<5.00	<5.00	<5.00	-
4-Chlorophenyl phenyl ether	<5.00	<5.00	<5.00	-
4-Nitroaniline	<5.00	<5.00	<5.00	-
4,6-Dinitro-2-methylphenol	<5.00	<5.00	<5.00	-
N-Nitrosodiphenylamine	<5.00	<5.00	<5.00	-
4-Bromophenyl phenyl ether	<5.00	<5.00	<5.00	-
Hexachlorobenzene	<5.00	<5.00	<5.00	-
Phenol	<5.00	<5.00	<5.00	-
Pentachlorophenol	<5.00	<5.00	<5.00	50.0
Phenanthrene	21.6	<5.00	<5.00	-
Anthracene	<5.00	<5.00	<5.00	-
Carbazole	<5.00	<5.00	<5.00	-
Di-n-butyl phthalate	<5.00	<5.00	<5.00	50.0
Fluoranthene	9.56	<5.00	<5.00	50.0
Pyrene	10.6	<5.00	<5.00	-
Butyl benzyl phthalate	<5.00	<5.00	<5.00	-
Benzo(a)anthracene	<5.00	<5.00	<5.00	-
Chrysene	<5.00	<5.00	<5.00	-
3,3'-Dichlorobenzidine	<5.00	<5.00	<5.00	-

Table #3 (continued)
Aqueous Analytical Results
TAL Metals (filtered and non-filtered) and TCL Organics

Perimeters	MW-1	MW-2	MW-3	Groundwater Standard/Criteria
Bis(2-Ethylhexyl)phthalate	<5.00	<5.00	<5.00	-
Di-n-octyl phthalate	<5.00	<5.00	<5.00	-
Benzo(b)fluoranthene	<5.00	<5.00	<5.00	-
Benzo(k)fluoranthene	<5.00	<5.00	<5.00	-
2-Chlorophenol	<5.00	<5.00	<5.00	-
Benzo(a)pyrene	<5.00	<5.00	<5.00	-
Indeno(1,2,3-cd)pyrene	<5.00	<5.00	<5.00	-
Dibenzo(a,h)anthracene	<5.00	<5.00	<5.00	-
Benzo(g,h,i)perylene	<5.00	<5.00	<5.00	-
Bis(2-Chloroethyl)ether	<5.00	<5.00	<5.00	-

F Filtered
 NF Non-Filtered
 - Not Applicable
 Standard/Criteria NYSDEC 6NYCRR part 703 or NYSDEC TOG 1.1.1

Table 4 - GZA GeoEnvironmental Groundwater Analytical Results

489 Canal Street
New York, NY

LOCATION: 489 Canal Street		New York TOGS 1.1.1 Ambient Water Quality Standards (AWQS)	MW-1		MW-2	
SAMPLING DATE: 5/12/14			5/12/2014		5/12/2014	
LAB SAMPLE ID			L1410117-01		L1410117-02	
	Units		Results	Qual	Results	Qual
Dissolved Metals						
Aluminum, Dissolved	ug/l	--	5.81	J	6.82	J
Antimony, Dissolved	ug/l	3	6.01		2.63	
Arsenic, Dissolved	ug/l	25	5.72		5.33	
Barium, Dissolved	ug/l	1,000	802.8		109.2	
Beryllium, Dissolved	ug/l	3	0.5	U	0.5	U
Cadmium, Dissolved	ug/l	5	0.2	U	0.11	J
Calcium, Dissolved	ug/l	--	220,000		121,000	
Chromium, Dissolved	ug/l	50	2.23		0.95	J
Cobalt, Dissolved	ug/l	--	0.19	J	0.89	
Copper, Dissolved	ug/l	200	0.29	J	4.27	
Iron, Dissolved	ug/l	300	12,100		1,040	
Lead, Dissolved	ug/l	25	7.81		1.68	
Magnesium, Dissolved	ug/l	35,000	69,300		19,800	
Manganese, Dissolved	ug/l	300	1,962		59.05	
Mercury, Dissolved	ug/l	0.7	0.2	U	0.2	U
Nickel, Dissolved	ug/l	100	2.08		4.76	
Potassium, Dissolved	ug/l	--	21,900		25,600	
Selenium, Dissolved	ug/l	10	5	U	3.61	J
Silver, Dissolved	ug/l	50	0.4	U	0.4	U
Sodium, Dissolved	ug/l	20,000	614,000		530,000	
Thallium, Dissolved	ug/l	0.5	0.5	U	0.04	J
Vanadium, Dissolved	ug/l	--	2.1	J	1.26	J
Zinc, Dissolved	ug/l	2,000	12.67		42.93	
Total Metals						
Aluminum, Total	ug/l	--	20.2		18.5	
Antimony, Total	ug/l	3	1.41	J	1.73	J
Arsenic, Total	ug/l	25	5.52		7.26	
Barium, Total	ug/l	1,000	769.2		99.13	
Beryllium, Total	ug/l	3	0.5	U	0.5	U
Cadmium, Total	ug/l	5	0.2	U	0.08	J
Calcium, Total	ug/l	--	221,000		117,000	
Chromium, Total	ug/l	50	2.03		1.1	
Cobalt, Total	ug/l	--	0.19	J	0.73	
Copper, Total	ug/l	200	0.25	J	13.36	
Iron, Total	ug/l	300	12,000		1,760	
Lead, Total	ug/l	25	7.51		5.26	
Magnesium, Total	ug/l	35,000	63,100		22,900	
Manganese, Total	ug/l	300	1,902		39.81	
Mercury, Total	ug/l	0.7	0.2	U	0.2	U
Nickel, Total	ug/l	100	0.57		4.23	
Potassium, Total	ug/l	--	20,200		24,000	
Selenium, Total	ug/l	10	5	U	3.56	J
Silver, Total	ug/l	50	0.4	U	0.4	U
Sodium, Total	ug/l	20,000	578,000		507,000	
Thallium, Total	ug/l	0.5	0.5	U	0.03	J
Vanadium, Total	ug/l	--	2.43	J	1.95	J
Zinc, Total	ug/l	2,000	15.33		34.18	
Organochlorine Pesticides by GC						
Delta-BHC	ug/l	0.04	0.02	U	0.02	U
Lindane	ug/l	0.05	0.02	U	0.02	U
Alpha-BHC	ug/l	0.01	0.02	U	0.02	U
Beta-BHC	ug/l	0.04	0.02	U	0.02	U
Heptachlor	ug/l	0.04	0.02	U	0.02	U
Aldrin	ug/l	0.0	0.02	U	0.02	U
Heptachlor epoxide	ug/l	0.03	0.02	U	0.02	U
Endrin	ug/l	0	0.04	U	0.04	U
Endrin ketone	ug/l	5	0.04	U	0.04	U
Dieldrin	ug/l	0.004	0.04	U	0.04	U

Table 4 - GZA GeoEnvironmental Groundwater Analytical Results

489 Canal Street

New York, NY

LOCATION: 219 Hudson Street		New York TOGS		MW-1		MW-2	
SAMPLING DATE: 5/12/14		1.1.1 Ambient		5/12/2014		5/12/2014	
LAB SAMPLE ID		Water Quality		L1410117-01		L1410117-02	
	Units	Standards (AWQS)		Results	Qual	Results	Qual
4,4'-DDE	ug/l	0.2		0.04	U	0.04	U
4,4'-DDD	ug/l	0.3		0.04	U	0.04	U
4,4'-DDT	ug/l	0.2		0.04	U	0.04	U
Endosulfan I	ug/l	--		0.02	U	0.02	U
Endosulfan II	ug/l	--		0.04	U	0.04	U
Endosulfan sulfate	ug/l	--		0.04	U	0.04	U
Methoxychlor	ug/l	35		0.2	U	0.2	U
Toxaphene	ug/l	0.06		0.2	U	0.2	U
cis-Chlordane	ug/l	--		0.02	U	0.02	U
trans-Chlordane	ug/l	--		0.02	U	0.02	U
Chlordane	ug/l	0.05		0.2	U	0.2	U
Polychlorinated Biphenyls by GC							
Aroclor 1016	ug/l	0.09		0.083	U	0.083	U
Aroclor 1221	ug/l	0.09		0.083	U	0.083	U
Aroclor 1232	ug/l	0.09		0.083	U	0.083	U
Aroclor 1242	ug/l	0.09		0.083	U	0.083	U
Aroclor 1248	ug/l	0.09		0.083	U	0.083	U
Aroclor 1254	ug/l	0.09		0.083	U	0.083	U
Aroclor 1260	ug/l	0.09		0.083	U	0.083	U
Aroclor 1262	ug/l	0.09		0.083	U	0.083	U
Aroclor 1268	ug/l	0.09		0.083	U	0.083	U
Semivolatile Organics by GC/MS							
1,2,4-Trichlorobenzene	ug/l	5		5	U	5	U
Bis(2-chloroethyl)ether	ug/l	1		2	U	2	U
1,2-Dichlorobenzene	ug/l	3		2	U	2	U
1,3-Dichlorobenzene	ug/l	3		2	U	2	U
1,4-Dichlorobenzene	ug/l	3		2	U	2	U
3,3'-Dichlorobenzidine	ug/l	5		5	U	5	U
2,4-Dinitrotoluene	ug/l	5		5	U	5	U
2,6-Dinitrotoluene	ug/l	5		5	U	5	U
4-Chlorophenyl phenyl ether	ug/l	--		2	U	2	U
4-Bromophenyl phenyl ether	ug/l	--		2	U	2	U
Bis(2-chloroisopropyl)ether	ug/l	5		2	U	2	U
Bis(2-chloroethoxy)methane	ug/l	5		5	U	5	U
Hexachlorocyclopentadiene	ug/l	5		20	U	20	U
Isophorone	ug/l	50		5	U	5	U
Nitrobenzene	ug/l	0.4		2	U	2	U
NitrosoDiPhenylAmine(NDPA)	ug/l	50		2	U	2	U
n-Nitrosodi-n-propylamine	ug/l	--		5	U	5	U
Bis(2-Ethylhexyl)phthalate	ug/l	5		9.1	B	2.5	JB
Butyl benzyl phthalate	ug/l	50		5	U	5	U
Di-n-butylphthalate	ug/l	50		5	U	5	U
Di-n-octylphthalate	ug/l	50		5	U	5	U
Diethyl phthalate	ug/l	50		5	U	5	U
Dimethyl phthalate	ug/l	50		5	U	5	U
Biphenyl	ug/l	--		2	U	2	U
4-Chloroaniline	ug/l	5		5	U	5	U
2-Nitroaniline	ug/l	5		5	U	5	U
3-Nitroaniline	ug/l	5		5	U	5	U
4-Nitroaniline	ug/l	5		5	U	5	U
Dibenzofuran	ug/l	--		2	U	2	U
1,2,4,5-Tetrachlorobenzene	ug/l	5		10	U	10	U
Acetophenone	ug/l	--		5	U	5	U
2,4,6-Trichlorophenol	ug/l	--		5	U	5	U
P-Chloro-M-Cresol	ug/l	--		2	U	2	U
2-Chlorophenol	ug/l	--		2	U	2	U
2,4-Dichlorophenol	ug/l	1		5	U	5	U
2,4-Dimethylphenol	ug/l	50		5	U	5	U
2-Nitrophenol	ug/l	--		10	U	10	U
4-Nitrophenol	ug/l	--		10	U	10	U
2,4-Dinitrophenol	ug/l	10		20	U	20	U
4,6-Dinitro-o-cresol	ug/l	--		10	U	10	U

Table 4 - GZA GeoEnvironmental Groundwater Analytical Results

489 Canal Street

New York, NY

LOCATION: 219 Hudson Street		New York TOGS 1.1.1 Ambient Water Quality Standards (AWQS)	MW-1		MW-2	
SAMPLING DATE: 5/12/14			5/12/2014		5/12/2014	
LAB SAMPLE ID			L1410117-01		L1410117-02	
SAMPLE TYPE			Results	Qual	Results	Qual
Phenol	ug/l	1	5	U	5	U
2-Methylphenol	ug/l	--	5	U	5	U
3-Methylphenol/4-Methylphenol	ug/l	--	5	U	5	U
2,4,5-Trichlorophenol	ug/l	--	5	U	5	U
Benzoic Acid	ug/l	--	50	U	50	U
Benzyl Alcohol	ug/l	--	2	U	2	U
Carbazole	ug/l	--	2	U	2	U
Acenaphthene	ug/l	20	2		0.2	U
2-Chloronaphthalene	ug/l	10	2	U	0.2	U
Fluoranthene	ug/l	50	2	J	0.2	U
Hexachlorobutadiene	ug/l	0.5	5	U	0.5	U
Naphthalene	ug/l	10	150		0.13	J
Benzo(a)anthracene	ug/l	--	2	U	0.2	U
Benzo(a)pyrene	ug/l	0.0	2	U	0.2	U
Benzo(b)fluoranthene	ug/l	0.002	2	U	0.2	U
Benzo(k)fluoranthene	ug/l	0.002	2	U	0.2	U
Chrysene	ug/l	0.002	2	U	0.2	U
Acenaphthylene	ug/l	--	2	J	0.2	U
Anthracene	ug/l	50	2	J	0.2	U
Benzo(ghi)perylene	ug/l	--	2	U	0.2	U
Fluorene	ug/l	50	0.59	J	0.2	U
Phenanthrene	ug/l	50	0.73	J	0.2	U
Dibenzo(a,h)anthracene	ug/l	--	2	U	0.2	U
Indeno(1,2,3-cd)Pyrene	ug/l	0.002	2	U	0.2	U
Pyrene	ug/l	50	2	J	0.2	U
2-Methylnaphthalene	ug/l	--	45		0.2	U
Pentachlorophenol	ug/l	1	4.7	J	0.8	U
Hexachlorobenzene	ug/l	0.04	8	U	0.8	U
Hexachloroethane	ug/l	5	8	U	0.8	U
Volatile Organics by GC/MS						
Methylene chloride	ug/l	5	25	U	2.5	U
1,1-Dichloroethane	ug/l	5	25	U	2.5	U
Chloroform	ug/l	7	25	U	2.5	U
Carbon tetrachloride	ug/l	5	5	U	0.5	U
1,2-Dichloropropane	ug/l	1	10	U	1	U
Dibromochloromethane	ug/l	50	5	U	0.5	U
1,1,2-Trichloroethane	ug/l	1	15	U	1.5	U
Tetrachloroethene	ug/l	5	5	U	0.5	U
Chlorobenzene	ug/l	5	25	U	2.5	U
Trichlorofluoromethane	ug/l	5	25	U	2.5	U
1,2-Dichloroethane	ug/l	0.6	5	U	0.5	U
1,1,1-Trichloroethane	ug/l	5	25	U	2.5	U
Bromodichloromethane	ug/l	50	5	U	0.5	U
trans-1,3-Dichloropropene	ug/l	0.4	5	U	0.5	U
cis-1,3-Dichloropropene	ug/l	0.4	5	U	0.5	U
1,1-Dichloropropene	ug/l	5	25	U	2.5	U
Bromoform	ug/l	50	20	U	2	U
1,1,2,2-Tetrachloroethane	ug/l	5	5	U	0.5	U
Benzene	ug/l	1	170		0.47	J
Toluene	ug/l	5	39		2.5	U
Ethylbenzene	ug/l	5	590		3.2	
Chloromethane	ug/l	--	25	U	2.5	U
Bromomethane	ug/l	5	25	U	2.5	U
Vinyl chloride	ug/l	2	10	U	1	U
Chloroethane	ug/l	5	25	U	2.5	U
1,1-Dichloroethene	ug/l	5	5	U	0.5	U
trans-1,2-Dichloroethene	ug/l	5	25	U	2.5	U
Trichloroethene	ug/l	5	5	U	0.5	U
1,2-Dichlorobenzene	ug/l	3	25	U	2.5	U
1,3-Dichlorobenzene	ug/l	3	25	U	2.5	U
1,4-Dichlorobenzene	ug/l	3	25	U	2.5	U
Methyl tert butyl ether	ug/l	10	25	U	2.5	U

Table 4 - GZA GeoEnvironmental Groundwater Analytical Results

489 Canal Street

New York, NY

LOCATION: 219 Hudson Street		New York TOGS		MW-1		MW-2	
SAMPLING DATE: 5/12/14		1.1.1 Ambient		5/12/2014		5/12/2014	
LAB SAMPLE ID		Water Quality		L1410117-01		L1410117-02	
SAMPLE TYPE		Standards (AWQS)		Results	Qual	Results	Qual
p/m-Xylene	ug/l	5		170		1	J
o-Xylene	ug/l	5		17	J	2.5	U
cis-1,2-Dichloroethene	ug/l	5		25	U	2.5	U
Dibromomethane	ug/l	5		50	U	5	U
1,2,3-Trichloropropane	ug/l	0.04		25	U	2.5	U
Acrylonitrile	ug/l	5		50	U	5	U
Styrene	ug/l	5		25	U	2.5	U
Dichlorodifluoromethane	ug/l	5		50	U	5	U
Acetone	ug/l	50		50	U	5	U
Carbon disulfide	ug/l	60		50	U	5	U
2-Butanone	ug/l	50		50	U	5	U
Vinyl acetate	ug/l	--		50	U	5	U
4-Methyl-2-pentanone	ug/l	--		50	U	5	U
2-Hexanone	ug/l	50		50	U	5	U
Bromochloromethane	ug/l	5		25	U	2.5	U
2,2-Dichloropropane	ug/l	5		25	U	2.5	U
1,2-Dibromoethane	ug/l	0.0006		20	U	2	U
1,3-Dichloropropane	ug/l	5		25	U	2.5	U
1,1,1,2-Tetrachloroethane	ug/l	5		25	U	2.5	U
Bromobenzene	ug/l	5		25	U	2.5	U
n-Butylbenzene	ug/l	5		22	J	2.5	U
sec-Butylbenzene	ug/l	5		14	J	2.5	U
tert-Butylbenzene	ug/l	5		25	U	2.5	U
o-Chlorotoluene	ug/l	5		25	U	2.5	U
p-Chlorotoluene	ug/l	5		25	U	2.5	U
1,2-Dibromo-3-chloropropane	ug/l	0.04		25	U	2.5	U
Hexachlorobutadiene	ug/l	0.5		25	U	2.5	U
Isopropylbenzene	ug/l	5		200		1.7	J
p-Isopropyltoluene	ug/l	5		13	J	2.5	U
Naphthalene	ug/l	10		220		1.9	J
n-Propylbenzene	ug/l	5		300		3.3	
1,2,3-Trichlorobenzene	ug/l	5		25	U	2.5	U
1,2,4-Trichlorobenzene	ug/l	5		25	U	2.5	U
1,3,5-Trimethylbenzene	ug/l	5		84		2.5	U
1,2,4-Trimethylbenzene	ug/l	5		17	J	2.5	U
1,4-Dioxane	ug/l	--		2500	U	250	U
1,4-Diethylbenzene	ug/l	--		110		2.3	
4-Ethyltoluene	ug/l	--		64		2	U
1,2,4,5-Tetramethylbenzene	ug/l	--		26		0.67	J
Ethyl ether	ug/l	--		25	U	2.5	U
trans-1,4-Dichloro-2-butene	ug/l	5		25	U	2.5	U

Table Notes:

Non-Detect Value - with a Reporting Limit that exceeds the AWQS

Result exceeds NY TOGS AWQS

J Estimated Value. The target analyte concentration is below the quantitative limit (RL), but above the method detection limit (MDL) or

U Not detected at the reported detection limit for the sample

-- No Guidance Value

ug/l = microgram per liter



APPENDIX A
LIMITATIONS



GEOHYDROLOGICAL LIMITATIONS

Use of Report

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

Standard of Care

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).
3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.
4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

Subsurface Conditions

5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.
6. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

Compliance with Codes and Regulations

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

Screening and Analytical Testing

8. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.
9. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.
10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

Interpretation of Data

11. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

Additional Information

12. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

Additional Services

13. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.



APPENDIX B

**SOIL MECHANICS ENVIRONMENTAL SERVICES JANUARY
2013 ENVIRONMENTAL SITE ASSESSMENT**

ENVIRONMENTAL SITE ASSESSMENT



PROPERTY LOCATED AT:
489 CANAL ST (a.k.a. 219 HUDSON ST)
NEW YORK, NEW YORK
12-703

PREPARED FOR:
MR. MARC HELD C/O MR. RAFI GIBLY
311 CHURCH STREET, APT #2
NEW YORK, NEW YORK 10013

JANUARY 2013

PREPARED BY:
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1.0 ABSTRACT

The subject property, located at 489 Canal Street (a.k.a. 219 Hudson Street), in the Borough of Manhattan, County of New York, State of New York, currently consists of an irregular shaped parcel of land comprised of a one-story brick building, one-story wood frame shed, large advertising sign (billboard), construction trailer, and asphalt surfaces.

The property is located within an urban area characterized by multi-story residential, retail, and commercial buildings. The Approach to the Holland Tunnel is located just east of the target property.

The target property is currently used as a parking lot. Further, the on-site shed is utilized for the storage of vending carts.

The subject property is currently utilized as a parking lot and has since about the 1990's. From at least 1894 through the early 1930's, the site consisted of several multi-story buildings used predominately for "residential" or "store" purposes. One (1) of the buildings located at 223 Hudson Street was identified as "Packing Boxes" in 1894 and "Packing Box Factory" in 1905. Furthermore, the property consisted of a gasoline filling station (with automobile repairs) from the early 1930's through 1980's.

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

- The presence of an "active" status SPILL Site with documented groundwater contamination at 231-239 Hudson Street.
- The historical use of the property as a gasoline filling station.
- Due to its unknown origin and environmental quality, the presence of fill material at the subject property.

2.0 INTRODUCTION

2.1 Purpose

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

2.2 Detailed Scope of Services

Soil Mechanics Environmental Services (SMES) was retained by Mr. Marc Held to perform a Phase I ESA at the subject property (see Section 3.1 for property location and legal description). The Phase I ESA scope of services was outlined in our Proposal No. 2619, dated Revised December 4, 2012. The scope of services was agreed to by the client on December 4, 2012.

2.3 Significant Assumptions

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

2.4 Limitations and Exceptions

The Phase I ESA was limited to historical research and site reconnaissance to evaluate the existence of any RECs. Consistent with generally accepted protocols, the Phase I ESA did not include sampling or analysis of suspect materials which may have been observed at the target property. Please be advised that there was no access to the one-story brick building located at the northern portion of the property. This building appears to be joined and associated with the neighboring building located to the west.

2.5 Special Terms and Conditions

No special terms or conditions were requested by the client in connection with the Phase I ESA. All appropriate inquiry into the prior use(s) of the subject property were made with good commercial practices in order to identify RECs that are representative of existing, past, or potential environmental concerns in connection with the property.

2.6 User Reliance

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

2.7 Previous Investigation(s)

A geotechnical investigation was conducted at the subject property by Soil Mechanics Drilling Corp. for the client concurrent to the Phase I ESA report. Information obtained from the geotechnical investigation (January 2013) is summarized below:

- The geotechnical investigation consisted of the drilling of two (2) test borings. The purpose of the subsurface investigation was to determine the nature and extent of the underlying soil deposits and determine the structural engineering characteristics of the soil at the site.
- The investigation revealed that the areas drilled are blanketed by from 11 feet to 13 feet of loose soil and rubble fill and soft compressible peat, underlain, generally, by a moderately dense naturally bedded coarse to fine sand with traces of silt and gravel extending to the deepest depths drilled.
- Natural ground water was encountered within the boreholes at depths of 7'2" and 7'9" below existing grade at the time the work was done.

3.0 SITE DESCRIPTION

3.1 Location and Legal Description

Address: 489 Canal Street (a.k.a. 219 Hudson Street), New York, N.Y. 10013.

Borough/County: Borough of Manhattan, County of New York.

Current Tax Lot: Block: 594 and Lot: 108.

Property Size: 57.25 FT X 31.58 FT (Irregular).

Please refer to Site/Vicinity Map in Appendix.

3.2 Site and Vicinity General Characteristics

The property is located within an urban area characterized by multi-story residential, retail, and commercial buildings. The Approach to the Holland Tunnel is located just east of the target property.

3.3 Current Use of Property

The target property is currently used as a parking lot. Further, the on-site shed is utilized for the storage of vending carts.

3.4 Description of Structures, Roads, and Other Improvements

The site (57.25 FT X 31.58 FT) currently consists of an irregular shaped parcel of land comprised of an approximate 6.0' X 48.0' one-story brick building, an approximate 17.0' X 20.0' one-story wood frame shed, large advertising sign (billboard), construction trailer, and asphalt surfaces. Please be advised that there was no access to the one-story brick building located at the northern portion of the property. This building appears to be joined and associated with the neighboring building located to the west. The property is generally level. Adjoining buildings border the northern and western portions. The thoroughfares Canal Street and Hudson Street, respectively, border the southern and eastern portions (see Site Plan and Site Photographs in Appendix).

Heating/Cooling System(s)

There were no heating/cooling systems identified in connection with the site buildings.

Sewage Disposal

There are no bathrooms associated with the one-story wood frame shed. Further, there were no visual indications of sewage disposal systems at the property.

Source of Potable Water

Currently, potable water is not provided to the site.

3.5 Current Uses of Adjoining Properties

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

North of the Site: Multi-story retail/residential building and construction site (future hotel).

South of the Site: Canal Street and multi-story commercial building (Mr. Lock's Security Systems).

East of the Site: Hudson Street and Approach to the Holland Tunnel.

West of the Site: Two-story commercial building (Polo Electric).

4.0 USER PROVIDED INFORMATION

4.1 Title Records

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

4.2 Activity and Use Limitations/Environmental Liens

EDR Inc. (440 Wheelers Farms Road, Milford, CT) completed an Environmental Lien and AUL Search for the target property. The environmental lien and AUL search report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls associated with the subject property. According to this report, environmental liens or other activity and use limitations (AULs) were not found for the property (see Environmental Lien Search Report in Appendix).

4.3 Specialized Knowledge

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

4.4 Valuation Reduction for Environmental Issues

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

4.5 Owner, Property Manager, and Occupant Information

Based on information obtained from the New York City Register, the property is currently owned by 489 Canal Properties Inc. There is no property manager affiliated with the site. The target property is currently used as a parking lot. Further, the on-site shed is utilized for the storage of vending carts.

4.6 Reason for Performing Phase I Environmental Site Assessment

The reason this Phase I ESA was requested by Mr. Marc Held was to identify, to the extent feasible, RECs associated with the subject property in connection with the redevelopment of the property.

5.0 RECORDS REVIEW

5.1 Standard Environmental Record Sources

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

<u>Standard Environmental Records</u>	<u>Search Distance (miles)</u>	<u>Sites Identified within Search Distance</u>
NPL	1.0	<u>YES</u>
Proposed NPL	1.0	No
NPL Liens	Property Only	No
Delisted NPL	1.0	No
CERCLIS	0.5	<u>YES</u>
CERCLIS-NFRAP	0.5	<u>YES</u>
CORRACTS	1.0	No
RCRA TSDF	0.5	No
RCRA LQG	Property/Adj. Properties	No
RCRA SQG	Property/Adj. Properties	No
RCRA CESQG	Property/Adj. Properties	No
US Eng Controls	Property Only	No
US Inst Controls	Property Only	No
ERNS	Property Only	No

SHWS	1.0	No
Vapor Reopened	1.0	No
SWF/LF	0.5	<u>YES</u>
LTANKS	0.5	<u>YES</u>
HIST LTANKS	0.5	<u>YES</u>
Indian LUST	0.5	No
UST	Property/Adj. Properties	<u>YES</u>
MOSF UST	Property/Adj. Properties	No
AST	Property/Adj. Properties	No
CBS AST	Property/Adj. Properties	No
MOSF AST	Property/Adj. Properties	No
MOSF	Property/Adj. Properties	No
CBS	Property/Adj. Properties	No
Indian UST	Property/Adj. Properties	No
State ENG CONTROLS	Property Only	No
State INST CONTROLS	Property Only	No
State RES DECL	Property Only	No
VCP	0.5	<u>YES</u>
Indian VCP	0.5	No
ERP	0.5	No
BROWNSFIELDS	0.5	<u>YES</u>

<u>Additional Environmental Records</u>	<u>Search Distance (miles)</u>	<u>Sites Identified within Search Distance</u>
US BROWNSFIELDS	0.5	No
DEBRIS Region 9	1.0	No
ODI	1.0	No
SWTIRE	0.5	No
SWRCY	0.5	<u>YES</u>
Indian ODI	0.5	No
US CDL	0.5	No
DEL SHWS	0.5	No
HIST UST	Property/Adj. Properties	No

HIST AST	Property/Adj. Properties	No
LIENS 2	Property/Adj. Properties	No
LUCIS	Property/Adj. Properties	No
HMIRS	Property/Adj. Properties	No
NY SPILLS	0.125	<u>YES</u>
NY HIST SPILLS	0.125	<u>YES</u>
RCRA Non-Gen	Property/Adj. Properties	No
DOT OPS	Property Only	No
DOD	Property Only	No
FUDS	Property Only	No
CONSENT	Property Only	No
ROD	Property Only	No
UMTRA	Property Only	No
MINES	Property Only	No
TRIS	Property Only	No
TSCA	Property Only	No
FTTS	Property Only	No
HIST FTTS	Property Only	No
SSTS	Property Only	No
ICIS	Property Only	No
PADS	Property Only	No
MLTS	Property Only	No
RADINFO	Property Only	No
FINDS	Property Only	No
RAATS	Property Only	No
HSWDS	0.5	<u>YES</u>
MANIFEST	Property/Adj. Properties	No
DRY CLEANERS	0.250	<u>YES</u>
NPDES	Property Only	No
AIRS	Property Only	No
E DESIGNATION	Property/Adj. Properties	<u>YES</u>
Indian RESERV	Property Only	No
SCRD DRYCLEANERS	0.250	No

PWS	Property Only	No
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<u>EDR Proprietary Records</u>	<u>Search Distance (miles)</u>	<u>Sites Identified within Search Distance</u>
MANUFACTURED GAS PLANTS	1.0	<u>YES</u>

The target property was identified within the following record:

E DESIGNATION Site:

- Lot 108, Tax Block 594, 219 Hudson Street, Manhattan, N.Y. E-No: E-116. Effective Date: 8/19/2003. Description: Window Wall Attenuation & Alternate Ventilation and Underground Gasoline Storage Tanks Testing Protocol.

The following mapped sites were identified within applicable search distances:

NPL Sites:

- 1.) Hudson River PCBs, located 1/8 – 1/4 mile to the west (no street applicable), in Hudson River, N.Y.

CERCLIS Sites:

- 1.) Hudson River PCBs, previously mentioned.
- 2.) New York City Anthrax Sites, located 1/4 - 1/2 mile to the north northeast at 31 Dowling Street/2 Prince Street, New York, N.Y.

CERC-NFRAP Sites:

- 1.) Federal Building/GSA, located 1/4 - 1/2 mile to the north northeast at 201 Varick Street, in New York, N.Y.

SWF/LF Sites:

1.) Barretti Carting Corp, located 1/8 – ¼ mile to the north northwest at 509 Greenwich Street, in New York, N.Y. Activity Description: Transfer station – permit. Waste Type: Not reported.

2.) Varlotta Construction Corp, located ¼ - ½ mile to the southwest at West Street and Hubert Street (Lower Manhattan), in New York, N.Y. Activity Description: Transfer station – permit. Waste Type: Not reported.

LTANK Sites:

A total of 74 LTANK/Historical LTANK Sites were identified within a ½ mile radius. Of these LTANK/Historical LTANK Sites, nine (9) are listed as “active” status, which means the spill case is on-going. The remaining sites are listed as “closed” status, which means the spill case was closed because either: a.) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b.) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). Information concerning the nine (9) “active” status LTANK/Historical LTANK Sites revealed that seven (7) sites are documented as affecting the land, one (1) site is documented as affecting the groundwater, and one (1) site the resource affected was not reported.

UST Sites:

1.) 231-239 Hudson Street, located adjacent and to the north at 231-239 Hudson Street, in Manhattan, N.Y. A total of three (3) USTs are registered for this facility and include one (1) 1,000-gallon UST closed – removed on March 22, 2012 and two (2) 550-gallon USTs closed – removed on March 22, 2012.

VCP Sites:

1.) CE – Canal Street Works, located ½ - 1 mile to the southeast at Canal Street, in New York, N.Y.

BROWNSFIELDS Sites:

1.) West & Watts Development, located 1/8 – ¼ mile to the west at 281 West Street and 455 Washington Street, in New York, N.Y.

SWRCY Sites:

1.) Lot 31, Tax Block 223, located 0 – 1/8 mile to the southwest at 444 Greenwich Street, in Manhattan, N.Y. Activity Description: RHRF – registration. Waste Type: Not reported.

2.) Atlas Paper Stock Co, located ¼ - ½ mile to the north at 589 Washington Street, in New York, N.Y. Activity Description: RHRF – registration. Waste Type: Commingled Paper.

SPILL Sites:

A total of 32 SPILL/Historical SPILL Sites were identified within a 1/8 mile radius. Of these SPILL/Historical SPILL Sites, one (1) is listed as “active” status, which means the spill case is on-going. The remaining sites are listed as “closed” status, which means the spill case was closed because either: a.) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b.) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). Information concerning the one (1) “active” status SPILL/Historical SPILL Site revealed that it is documented as affecting the groundwater.

HSWDS Sites:

1.) US Dept of Homeland Security, located ¼ - ½ mile to the north northeast at 201 Varick Street, in New York, N.Y.

DRY CLEANER Sites:

1.) Soho Dry Cleaning, located 1/8 – ¼ mile to the east at 529 Broome Street, in New York, N.Y. Registration Effective Date: N/A; Current Business: Drop Shop.

MANUFACTURED GAS PLANTS Sites:

- 1.) Con Edison - Canal Street Works MGP, located ½ - 1 mile to the southeast at Canal Street, in New York, N.Y.
- 2.) Con Edison - Cross Little Water Streets MGP, located ½ - 1 mile to the south southeast at 60 Centre Street, in New York, N.Y.
- 3.) Con Edison - Hester Street Gas Works MGP, located ½ - 1 mile to the southeast at Hester Street, in New York, N.Y.
- 4.) Con Edison - Roosevelt Street Station MGP, located ½ - 1 mile to the south southeast at Pearl Street between Park Row and South Street, in New York, N.Y.

5.2 Physical Setting Source(s)

Topography

Information obtained from the 7.5 minute series, Jersey City, NJ, NY Quadrangle, Topographic Map, published by the US Department of the Interior, Geological Survey, revealed that the site is located approximately 13.0 feet above mean sea level (see Topographic Map in Appendix).

Groundwater

Information pertaining to depth to groundwater and/or groundwater flow direction is not readily available for this area of New York State. Groundwater flow direction is often locally influenced by factors such as surface topography, underground structures, tidal influences, seasonal fluctuations, soil and bedrock geology, production wells, and other factors. Notably, however, shallow groundwater flow is expected to follow the ground level slope of surface elevations towards the nearest open body of water or intermittent stream.

5.3 Historical Use Information on the Property

Historical Overview

The subject property is currently utilized as a parking lot and has since about the 1990's. From at least 1894 through the early 1930's, the site consisted of several multi-story buildings used predominately for "residential" or "store" purposes. One (1) of the buildings located at 223 Hudson Street was identified as "Packing Boxes" in 1894 and "Packing Box Factory" in 1905. Furthermore, the property consisted of a gasoline filling station (with automobile repairs) from the early 1930's through 1980's.

City Directory Abstract

A City Directory Abstract search was conducted by EDR Inc. (440 Wheelers Farms Road, Milford, CT) for the addresses associated with the property. The 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(s) at five (5) year intervals. Business directories including city, cross reference, and telephone directories were reviewed, if available, at approximately five (5) year intervals for the years spanning 1920 through 2012. According to the City Directory Abstract, addresses associated with the site were occupied by the following (see City Directory Abstract in Appendix):

489 Canal Street, New York, N.Y.

<u>Year(s)</u>	<u>Use(s)</u>
1920	Danna Jacob, Meurer Peter
1923, 1927, 1931, 1934, 1938, 1942, 1947, 1950, 1956	Address Not Identified in Research Source
1958	Frazer Service Station
1963, 1968, 1973	Address Not Identified in Research Source
1978, 1983, 1988	Direct Transportation Co

1993, 1996, 1998, 2000, 2006, 2007	Address Not Identified in Research Source
2012	Soho Auto Repair

491 Canal Street, New York, N.Y.

<u>Year(s)</u>	<u>Use(s)</u>
1920	Barrett Katherine pkr, Guido Edwin silk finisher, Kinsler Herman roofer, Marsci Louis tailor, Murray Jas lab, Pelligrino Constantino candy maker
1923, 1927	Kinsler Herman Roofing
1931	Wood Edith, Coccaso Emanual
1934, 1938, 1942, 1947, 1950, 1956, 1958, 1963, 1968, 1973, 1978, 1983, 1988, 1993, 1996, 1998, 2000, 2006, 2007, 2012	Address Not Identified in Research Source

219 Hudson Street, New York, N.Y.

<u>Year(s)</u>	<u>Use(s)</u>
1920, 1923, 1927, 1931, 1934, 1938, 1942, 1947, 1950, 1956, 1958, 1963, 1968, 1973, 1978, 1983, 1988, 1993, 1996, 1998, 2000, 2006, 2007, 2012	Address Not Identified in Research Source

Historical Sanborn Fire Insurance Maps

Review of historical Sanborn fire insurance maps (obtained from EDR Inc., 440 Wheelers Farms Road, Milford, CT), dated 1894, 1905, 1913, 1922, 1928, 1950, 1968, 1976-1980, 1983, 1985, 1987, 1988, 1990, 1992-1996, and 2001-2005, revealed the following (see Certified Sanborn Map Report in Appendix):

<u>Year(s)</u>	<u>Description</u>
1894	The subject property consisted of five (5) buildings. The building located at 223 Hudson Street was labeled as "Packing Boxes".
1905, 1922	The site consisted of five (5) multi-story buildings used for "residential" or "store" purposes. The building located at 221-223 Hudson Street was depicted as "Packing Box Factory" in the 1905 Sanborn map.
1950, 1968, 1976-1980, 1983	The property consisted of a "filling station" with 1-story building used for "office" and "storage" purposes.
1985, 1987, 1988, 1990, 1992, 1993	The target property consisted of a "vacant" 1-story "office" and "storage" building. The site is no longer depicted as being used as a "filling station".
1994, 1995, 1996, 2001- 2005	The property consisted of vacant land used for "parking" purposes.

Historical Aerial Photographs

Review of historical aerial photographs (obtained from EDR Inc., 440 Wheelers Farms Road, Milford, CT), dated 1924, 1943, 1954, 1966, 1975, 1984, 1995, 2006, and 2008, revealed the following (see Aerial Photo Decade Package in Appendix):

<u>Year(s)</u>	<u>Description</u>
1924	The property consisted of former buildings.
1943, 1954, 1966, 1975, 1984	The site consisted of a gasoline service station.
1995, 2006, 2008	The subject property consisted mostly of vacant land used for parking purposes.

Historical Topographical Maps

Review of historical topographic maps (obtained from EDR Inc., 440 Wheelers Farms Road, Milford, CT), dated 1891, 1900, 1905, 1947, 1955, 1967, and 1981, revealed the following (see Historical Topographic Map Report in Appendix):

<u>Year(s)</u>	<u>Description</u>
1891, 1900, 1905, 1947, 1955, 1967, 1981	There were no significant site features depicted at the subject property within any of these topographic maps.

New York City Department of Buildings

Review of records available from the New York City Department of Buildings (NYC.gov) revealed the following pertinent information (see NYC Department of Buildings Information in Appendix):

- 489 Canal Street (Block: 594 and Lot: 108).
- Department of Finance Building Classification: G6-Garage/Gas Station.
- According to Actions, Demolition Permits were issued in connection with the property in 1932, 1932, and 1933.
- Certificate of Occupancy No. 18897, dated April 5, 1933, for the permissible use and occupancy of office and gasoline selling station.

- Certificate of Occupancy No. 21292, dated May 25, 1936, for the permissible use and occupancy of lunch wagon.
- Certificate of Occupancy No. 43154, dated September 24, 1954, for the permissible use and occupancy of gasoline service station, lubrication, motor vehicle repair shop, sales of auto accessories and parking space for more than (5) motor vehicles on vacant part of lot. Gasoline tank installation approved by Fire Department September 17, 1954.

New York City Property Information System

Review of records available from the New York City Property Information System (NYC.gov) revealed the following pertinent information (see NYC Property Assessment Roll Information in Appendix):

- 219 Hudson Street (Block: 594 and Lot: 108).
- Owner Name: 489 Canal Properties Inc.
- Building Class: G6-Licensed Parking Lot.
- Lot Size: 57.25 FT X 31.58 FT (IRREG).
- Number of Buildings: 1.
- Building Size: 0.00 FT X 16.00 FT.

5.4 Historical Use Information on Adjoining Properties

Review of the previously discussed historical Sanborn fire insurance maps revealed the following pertaining to historical uses of adjoining properties:

- The neighboring properties to the north consisted of multi-story retail/residential structures in 1894 and 1905; multi-story retail/residential buildings and vacant land in 1922; multi-story retail/commercial/residential buildings and building identified as “Express Depot” in 1950, 1968, 1976-1980, 1983, 1985, 1987, 1988, 1990, 1992-1996, and 2001-2004; multi-story commercial/residential buildings and “Parking Garage” in 2005.

- Land use south of Canal Street consisted of numerous multi-story retail/residential buildings in 1894, 1905, and 1922; multi-story retail/commercial/flat building in 1950, 1968, 1976-1980, 1983, 1985, 1987, 1988, 1990, 1992-1996, 2001-2004, and 2005.
- Land use east of Canal Street consisted of numerous multi-story retail/residential buildings in 1894, 1905, and 1922; land designated “NY & NJ Holland Tunnel Plaza in 1950, 1968, and 1976-1980; land designated as “Park”, “NY & NJ Holland Tunnel Plaza”, and “Approach to the Holland Tunnel” in 1983, 1985, 1987, 1988, 1990, 1992-1996, 2001-2004, and 2005.
- The adjoining properties to the west consisted of multi-story retail/residential structures in 1894, 1905, and 1922; multi-story retail/commercial/residential structures in 1950, 1968, 1976-1980, 1983; “Used Tires” and multi-story retail/commercial/residential structures in 1985, 1987, 1988, 1990, 1992, and 1993; multi-story retail/commercial/residential structures in 1994-1996 and 2001-2005.

6.0 SITE RECONNAISSANCE

6.1 Methodology and Limiting Conditions

The site reconnaissance included a “walk through” visual inspection of all accessible portions of the subject premises on December 10, 2012. There was no site representative present during the site visit. Please be advised that there was no access to the one-story brick building located at the northern portion of the property. This building appears to be joined and associated with the neighboring building located to the west.

6.2 General Site Setting

The site (57.25 FT X 31.58 FT) currently consists of an irregular shaped parcel of land comprised of an approximate 6.0' X 48.0' one-story brick building, an approximate 17.0' X 20.0' one-story wood frame shed, large advertising sign (billboard), construction trailer, and asphalt surfaces (see Site Plan and Site Photographs in Appendix).

6.3 Observations

Visual inspection of the target property revealed an approximate 6.0' X 48.0' one-story brick building, an approximate 17.0' X 20.0' one-story wood frame shed, large advertising sign (billboard), construction trailer, concrete mat associated with potential underground storage tanks (USTs), several manhole covers labeled electric, and the parking of vehicles. Also, two (2) fill ports were observed within the city sidewalk outside the northeastern portion of the property. Inspection within the inside of the shed revealed that it was being used for the storage of vending carts. Surface materials throughout the site and within the one-story shed consisted of asphalt pavement.

6.4 PCBs

There were no electrical or hydraulic equipment known to contain PCBs or likely to contain PCBs visually or physically observed at the property.

6.5 Aboveground Storage Tank(s)(ASTs)

No aboveground storage tanks (ASTs) were visually observed at the target property.

6.6 Underground Storage Tank(s)(USTs)

Visual indications, i.e., concrete mat, fill ports, of potential underground storage tanks (USTs) were identified at the subject premises. The concrete mat was identified at the southern portion of the property (beneath the construction trailer) and the fill ports were observed within the city sidewalk outside the northeastern portion of the property. Further, the client provided SMES with the following documentation in connection with USTs associated with the target property (see documentation in Appendix):

- Survey, dated April 1, 1948, which identifies property as "Automobile Service Station" and depicts one-story brick and concrete block service station building at the northern portion, concrete bases for gasoline pumps at the southern portion, and metal lift (which rotates and rises on center column) at the northeastern portion.
- Letter, dated July 14, 1987, from AAR-BEE Oil Service Inc (Whitestone, N.Y.) which certifies that AAR-BEE Oil Service has removed all combustible materials from 7-550-gallon tanks and cemented all fill lines.
- Receipt, dated November 30, 1990, from T.N.C.C. (Jamaica, N.Y.) which states that three (3) 550-gallon gas tanks were removed.
- Violation Order, dated September 16, 1998, from City of New York Fire Department Bureau of Fire Prevention regarding the sealing of 7-550-gallon gasoline tanks.
- Letter, undated, from City of New York Fire Department which states that Mr. Samuel Jerafi delivered document to the Fire Department pertaining to buried gasoline tanks being removed. The letter states that the Fire Department accepted those documents and released violation order #D71550. The letter further stated that no further action would be taken on part of the Fire Department and all is complied with.

6.7 Underground Vehicle Lift(s)

The client provided SMES with the following documentation associated with an underground vehicle lift system for the subject premises (see documentation in Appendix):

- Survey, dated April 1, 1948, which identifies property as “Automobile Service Station” and depicts one-story brick and concrete block service station building at the northern portion, concrete bases for gasoline pumps at the southern portion, and metal lift (which rotates and rises on center column) at the northeastern portion.

6.8 Hazardous Substances/Petroleum Products

There were no containers identified as containing hazardous substances or petroleum products visually observed at the target property. Further, there were no unidentified substance containers visually identified at the site.

6.9 Water Supply Wells/Groundwater Monitoring Wells

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

6.10 Drainage Structures

There were no drainage structures visually identified at the subject premises.

6.11 Discolored Areas or Spill Areas

No discolored or spill areas were visually observed at the subject property.

6.12 Stained Soil or Pavement

There were no visual indications of stained soil or stained pavement at the property.

6.13 Areas with Stressed Vegetation

No areas with stressed vegetation were visually observed at the site.

6.14 Odors

There were no strong, pungent, or noxious odors physically observed at the target property.

6.15 Pools of Liquid

No standing surface water was visually identified at the subject property. Further, there were no pools or sumps containing liquids likely to be hazardous substances or petroleum products visually identified at the property.

6.16 Medical or Infectious Wastes

No medical or infectious wastes were visually observed at the subject property.

6.17 Solid Waste

Information obtained from a geotechnical investigation (Soil Mechanics Drilling Corp, January 2013), which included the drilling of two (2) soil test borings, revealed that the areas drilled are blanketed by from 11 feet to 13 feet of loose soil and rubble fill and soft compressible peat, underlain, generally, by a moderately dense naturally bedded coarse to fine sand with traces of silt and gravel extending to the deepest depths drilled.

6.18 Pits, Ponds, or Lagoons

No pits, ponds, or lagoons were identified on the subject property. Further, there were no pits, ponds, or lagoons visually identified on adjoining properties.

7.0 INTERVIEWS

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

8.0 FINDINGS

A Phase I Environmental Site Assessment (ESA) was conducted by Soil Mechanics Environmental Services (SMES) at the property located at 489 Canal Street (a.k.a. 219 Hudson Street), in the Borough of Manhattan, State of New York for Mr. Marc Held. The Phase I ESA was completed in conformance with current ASTM E 1527 and United States Environmental Protection Agency (USEPA) "all appropriate inquiry" standards and practices.

The site (57.25 FT X 31.58 FT) currently consists of an irregular shaped parcel of land comprised of an approximate 6.0' X 48.0' one-story brick building, an approximate 17.0' X 20.0' one-story wood frame shed, large advertising sign (billboard), construction trailer, and asphalt surfaces. Please be advised that there was no access to the one-story brick building; this building appears to be joined and associated with the adjoining building located to the west.

There were no heating/cooling systems identified in connection with the site buildings. There are no bathrooms associated with the one-story wood frame shed. Further, there were no visual indications of sewage disposal systems at the property. Currently, potable water is not provided to the site.

The property is located within an urban area characterized by multi-story residential, retail, and commercial buildings. The Approach to the Holland Tunnel is located just east of the target property.

The site is currently used as a parking lot. Further, the on-site shed is utilized for the storage of vending carts.

Review of standard environmental record sources revealed that the property was listed within the following database:

- E DESIGNATION Site. E-No: E-116. Effective Date: 8/19/2003.
Description: Window Wall Attenuation & Alternate Ventilation and Underground Gasoline Storage Tanks Testing Protocol.

The following mapped sites were identified within applicable search distances:

- Hudson River PCBs, a designated NPL Site and CERCLIS Site, was identified 1/8 – 1/4 mile to the west.
- New York City Anthrax Sites, a designated CERCLIS Site, was identified 1/4 - 1/2 mile to the north northeast.
- Federal Building/GSA, a designated CERC-NFRAP Site, was identified 1/4 - 1/2 mile to the north northeast.
- Two (2) SWF/LF Sites (Barretti Carting Corp, Varlotta Construction Corp) and two (2) SWRCY Sites (Lot 31 Tax Block 223, Atlas Paper Stock Co) were identified within a 1/2 mile radius.
- A total of 74 LTANK/Historical LTANK Sites were identified within a 1/2 mile radius. Of these LTANK/Historical LTANK Sites, nine (9) are listed as “active” status and the remaining sites are listed as “closed” status. Information concerning the nine (9) “active” status LTANK/Historical LTANK Sites revealed that seven (7) sites are documented as affecting the land, one (1) site is documented as affecting the groundwater, and one (1) site the resource affected was not reported.
- 231-239 Hudson Street, a designated UST Site, was identified adjacent and to the north at 231-239 Hudson Street, in Manhattan, N.Y.
- West & Watts Development, a designated BROWNSFIELDS Site, was identified 1/8 – 1/4 mile to the west.
- A total of 32 SPILL/Historical SPILL Sites were identified within a 1/8 mile radius. Of these SPILL/Historical SPILL Sites, one (1) is listed as “active” status and the remaining sites are listed as “closed” status. Information concerning the one (1) “active” status SPILL/Historical SPILL Site revealed that it is documented as affecting the groundwater.

- US Dept of Homeland Security, a designated HSWDS Site, was identified ¼ - ½ mile to the north northeast.
- Soho Dry Cleaning, a designated DRY CLEANER Site, was identified 1/8 – ¼ mile to the east.
- Four (4) MANUFACTURED GAS PLANTS Sites (Con Edison - Canal Street Works MGP, Con Edison - Cross Little Water Streets MGP, Con Edison - Hester Street Gas Works MGP, Con Edison - Roosevelt Street Station MGP) were identified within applicable search distances. Notably, the Con Edison - Canal Street Works MGP Site is also listed as a VCP Site.

The subject property is currently utilized as a parking lot and has since about the 1990's. From at least 1894 through the early 1930's, the site consisted of several multi-story buildings used predominately for "residential" or "store" purposes. One (1) of the buildings located at 223 Hudson Street was identified as "Packing Boxes" in 1894 and "Packing Box Factory" in 1905. Furthermore, the property consisted of a gasoline filling station (with automobile repairs) from the early 1930's through 1980's.

Visual inspection of the site and/or information gathered from the records review revealed the following:

- Visual indications, i.e., concrete mat, fill ports, of potential underground storage tanks (USTs) were identified at the subject premises. The concrete mat was identified at the southern portion of the property (beneath the construction trailer) and the fill ports were observed within the city sidewalk outside the northeastern portion of the property. Further, the client provided SMES with various documentation in connection with USTs associated with the target property. These documents mainly revealed that seven (7) 550-gallon gasoline USTs were abandoned on the property in 1987 and that three (3) 550-gallon gasoline USTs were removed during 1990.

- An underground vehicle lift was located at the site during its usage as an automobile service station. The vehicle lift was located at the northeastern portion.
- Information obtained from a geotechnical investigation (Soil Mechanics Drilling Corp, January 2013), which included the drilling of two (2) soil test borings, revealed that the areas drilled are blanketed by from 11 feet to 13 feet of loose soil and rubble fill and soft compressible peat, underlain, generally, by a moderately dense naturally bedded coarse to fine sand with traces of silt and gravel extending to the deepest depths drilled.

9.0 OPINIONS

- Concerning the Hudson River PCBs Site (NPL Site and CERCLIS Site), New York City Anthrax Sites (CERCLIS Site), Federal Building/GSA Site (CERC-NFRAP Site), SWF/LF Sites, SWRCY Sites, West & Watts Development Site (BROWNSFIELDS Site), and US Dept of Homeland Security Site (HSDWS Site), based on currently available information pertaining to the environmental conditions identified at each of these properties, the environmental media affected, and/or their distances away from the subject property, these sites are not anticipated to be representative of RECs.
- Excluding an “active” status SPILL Site (SPILL #: 0801296) located at 231-239 Hudson Street, based on site specific information related to the extent of the release, resource affected, “closed” status, and/or distance away, each of the LTANK/Historical LTANK Sites and SPILL/Historical SPILL Sites identified within applicable search distances are not representative of RECs. The aforementioned “active” status SPILL Site (231-239 Hudson Street) is situated just north of the property and appears to be the same location as the construction site (future hotel). Currently available documentation indicated that the resource affected including the groundwater wherein remediation commenced in March 2012. Further, this site was listed as a UST Site where three (3) USTs were removed

during March 2012. Due to the close proximity of this spill site to the property and documented groundwater contamination, the “active” status SPILL Site located at 231-239 Hudson Street is representative of a REC.

- The DRY CLEANER Site (Soho Dry Cleaning) identified in proximity to the property was not cited within other federal, state, or local databases as a property with contamination or requiring remedial efforts. As such, this site is not representative of a REC.
- Based on their distances away, each of the MANUFACTURED GAS PLANT Sites (Con Edison - Canal Street Works MGP, Con Edison - Cross Little Water Streets MGP, Con Edison - Hester Street Gas Works MGP, Con Edison - Roosevelt Street Station MGP) do not appear to be representative of RECs.
- The property consisted of a gasoline filling station (with automobile repairs) from the early 1930's through 1980's. Currently available information indicated that, during this occupancy, the site included a service station building, USTs, gasoline pumps, and underground vehicle lift. Based on these findings, historical use of the property as a gasoline filling station is representative of a REC. Further, the subject property is listed as an E DESIGNATION Site within the Zoning Maps of the City of New York (Description: Window Wall Attenuation & Alternative Ventilation and Underground Gasoline Storage Tanks Testing Protocol). Accordingly, future work activities will be warranted to satisfy NYCDEP Office of Environmental Remediation (OER) requirements in association with the E DESIGNATION.

- Information obtained from a geotechnical investigation (Soil Mechanics Drilling Corp, January 2013), which included the drilling of two (2) soil test borings, revealed that the areas drilled are blanketed by from 11 feet to 13 feet of loose soil and rubble fill and soft compressible peat, underlain, generally, by a moderately dense naturally bedded coarse to fine sand with traces of silt and gravel extending to the deepest depths drilled. Due to its unknown origin and environmental quality, the presence of fill material at the subject property is representative of a REC.

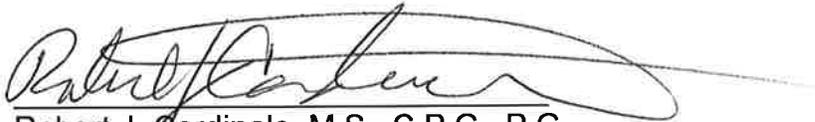
10.0 CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of current ASTM Practice E 1527 and United States Environmental Protection Agency (USEPA) “all appropriate inquiry” standards and practices at 489 Canal Street (a.k.a. 219 Hudson Street), in the Borough of Manhattan, State of New York, the property. This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the property with the exception of the following:

- The presence of an “active” status SPILL Site with documented groundwater contamination at 231-239 Hudson Street.
- The historical use of the property as a gasoline filling station.
- Due to its unknown origin and environmental quality, the presence of fill material at the subject property.

11.0 SIGNATURE(S)


Daren Murphy, CES
Environmental Scientist


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


Carl Vernick, P.E.
President

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

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

12.0 DISCLAIMER

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

APPENDIX

SITE PHOTOGRAPHS



VIEW OF SUBJECT PROPERTY



VIEW OF SUBJECT PROPERTY



VIEW OF SUBJECT PROPERTY



VIEW OF SUBJECT PROPERTY



VIEW OF SUBJECT PROPERTY



VIEW OF INSIDE OF WOOD FRAME SHED



VIEW OF CONCRETE MAT (BENEATH CONSTRUCTION TRAILER)



VIEW OF FILL PORTS OUTSIDE N/E PORTION OF PROPERTY

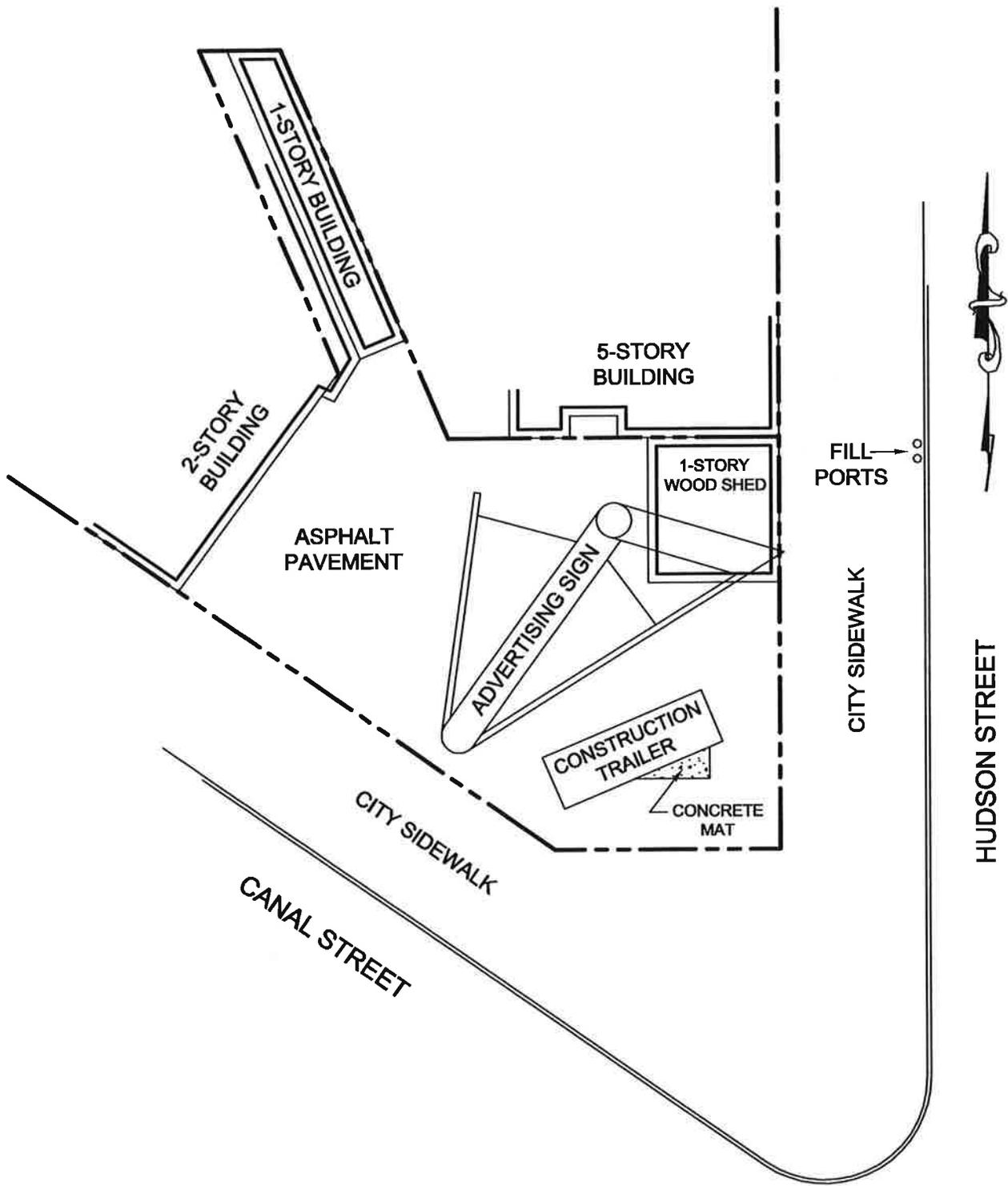
SITE/VICINITY MAP



SUBJECT PROPERTY

<p><i>SOIL MECHANICS ENVIRONMENTAL SERVICES</i></p>	<p><i>TITLE:</i> SITE/VICINITY MAP MANHATTAN, N.Y.</p>	<p>↑</p>
<p><i>3770 MERRICK ROAD SEAFORD, NEW YORK 11783 PH (516) 221-7500 FAX (516) 679-1900</i></p>	<p><i>DATE: 1/7/13</i></p> <p><i>JOB #: 12-703</i></p>	<p>N</p>

SITE PLAN



**SOIL MECHANICS
ENVIRONMENTAL SERVICES**

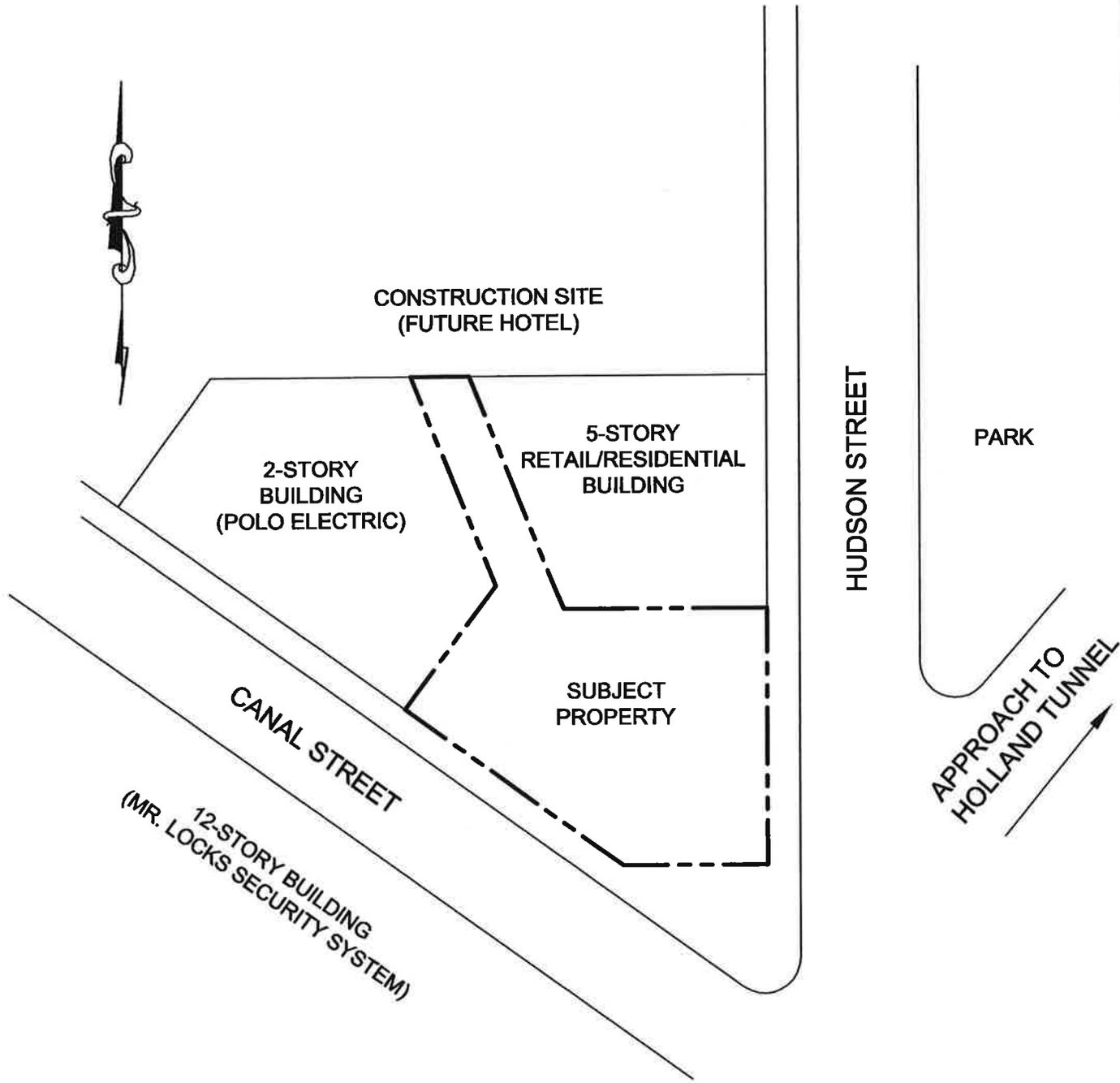
3770 MERRICK ROAD - SEAFORD, L I, NEW YORK - (516) 221-7500

SITE PLAN

MANHATTAN, NEW YORK

SCALE:	N.T.S.	DATE:	JANUARY 3, 2013	JOB NO.	12S703
		REVISED:			JMR

ADJOINING PROPERTIES MAP



CONSTRUCTION SITE
(FUTURE HOTEL)

2-STORY
BUILDING
(POLO ELECTRIC)

5-STORY
RETAIL/RESIDENTIAL
BUILDING

SUBJECT
PROPERTY

CANAL STREET

HUDSON STREET

PARK

APPROACH TO
HOLLAND TUNNEL

12-STORY BUILDING
(MR. LOCKS SECURITY SYSTEM)

**SOIL MECHANICS
ENVIRONMENTAL SERVICES**

3770 MERRICK ROAD - SEAFORD, L I, NEW YORK - (516) 221-7500

ADJOINING PROPERTIES MAP

MANHATTAN, NEW YORK

SCALE:	N.T.S.	DATE:	JANUARY 3, 2013	JOB NO.	12S703
		REVISED:			JMR

TOPOGRAPHIC MAP



SUBJECT PROPERTY

***SOIL MECHANICS
ENVIRONMENTAL SERVICES***

***3770 MERRICK ROAD
SEAFORD, NEW YORK 11783
PH (516) 221-7500
FAX (516) 679-1900***

**TITLE:
TOPOGRAPHIC MAP
MANHATTAN, N.Y.**

DATE: 1/7/13

JOB #: 12-703



N

ENVIRONMENTAL LIEN & AUL SEARCH REPORT

Canal Street/Hudson Street

489 Canal Street
New York, NY 10013

Inquiry Number: 3470507.7
December 10, 2012

EDR Environmental Lien and AUL Search



440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

489 Canal Street
Canal Street/Hudson Street
New York, NY 10013

RESEARCH SOURCE

Source 1:

New York City Register
New York, NY

PROPERTY INFORMATION

Deed 1:

Type of Deed: deed
Title is vested in: 489 Southwest Canal St, Inc
Title received from: 489 Canal Realty Corporation
Deed Dated: 10/19/2004
Deed Recorded: 10/22/2004
Book: NA
Page: NA
Volume: NA
Instrument: 2004102002009001
Docket: NA
Land Record Comments: see exhibit
Miscellaneous Comments: NA

Legal Description: see exhibit

Legal Current Owner: 489 Southwest Canal St, Inc

Parcel # / Property Identifier: block 594 lot 108

Comments: see exhibit

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found

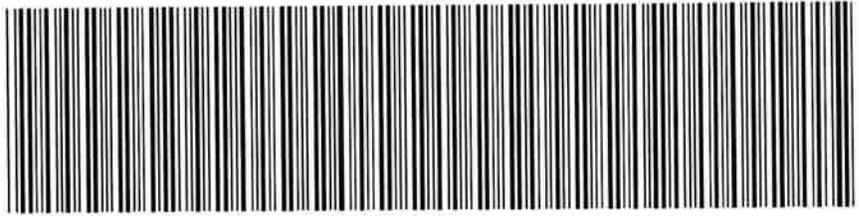
OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found Not Found

Deed Exhibit 1

**NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER**

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument. The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.



2004102002009001002E920D

RECORDING AND ENDORSEMENT COVER PAGE

PAGE 1 OF 3

Document ID: 2004102002009001

Document Date: 10-19-2004

Preparation Date: 10-21-2004

Document Type: DEED

Document Page Count: 2

PRESENTER:

AVIHU GERAFI
1110 WESTWOOD RD
HEWLETT, NY 11557
516-369-5866

RETURN TO:

AVIHU GERAFI
1110 WESTWOOD RD
HEWLETT, NY 11557

PROPERTY DATA

Borough	Block	Lot	Unit	Address
MANHATTAN	594	108	Entire Lot	219 HUDSON STREET
Property Type: NON-RESIDENTIAL VACANT LAND				

CROSS REFERENCE DATA

CRFN _____ or Document ID _____ or _____ Year _____ Reel _____ Page _____ or File Number _____

PARTIES

GRANTOR/SELLER:

489 CANAL REALTY CORPORATION
1110 WESTWOOD RD
HEWLETT, NY 11557

GRANTEE/BUYER:

489 SOUTHWEST CANAL ST INC
27 MAIN STREET
EAST ROCKAWAY, NY 11518

FEES AND TAXES

Mortgage		Recording Fee: \$	47.00
Mortgage Amount:	\$	Affidavit Fee: \$	0.00
Taxable Mortgage Amount:	\$	NYC Real Property Transfer Tax Filing Fee:	
Exemption:			\$ 165.00
TAXES: County (Basic):	\$	NYS Real Estate Transfer Tax:	
City (Additional):	\$		\$ 1,080.00
Spec (Additional):	\$		
TASF:	\$		
MTA:	\$		
NYCTA:	\$		
Additional MRT:	\$		
TOTAL:	\$		0.00



**RECORDED OR FILED IN THE OFFICE
OF THE CITY REGISTER OF THE
CITY OF NEW YORK**

Recorded/Filed 10-22-2004 18:12

City Register File No.(CRFN):

2004000656653

Annette McMill

City Register Official Signature

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT—THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.

THIS INDENTURE, made the 19th day of Oct, in the year 2004

BETWEEN 489 Canal Realty Corporation, having its offices at 489 Canal Street, New York, New York

party of the first part, and 489 Southwest Canal St., Inc., having its offices at 27 Main Street, East Rockaway, New York 11518

party of the second part,

WITNESSETH, that the party of the first part, in consideration of One Dollare and xx/00----- dollars paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the City, County and State of New York, as more particularly described in Schedule "A" annexed hereto and made a part hereof.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; **TOGETHER** with the appurtenances and all the estate and rights of the party of the first part in and to said premises; **TO HAVE AND TO HOLD** the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose. The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

by: 489 Canal Realty Corporation
Samuel Jerafi, Pres.

STATE OF NEW YORK, COUNTY OF NASSAU

On the 19th day of OCT in the year 2004
before me, the undersigned, personally appeared

Samuel Jerafi

, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person on behalf of which the individual(s) acted, executed the instrument.

RONALD M. ARRICK
Notary Public, State of New York
No. 01AR0100403
Qualified in Nassau County
Commission Expires August 31, 2005

STATE OF _____, COUNTY OF _____

On the _____ day of _____ in the year _____
before me, the undersigned, a Notary Public in and for said State,
personally appeared

_____ the

subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he/she/they reside(s) in

(if the place of residence is in a city, include the street and street number if any, thereof),
that he/she/they know(s)

to be the individual described in and who executed the foregoing instrument; that said subscribing witness was present and saw said

execute the same; and that said witness at the same time subscribed his/her/their name(s) as a witness thereto

[add the following if the acknowledgment is taken outside NY State] and that said subscribing witness made such appearance before the undersigned in the _____ (insert the city or other political subdivision and the State or county or other place the proof was taken).

STATE OF _____

On the _____ day of _____ in the year _____
before me, the undersigned, personally appeared

_____ personally known to me or proved to me on

the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person on behalf of which the individual(s) acted, executed the instrument

[add the following if the acknowledgment is taken outside NY State] and that said subscribing witness made such appearance before the undersigned in the _____ (insert the city or other political subdivision and the State or county or other place the acknowledgment was taken)

STATE OF _____, COUNTY OF _____

On the _____ day of _____ in the year _____
before me personally came

to me known, who, being by me duly sworn, did depose and say

that he resides at

that he is the

of

the corporation described in and which executed the foregoing

instrument; that he knows the seal of said corporation; that the

seal affixed to said instrument is such corporate seal; that it was

so affixed by order of the board of directors of said corporation,

and that he signed his name thereto by like order.

Warranty and Sale Deed

WITH COVENANT AGAINST GRANTOR'S ACTS

TITLE No. _____

489 Canal Realty Corporation
TO

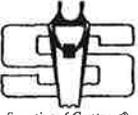
489 Southwest Canal St., Inc.

SECTION 2
BLOCK 594
LOT 108
COUNTY OR TOWN New York
STREET ADDRESS 489/93 Canal Street

Recorded at Request of STEWART TITLE*

RETURN BY MAIL TO:

Jacobowitz & Arrick, P.C.
PO Box 209
Cedarhurst, NY
11516-0209

 Distributed by
STEWART TITLE*
INSURANCE COMPANY
300 EAST 42nd STREET, 10th FLOOR
NEW YORK, NEW YORK 10017
(212) 922-0050 Fax (212) 983-1133
Surety of Contract*

PARCEL A

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Borough of Manhattan, City, County and State of New York, bounded and described as follows:

BEGINNING at the corner formed by the intersection of the northerly side of Watts Street and the westerly side of Hudson Street;

RUNNING THENCE northerly along the westerly side of Hudson Street, 57 feet 3 1/2 inches;

THENCE Westerly and part of the distance through a foundation party wall, if any, along a line forming an angle of 89 degrees 46 minutes and no seconds on its southerly side with the westerly side of Hudson Street, 32 feet to an angle point;

THENCE continuing westerly and part of the distance through a foundation party wall, if any, along a line forming an angle of 181 degrees 50 minutes no seconds on its southerly side with the last mentioned course, 13 feet 9 inches;

THENCE northerly along a line forming an angle of 113 degrees 45 minutes no seconds on its easterly side with the last mentioned course and partly along the easterly face of the easterly independent wall of the building on the premises described herein, 56 feet 8 1/2 inches to the land now or late of Tunis Van Winkle;

THENCE Westerly along said land now or late of Tunis Van Winkle on a line forming an angle of 110 degrees 34 minutes 20 seconds more or less on its southerly side with the last mentioned course, 7 feet 4 inches;

THENCE southerly 53 feet 1/2 inch, along a line forming an angle of 67 degrees 42 minutes 20 seconds, more or less on its easterly side with the last mentioned course until it intersects a line at a point thereon distant 32 feet, 3 inches northeasterly from the northeasterly side of Canal Street drawn at an angle of 90 degrees 23 minutes no seconds on its easterly side from a point on the northeasterly side of Canal Street at a point thereon distant 101 feet, 6 inches from the southeasterly corner of Canal Street and Renwick Street;

THENCE Southwesterly along a line forming an angle of 120 degrees 49 minutes 30 seconds on its westerly side with the last mentioned course, part of the distance through a foundation party wall, if any, 32 feet 3 inches to the northeasterly side of Canal Street, at a point thereon distant 101 feet 6 inches from the southeasterly corner of Canal Street and Renwick Street;

THENCE southeasterly along the northeasterly side of Canal Street, 44 feet 7 3/4 inches to the intersection of the northeasterly side of Canal Street with the northerly side of Watts Street;

PARCEL B

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Borough of Manhattan, City County, and State of New York, bounded and described as follows:

BEGINNING at a point on the northeasterly side of Canal Street distant 44 feet 6 inches westerly from the corner formed by the intersection of the northerly side of Canal Street with the northerly side of Watt Street;

RUNNING THENCE northerly at right angles to Canal Street and through a party wall, 32 feet 3 inches;

THENCE westerly parallel with Canal Street, 8 inches;

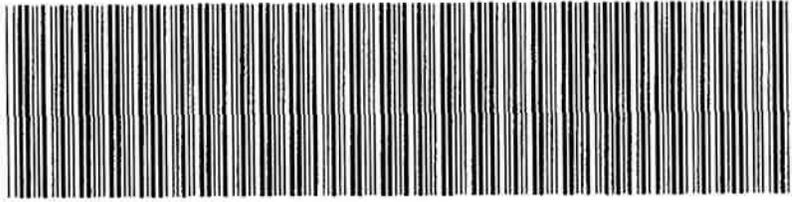
THENCE in a more northerly direction 16 feet 10 inches;

THENCE southerly at right angles to Canal Street 36 feet 3 inches to the northerly side of Canal Street;

THENCE easterly along said northerly side of Canal Street 16 feet 11 inches to the point or place of BEGINNING;

being said several distances and dimensions more or less.

**NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER**



2004102002009001002S5C8C

SUPPORTING DOCUMENT COVER PAGE

PAGE 1 OF 1

Document ID: 2004102002009001
Document Type: DEED

Document Date: 10-19-2004

Preparation Date: 10-21-2004

ASSOCIATED TAX FORM ID: 2004102000617

SUPPORTING DOCUMENTS SUBMITTED:

RP - 5217 REAL PROPERTY TRANSFER REPORT

Page Count
1

**AFFIDAVIT OF COMPLIANCE
WITH SMOKE DETECTOR REQUIREMENT
FOR ONE- AND TWO-FAMILY DWELLINGS**

State of New York)
) SS.:
County of)

The undersigned, being duly sworn, depose and say under penalty of perjury that they are the grantor and grantee of the real property or of the cooperative shares in a cooperative corporation owning real property located at

219 HUDSON STREET

	Street Address			Unit/Apt.
MANHATTAN	New York,	594	108	(the "Premises");
Borough		Block	Lot	

That the Premises is a one or two family dwelling, or a cooperative apartment or condominium unit in a one- or two-family dwelling, and that installed in the Premises is an approved and operational smoke detecting device in compliance with the provisions of Article 6 of Subchapter 17 of Chapter 1 of Title 27 of the Administrative Code of the City of New York concerning smoke detecting devices;

That they make affidavit in compliance with New York City Administrative Code Section 11-2105 (g). (The signatures of at least one grantor and one grantee are required, and must be notarized).

<p style="text-align: center;">Name of Grantor (Type or Print)</p> <hr/> <p style="text-align: center;">Signature of Grantor</p>	<p style="text-align: center;">Name of Grantee (Type or Print)</p> <hr/> <p style="text-align: center;">Signature of Grantee</p>
<p>Sworn to before me this _____ date of _____ 19 _____</p>	<p>Sworn to before me this _____ date of _____ 19 _____</p>

These statements are made with the knowledge that a willfully false representation is unlawful and is punishable as a crime of perjury under Article 210 of the Penal Law.

NEW YORK CITY REAL PROPERTY TRANSFER TAX RETURNS FILED ON OR AFTER FEBRUARY 6th, 1990, WITH RESPECT TO THE CONVEYANCE OF A ONE- OR TWO-FAMILY DWELLING, OR A COOPERATIVE APARTMENT OR A CONDOMINIUM UNIT IN A ONE- OR TWO-FAMILY DWELLING, WILL NOT BE ACCEPTED FOR FILING UNLESS ACCOMPANIED BY THIS AFFIDAVIT.

FOR CITY USE ONLY

C1. County Code C2. Date Deed Recorded / /
Month Day Year

C3. Book OR C4. Page
 C5. CRFN



REAL PROPERTY TRANSFER REPORT

STATE OF NEW YORK
STATE BOARD OF REAL PROPERTY SERVICES

RP - 5217NYC

(Rev 11/2002)

PROPERTY INFORMATION

1. Property Location 489 Canal Street New York
STREET NUMBER STREET NAME BOROUGH ZIP CODE

2. Buyer Name 489 Southwest Canal St., Inc.
LAST NAME / COMPANY FIRST NAME

3. Tax Billing Address 27 Main Street, East Rockaway NY 11518
Indicate where future Tax Bills are to be sent if other than buyer address (at bottom of form)
LAST NAME / COMPANY FIRST NAME STREET NUMBER AND STREET NAME CITY OR TOWN STATE ZIP CODE

4. Indicate the number of Assessment Roll parcels transferred on the deed 0 0 1 # of Parcels OR Part of a Parcel

5. Deed Property Size X OR ACRES
FRONT FEET DEPTH

8. Seller Name 489 Canal Realty Corporation
LAST NAME / COMPANY FIRST NAME

9. Check the box below which most accurately describes the use of the property at the time of sale:
 A One Family Residential C Residential Vacant Land E Commercial G Entertainment / Amusement I Industrial
 B 2 or 3 Family Residential D Non-Residential Vacant Land F Apartment H Community Service J Public Service

4A. Planning Board Approval - N/A for NYC
 4B. Agricultural District Notice - N/A for NYC
 Check the boxes below as they apply:
 6. Ownership Type is Condominium
 7. New Construction on Vacant Land

SALE INFORMATION

10. Sale Contract Date N/A
Month Day Year

11. Date of Sale / Transfer 10 / 19 / 04
Month Day Year

12. Full Sale Price 270 000
(Full Sale Price is the total amount paid for the property including personal property. This payment may be in the form of cash, other property or goods, or the assumption of mortgages or other obligations.) Please round to the nearest whole dollar amount.

13. Indicate the value of personal property included in the sale none

14. Check one or more of these conditions as applicable to transfer:
 A Sale Between Relatives or Former Relatives
 B Sale Between Related Companies or Partners in Business
 C One of the Buyers is also a Seller
 D Buyer or Seller is Government Agency or Lending Institution
 E Deed Type not Warranty or Bargain and Sale (Specify Below)
 F Sale of Fractional or Less than Fee Interest (Specify Below)
 G Significant Change in Property Between Taxable Status and Sale Dates
 H Sale of Business is Included in Sale Price
 I Other Unusual Factors Affecting Sale Price (Specify Below)
 J None

ASSESSMENT INFORMATION - Data should reflect the latest Final Assessment Roll and Tax Bill

15. Building Class 1 0 16. Total Assessed Value (of all parcels in transfer) 594

17. Borough, Block and Lot / Roll Identifier(s) (If more than three, attach sheet with additional identifier(s))
New York 594 108

CERTIFICATION

I certify that all of the items of information entered on this form are true and correct (to the best of my knowledge and belief) and I understand that the making of any willful false statement of material fact herein will subject me to the provisions of the penal law relative to the making and filing of false instruments.

BUYER

 10 19 04
BUYER SIGNATURE DATE

27 Main Street
STREET NUMBER STREET NAME (AFTER SALE)

East Rockaway NY 11518
CITY OR TOWN STATE ZIP CODE

BUYER'S ATTORNEY

LAST NAME FIRST NAME

AREA CODE TELEPHONE NUMBER

 10 19 04
SELLER SIGNATURE DATE

FOR CITY USE ONLY

C1. County Code C2. Date Deed Recorded / /
 Month Day Year

C3. Book OR C4. Page
 C5. CRFN



REAL PROPERTY TRANSFER REPORT
 STATE OF NEW YORK
 STATE BOARD OF REAL PROPERTY SERVICES
RP - 5217NYC

(Rev 11/2002)

PROPERTY INFORMATION

1. Property Location 219 HUDSON STREET MANHATTAN 10013
 STREET NUMBER STREET NAME BOROUGH ZIP CODE

2. Buyer Name 489 SOUTHWEST CANAL ST INC
 LAST NAME / COMPANY FIRST NAME

3. Tax Billing Address Indicate where future Tax Bills are to be sent if other than buyer address (at bottom of form)
 LAST NAME / COMPANY FIRST NAME

4. Indicate the number of Assessment Roll parcels transferred on the deed 1 # of Parcels OR Part of a Parcel

5. Deed Property Size FRONT FEET X DEPTH OR ACRES

8. Seller Name 489 CANAL REALTY CORPORATION
 LAST NAME / COMPANY FIRST NAME

9. Check the box below which most accurately describes the use of the property at the time of sale:
 A One Family Residential C Residential Vacant Land E Commercial G Entertainment / Amusement I Industrial
 B 2 or 3 Family Residential D Non-Residential Vacant Land F Apartment H Community Service J Public Service

4A. Planning Board Approval - N/A for NYC
 4B. Agricultural District Notice - N/A for NYC
 Check the boxes below as they apply:
 6. Ownership Type is Condominium
 7. New Construction on Vacant Land

SALE INFORMATION

10. Sale Contract Date 10 / 19 / 2004
 Month Day Year

11. Date of Sale / Transfer 10 / 19 / 2004
 Month Day Year

12. Full Sale Price 2,700,000
 (Full Sale Price is the total amount paid for the property including personal property. This payment may be in the form of cash, other property or goods, or the assumption of mortgages or other obligations.) Please round to the nearest whole dollar amount.

13. Indicate the value of personal property included in the sale

14. Check one or more of these conditions as applicable to transfer:

A Sale Between Relatives or Former Relatives
 B Sale Between Related Companies or Partners in Business
 C One of the Buyers is also a Seller
 D Buyer or Seller is Government Agency or Lending Institution
 E Deed Type not Warranty or Bargain and Sale (Specify Below)
 F Sale of Fractional or Less than Fee Interest (Specify Below)
 G Significant Change in Property Between Taxable Status and Sale Dates
 H Sale of Business is Included in Sale Price
 I Other Unusual Factors Affecting Sale Price (Specify Below)
 J None

ASSESSMENT INFORMATION - Data should reflect the latest Final Assessment Roll and Tax Bill

15. Building Class 1,0 16. Total Assessed Value (of all parcels in transfer)

17. Borough, Block and Lot / Roll Identifier(s) (If more than three, attach sheet with additional Identifier(s))
 MANHATTAN 594 108

CERTIFICATION

I certify that all of the items of information entered on this form are true and correct (to the best of my knowledge and belief) and I understand that the making of any willful false statement of material fact herein will subject me to the provisions of the penal law relative to the making and filing of false instruments.

BUYER

BUYER SIGNATURE _____ DATE _____

STREET NUMBER _____ STREET NAME (AFTER SALE) _____

CITY OR TOWN _____ STATE _____ ZIP CODE _____

BUYER'S ATTORNEY

LAST NAME _____ FIRST NAME _____

516 295-5400
 AREA CODE TELEPHONE NUMBER

SELLER

SELLER SIGNATURE _____ DATE _____

CERTIFICATION

I certify that all of the items of information entered on this form are true and correct (to the best of my knowledge and belief) and understand that the making of any willful false statement of material fact herein will subject me to the provisions of the penal law relative to the making and filing of false instruments.

BUYER

BUYER'S ATTORNEY

BUYER SIGNATURE		DATE	LAST NAME		FIRST NAME
STREET NUMBER		STREET NAME (AFTER SALE)		516	295-5400
CITY OR TOWN		STATE	ZIP CODE	SELLER	
			SELLER SIGNATURE	DATE	

CITY DIRECTORY ABSTRACT

Canal Street/Hudson Street

489 Canal Street
New York, NY 10013

Inquiry Number: 3470507.6
December 05, 2012

The EDR-City Directory Abstract



440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

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 2012. 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>IP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2012	Cole Information Services	X	X	X	-
2007	Cole Information Services	-	X	X	-
2006	Hill-Donnelly Information Services	-	X	X	-
2000	Cole Information Services	-	X	X	-
1998	NYNEX Telephone	-	X	X	-
1996	NYNEX	-	-	-	-
1993	NYNEX Telephone	-	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	-
1968	New York Telephone	-	X	X	-
1963	New York Telephone	-	X	X	-
1958	New York Telephone	X	X	X	-
1956	New York Telephone	-	X	X	-
1950	New York Telephone	-	X	X	-
1947	New York Telephone	-	X	X	-
1942	New York Telephone	-	X	X	-
1938	New York Telephone	-	X	X	-
1934	R. L. Polk & Co.	-	X	X	-
1931	Manhattan and Bronx Directory Publishing Company Residential Directory	-	X	X	-
1927	New York Telephone	-	X	X	-
1923	R. L. Polk & Co.	-	X	X	-
1920	R. L. Polk & Co.	X	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

<u>Address</u>	<u>Type</u>	<u>Findings</u>
219 Hudson Street	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

489 Canal Street
New York, NY 10013

FINDINGS DETAIL

Target Property research detail.

CANAL

489 CANAL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1988	DIRECT TRANSPORTATION CO	NYNEX Telephone
1983	DIRECT TRANSPORTATION CO	New York Telephone
1978	DIRECT TRANSPORTATION CO	New York Telephone
1958	FRAZER S SVCE STA	New York Telephone
1920	Danna Jacob	R. L. Polk & Co.
	Meurer Peter	R. L. Polk & Co.

CANAL ST

489 CANAL ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2012	SOHO AUTO REPAIR	Cole Information Services
1983	Direct Transportation Co	New York Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

CANAL

472 CANAL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1923	Roese C & Co RTN Chas Roese plating	R. L. Polk & Co.

474 CANAL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1927	STECKLER HARRY CIGARS	New York Telephone
1920	Wagner Sol	R. L. Polk & Co.

476 CANAL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1923	Globe Dairy Corp NY Jno Keogh pres Jno Cleary v p Anna V Waish sec Jos Farria treas	R. L. Polk & Co.
	Farria Jos treas Globe Dairy Corp	R. L. Polk & Co.
	Cleary Jno v p Globe Dairy Corp	R. L. Polk & Co.
	Walsh Anna V sec Globe Dairy Corp	R. L. Polk & Co.
	Keogh Jno pres Globe Dairy Corp	R. L. Polk & Co.

477 CANAL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	DAsaro Jos C lab	R. L. Polk & Co.
	Green Roderick S restr	R. L. Polk & Co.
	Lewis Edwin B clk	R. L. Polk & Co.

478 CANAL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Basisle Jno	R. L. Polk & Co.

479 CANAL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1923	Tranter Wm E Inc NY hdw	R. L. Polk & Co.
1920	Tranter Wm E NY inf unobtainable hdw	R. L. Polk & Co.

FINDINGS

483 CANAL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1923	Hudson Paint Works RTN Wm E Tranter	R. L. Polk & Co.

485 CANAL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Tranter Wm E Hudson Paint Works	R. L. Polk & Co.

491 CANAL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1931	WOOD EDITH	Manhattan and Bronx Directory Publishing Company Residential Directory
	COCCASO EMANUEL	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	KINSLER H ROOFING	New York Telephone
1923	Kinsler Herman roofing	R. L. Polk & Co.
1920	Barrett Katherine pkr	R. L. Polk & Co.
	Guido Edwin silk finisher	R. L. Polk & Co.
	Kinsler Herman roofer	R. L. Polk & Co.
	Marsci Louis tailor	R. L. Polk & Co.
	Murray Jas lab	R. L. Polk & Co.
	Pelligrino Constantino	R. L. Polk & Co.
	Pellegrino Constantino candy mkr	R. L. Polk & Co.

493 CANAL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1931	SALFI GIUSEPPE	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	MARTORANO JOHN CIGARS	New York Telephone
1920	Resnik Peter junk	R. L. Polk & Co.
	Resnik Barnett junk	R. L. Polk & Co.

495 CANAL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1988	HELLENIC WIRING CONTRCTNG CO	NYNEX Telephone
1978	GRAND AUTO SVCE	New York Telephone
1973	CANAL BAR	New York Telephone
1968	CANAL BAR	New York Telephone
1963	CANAL BAR	New York Telephone
1958	CANAL BAR	New York Telephone
1956	CANAL BAR	New York Telephone
1950	CANAL BAR & GRILL	New York Telephone

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1947	CANAL BAR & GRILL	New York Telephone
1942	CANAL BAR & GRILL	New York Telephone
1938	CANAL BAR & GRILL	New York Telephone
1934	Canal Lunch RTN Louis Miller	R. L. Polk & Co.
1927	WETZEL OTTO LUNCH	New York Telephone
	HALPER HERBERT C RL EST	New York Telephone
1920	Krieger Philip Acme Hospital & Druggists Glassware Co	R. L. Polk & Co.

497 CANAL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1998	HELLINC WIRING CONTRACTING	NYNEX Telephone
1993	HELLENIC WIRING CONTRCTNG CO	NYNEX Telephone
1983	HECOX LAURENCE	New York Telephone
	SMITH WM A	New York Telephone
1978	HECOX LAURENCE	New York Telephone
	SMITH WM A	New York Telephone
1973	PRECISE TRUCKING & MESSENGER INC	New York Telephone
1968	DICK S HERO SHOP	New York Telephone
	DICK S HERO SHOP INC	New York Telephone
1963	DICKS HERO SHOP	New York Telephone
1920	Newman Edith sec treas I Rathaus Truelding Co Inc	R. L. Polk & Co.
	Rathaus Irving pres I Rathaus Trucking Co Inc	R. L. Polk & Co.
	Rathaus Trucking Co Inc NY Irving Rathaus pres Edith Newman sec treas	R. L. Polk & Co.

499 CANAL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1998	LOBRUTTO FORWARDING CO	NYNEX Telephone
1993	EMERALD FIRE PROTITN INC	NYNEX Telephone
	LOBRUTTO FORWARDING CO	NYNEX Telephone
	MAYOR PARK & RIDE	NYNEX Telephone
1988	ABRAMSON M L	NYNEX Telephone
	FORD J A	NYNEX Telephone
	LOBRUTTO FORWARDING CO	NYNEX Telephone
1983	UNICORN ART STUDIO	New York Telephone
	UNIGROUP INC THE	New York Telephone
1968	DUFFY JAS	New York Telephone

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1968	ZLOTNICK MORRIS CABLES	New York Telephone
1963	DUFFY JAS	New York Telephone
	ZLOTNICK MORRIS CABLES	New York Telephone
1958	ZLOTNICK MORRIS CABLES	New York Telephone
1956	ZLOTNICK MORRIS CABLES	New York Telephone
1950	ZLOTNICK MORRIS CABLES	New York Telephone
1942	ZLOTNICK MORRIS CABLES	New York Telephone
1938	ZLOTNICK MORRIS CABLES	New York Telephone
1934	Conrady Max J Conrady Realty Co	R. L. Polk & Co.
	Cohen Saml Cohen & Thalor	R. L. Polk & Co.
	Conrady Reatty Co RTN Max J Conrady sec	R. L. Polk & Co.
	Cohen & Thalor Saml Cohen fruits whol	R. L. Polk & Co.
1923	Moran Bros Trucking Co Inc NY Wm Moran pres Hy Vincent sec Roabt Moran treas	R. L. Polk & Co.
1920	Levy Noah tailor	R. L. Polk & Co.

501 CANAL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1988	BROWN LEFFERTS	NYNEX Telephone
	BRUNO TOM	NYNEX Telephone
	GRAME TERRENCE	NYNEX Telephone
1983	KIBBE K	New York Telephone
	GREENBERG WENDY	New York Telephone
	BRAFNFMAN A	New York Telephone
1958	LOU S LUNCHEONETTE	New York Telephone
1934	Plaza Sandwich Shop Edw Igov	R. L. Polk & Co.
1931	COUGHLIN CATH	Manhattan and Bronx Directory Publishing Company Residential Directory
	COUGHLIN CHAS P FIREMAN	Manhattan and Bronx Directory Publishing Company Residential Directory
	KITTMAN THERESA	Manhattan and Bronx Directory Publishing Company Residential Directory
	POZAR LEOPOLD	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	NEW COLONIAL MILLS	New York Telephone
	GANZMAN BROS TEA COFFEE	New York Telephone
1920	Sullivan Kath	R. L. Polk & Co.
	Sullivan Eliz	R. L. Polk & Co.
	Samara Jno lab	R. L. Polk & Co.

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Loughlin Jno hlpr	R. L. Polk & Co.
	Loughlin Chas driver	R. L. Polk & Co.
	Kittman Theresa Metzner	R. L. Polk & Co.
	Kittman Eliz	R. L. Polk & Co.
	Coughlin Mary A bkbndr	R. L. Polk & Co.
	Coughlin Kath dictaphone opr	R. L. Polk & Co.
	Coughlin Jno F foremn	R. L. Polk & Co.
	Coughlin Chas P leather ctr	R. L. Polk & Co.

CANAL ST

474 CANAL ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1927	Steckler Harry cigars	New York Telephone

491 CANAL ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1931	Coccaso Emanuel	Manhattan and Bronx Directory Publishing Company Residential Directory
	Wood Edith	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Kinsler H roofing	New York Telephone

493 CANAL ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1931	Salfi Giuseppe	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Martorano John cigars	New York Telephone

495 CANAL ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2012	RAIKOS ELECTRIC LLC	Cole Information Services
1927	Halper Herbert C rl est	New York Telephone
	Wetzel Otto lunch	New York Telephone

497 CANAL ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2012	HELLENIC WIRING CONTRACTING	Cole Information Services
2007	THEOMETRICS TECHNOLOGIES LLC	Cole Information Services
	STATHOPOULOS REALTY CO	Cole Information Services
	HELLENIC WIRING CONTRACTING	Cole Information Services

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	h Stathopoulos Sotirios	Hill-Donnelly Information Services
	Polo Electric	Hill-Donnelly Information Services
	Hellenic Wiring Contracting	Hill-Donnelly Information Services
2000	S STATHOPOULOS	Cole Information Services
	HL INC WIRG CONTRNG	Cole Information Services
1983	Hecox Laurence	New York Telephone
	Smith Wm A	New York Telephone
499 CANAL ST		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2012	DISTINCTIVE WINDOW TREATMENT	Cole Information Services
2007	ROGOL PHOTO	Cole Information Services
2006	No Current Listing	Hill-Donnelly Information Services
2000	J AUGUSTYN	Cole Information Services
	2 P EPSTEIN	Cole Information Services
	2 MICHAEL ROGOL	Cole Information Services
	LOBRUTTO FWDG CO	Cole Information Services
	TARA PARKING	Cole Information Services
	3 M L ABRAMSON	Cole Information Services
1983	Unigroup Inc The	New York Telephone
	Unicorn Art Studio	New York Telephone
501 CANAL ST		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	h Fitzgerald Rita	Hill-Donnelly Information Services
	Casey Patrick Joseph	Hill-Donnelly Information Services
	Casey Patrick Joseph	Hill-Donnelly Information Services
2000	PATSY BERGLUND	Cole Information Services
	LEFFERTS BROWN	Cole Information Services
	RITA FITZGERALD	Cole Information Services
	4 DANIEL BERGLUND	Cole Information Services
1983	APARTMENTS	Cole Information Services
	Kibbe K	New York Telephone
	Greenberg Wendy	New York Telephone
	Brafnfman A	New York Telephone
1931	Pozar Leopold	Manhattan and Bronx Directory Publishing Company Residential Directory
	Kittman Theresa	Manhattan and Bronx Directory Publishing Company Residential Directory

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1931	Coughlin Chas P fireman	Manhattan and Bronx Directory Publishing Company Residential Directory
	Coughlin Cath	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	New Colonial Mills	New York Telephone
	Ganzman Bros tea coffee	New York Telephone

Hudson Street

219 Hudson Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Crowley Mary wid Wm sal	R. L. Polk & Co.

WATTS

100 WATTS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Sinni Gregoro fruit	R. L. Polk & Co.
	Senni Gregory fruits	R. L. Polk & Co.
	Senning Fred W sec treas Harriss Magill & Co Inc h W Orange NJ	R. L. Polk & Co.
	Senning Ralph W insp U S Customs h Roselle pk NJ	R. L. Polk & Co.
	Tobin Nicholas	R. L. Polk & Co.

102 WATTS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Gerrity Jno lab	R. L. Polk & Co.

104 WATTS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Menditto Clementine wid Nicholas	R. L. Polk & Co.
	Grossi Jno paper stock	R. L. Polk & Co.

106 WATTS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Tusi Anthony driver	R. L. Polk & Co.
	Montantine Anthony fruits	R. L. Polk & Co.

108 WATTS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Frank Francis clk	R. L. Polk & Co.

FINDINGS

111 WATTS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1938	LITHOCRAFT CO	New York Telephone
1927	GLEASON KATHLEEN MISS R	New York Telephone
1923	Chauffeurs Home The Harris Stelzer restr	R. L. Polk & Co.
1920	Stoger Bros Jno & Chas restr	R. L. Polk & Co.
	Stoger Chas Stoger Bros	R. L. Polk & Co.
	Stoger Jno Stoger Bros	R. L. Polk & Co.

113 WATTS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1927	SCHUYLER PHILIP CARPENTER	New York Telephone
1920	Caffrey Thos stevedore	R. L. Polk & Co.
	Caffrey Jno driver	R. L. Polk & Co.
	Caffrey Harry J br mgr Mhtn Elec Supply Co h Stamford Conn	R. L. Polk & Co.
	Caffrey Frank J rigger	R. L. Polk & Co.

WATTS ST

111 WATTS ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1927	Gleason Kathleen Miss r	New York Telephone

113 WATTS ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1927	Schuyler Philip carpenter	New York Telephone

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

489 Canal Street

Address Not Identified in Research Source

2007, 2006, 2000, 1998, 1996, 1993, 1973, 1968, 1963, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 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

100 WATTS

Address Not Identified in Research Source

2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923

102 WATTS

2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923

104 WATTS

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106 WATTS

2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923

108 WATTS

2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923

111 WATTS

2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1934, 1931

111 WATTS ST

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113 WATTS

2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1923

113 WATTS ST

2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1923, 1920

219 Hudson Street

2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923

472 CANAL

2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1920

474 CANAL

2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1923

474 CANAL ST

2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1923, 1920

476 CANAL

2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1920

477 CANAL

2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923

478 CANAL

2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923

FINDINGS

Address Researched

Address Not Identified in Research Source

479 CANAL	2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927
483 CANAL	2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1920
485 CANAL	2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923
491 CANAL	2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934
491 CANAL ST	2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1923, 1920
493 CANAL	2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1923
493 CANAL ST	2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1923, 1920
495 CANAL	2012, 2007, 2006, 2000, 1998, 1996, 1993, 1983, 1931, 1923
495 CANAL ST	2012, 2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1923, 1920
495 CANAL ST	2007, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923, 1920
497 CANAL	2012, 2007, 2006, 2000, 1996, 1988, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923
497 CANAL ST	2012, 2007, 1998, 1996, 1993, 1988, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923, 1920
497 CANAL ST	2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923, 1920
499 CANAL	2012, 2007, 2006, 2000, 1996, 1978, 1973, 1947, 1931, 1927
499 CANAL ST	2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923, 1920
499 CANAL ST	2012, 2007, 1998, 1996, 1993, 1988, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923, 1920
501 CANAL	2012, 2007, 2006, 2000, 1998, 1996, 1993, 1978, 1973, 1968, 1963, 1956, 1950, 1947, 1942, 1938, 1923
501 CANAL ST	2012, 2007, 1998, 1996, 1993, 1988, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1923, 1920

CERTIFIED SANBORN MAP REPORT

Canal Street/Hudson Street

489 Canal Street

New York, NY 10013

Inquiry Number: 3470507.3

December 05, 2012

Certified Sanborn® Map Report

Certified Sanborn® Map Report

12/05/12

Site Name:

Canal Street/Hudson Street
489 Canal Street
New York, NY 10013

Client Name:

Soil Mechanics Environmental
3770 Merrick Road
Seaford, NY 11783



EDR Inquiry # 3470507.3

Contact: Daren Murphy

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Soil Mechanics Environmental were identified for the years listed below. 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 Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Canal Street/Hudson Street
Address: 489 Canal Street
City, State, Zip: New York, NY 10013
Cross Street:
P.O. # NA
Project: 12-703
Certification # 93E1-4020-885B



Sanborn® Library search results
Certification # 93E1-4020-885B

Maps Provided:

2005	1995	1987	1977	1913
2004	1994	1985	1976	1905
2003	1993	1983	1968	1894
2002	1992	1980	1950	
2001	1990	1979	1928	
1996	1988	1978	1922	

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, 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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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



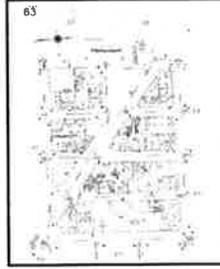
2005 Source Sheets



Volume 1N, Sheet 40



Volume 1N, Sheet 42

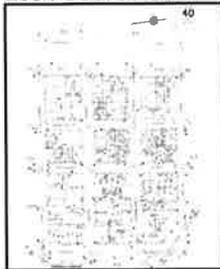


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Volume 1N, Sheet 65

2004 Source Sheets



Volume 1N, Sheet 40



Volume 1N, Sheet 42

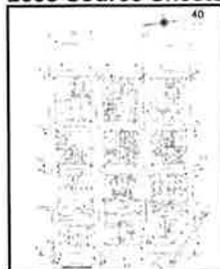


Volume 1N, Sheet 63



Volume 1N, Sheet 65

2003 Source Sheets



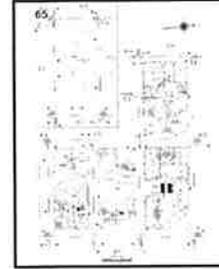
Volume 1N, Sheet 40



Volume 1N, Sheet 42



Volume 1N, Sheet 63

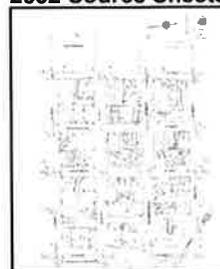


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Volume 1S, Sheet xxxx

2002 Source Sheets



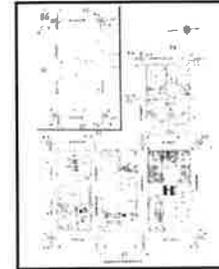
Volume 1N, Sheet 40



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2001 Source Sheets



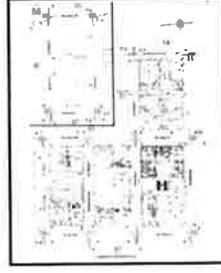
Volume 1N, Sheet 40



Volume 1N, Sheet 42



Volume 1N, Sheet 63



Volume 1N, Sheet 65

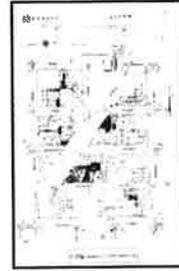
1996 Source Sheets



Volume 1N, Sheet 40



Volume 1N, Sheet 42



Volume 1N, Sheet 63

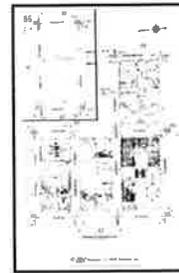


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1995 Source Sheets



Volume 1N, Sheet 63



Volume 1N, Sheet 65



Volume 1N, Sheet 40



Volume 1N, Sheet 42

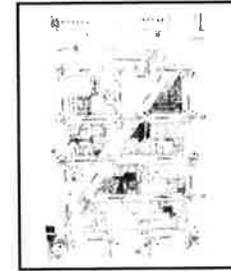
1994 Source Sheets



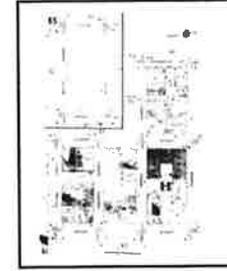
Volume 1N, Sheet 40



Volume 1N, Sheet 42



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1993 Source Sheets



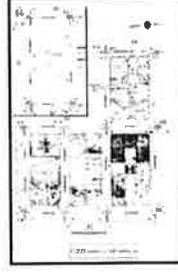
Volume 1N, Sheet 40



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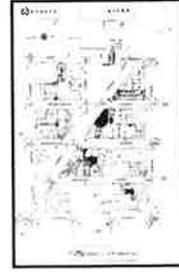
1992 Source Sheets



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1990 Source Sheets



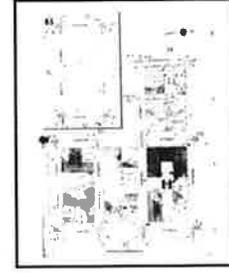
Volume 1N, Sheet 40



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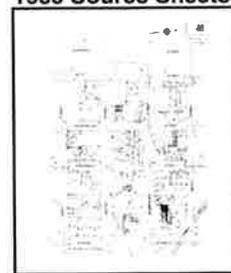


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1988 Source Sheets



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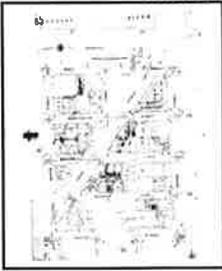


Volume 1N, Sheet 63

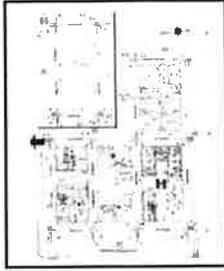


Volume 1N, Sheet 65

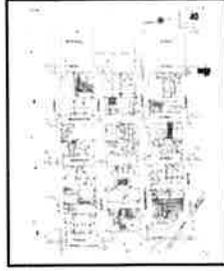
1987 Source Sheets



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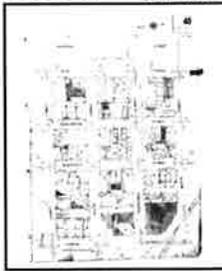


Volume 1N, Sheet 40



Volume 1N, Sheet 42

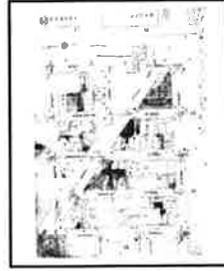
1985 Source Sheets



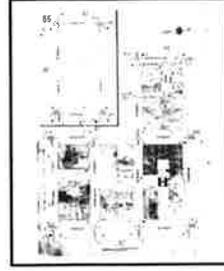
Volume 1N, Sheet 40



Volume 1N, Sheet 42

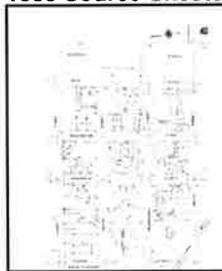


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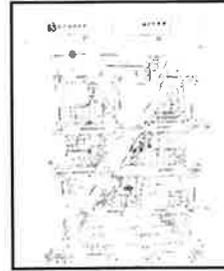
1983 Source Sheets



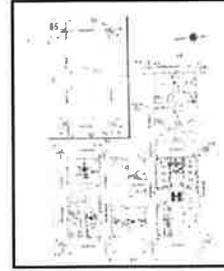
Volume 1N, Sheet 40



Volume 1N, Sheet 42



Volume 1N, Sheet 63



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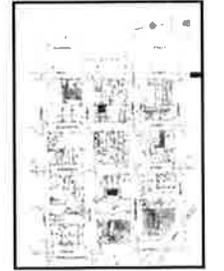
1980 Source Sheets



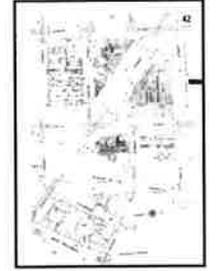
Volume 3, Sheet xxx



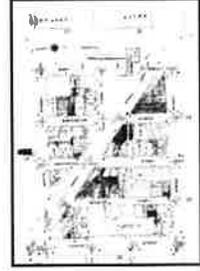
Volume 1S, Sheet xxx



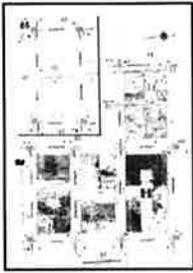
Volume 1N, Sheet 40



Volume 1N, Sheet 42



Volume 1N, Sheet 63

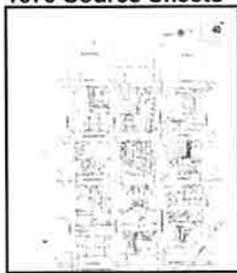


Volume 1N, Sheet 65



Volume 2, Sheet xxxx

1979 Source Sheets



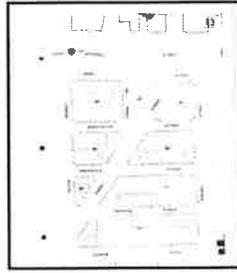
Volume 1N, Sheet 40



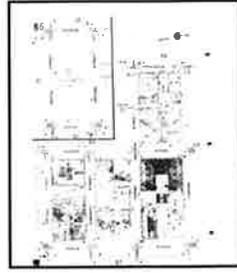
Volume 1N, Sheet 42



Volume 1N, Sheet 63

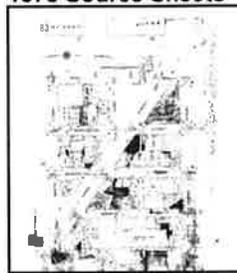


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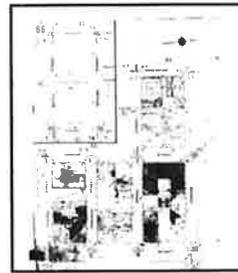


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1978 Source Sheets



Volume 1N, Sheet 63



Volume 1N, Sheet 65



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Volume 1N, Sheet 42

1977 Source Sheets



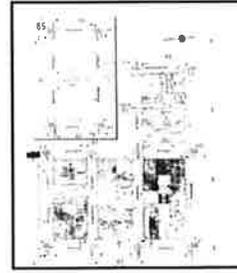
Volume 1N, Sheet 40



Volume 1N, Sheet 42

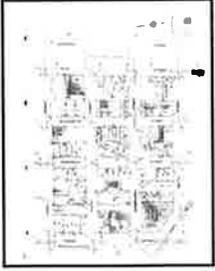


Volume 1N, Sheet 63



Volume 1N, Sheet 65

1976 Source Sheets



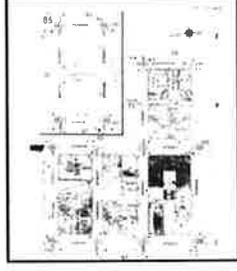
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Volume 1N, Sheet 42



Volume 1N, Sheet 63



Volume 1N, Sheet 65

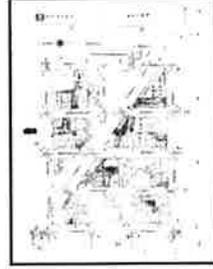
1968 Source Sheets



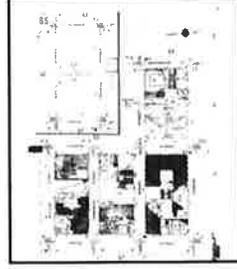
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Volume 1N, Sheet 42



Volume 1N, Sheet 63



Volume 1N, Sheet 65

1950 Source Sheets



Volume 3, Sheet xxx



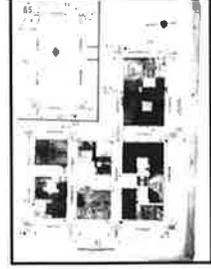
Volume 1N, Sheet 40



Volume 1N, Sheet 42



Volume 1N, Sheet 63



Volume 1N, Sheet 65



Volume 1S, Sheet xxx



Volume 2, Sheet xxx

1928 Source Sheets

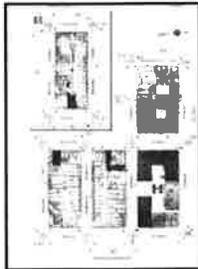


Volume Pier Maps, Sheet 2

1922 Source Sheets



Volume 1N, Sheet 63



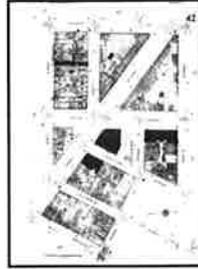
Volume 1N, Sheet 65



Volume 1N, Sheet xxxx



Volume 1N, Sheet 40



Volume 1N, Sheet 42

1913 Source Sheets



Volume Atlas Maps, Sheet 03

1905 Source Sheets



Volume 1N, Sheet 40



Volume 1N, Sheet 42



Volume 1N, Sheet 54



Volume 1N, Sheet 65

1894 Source Sheets

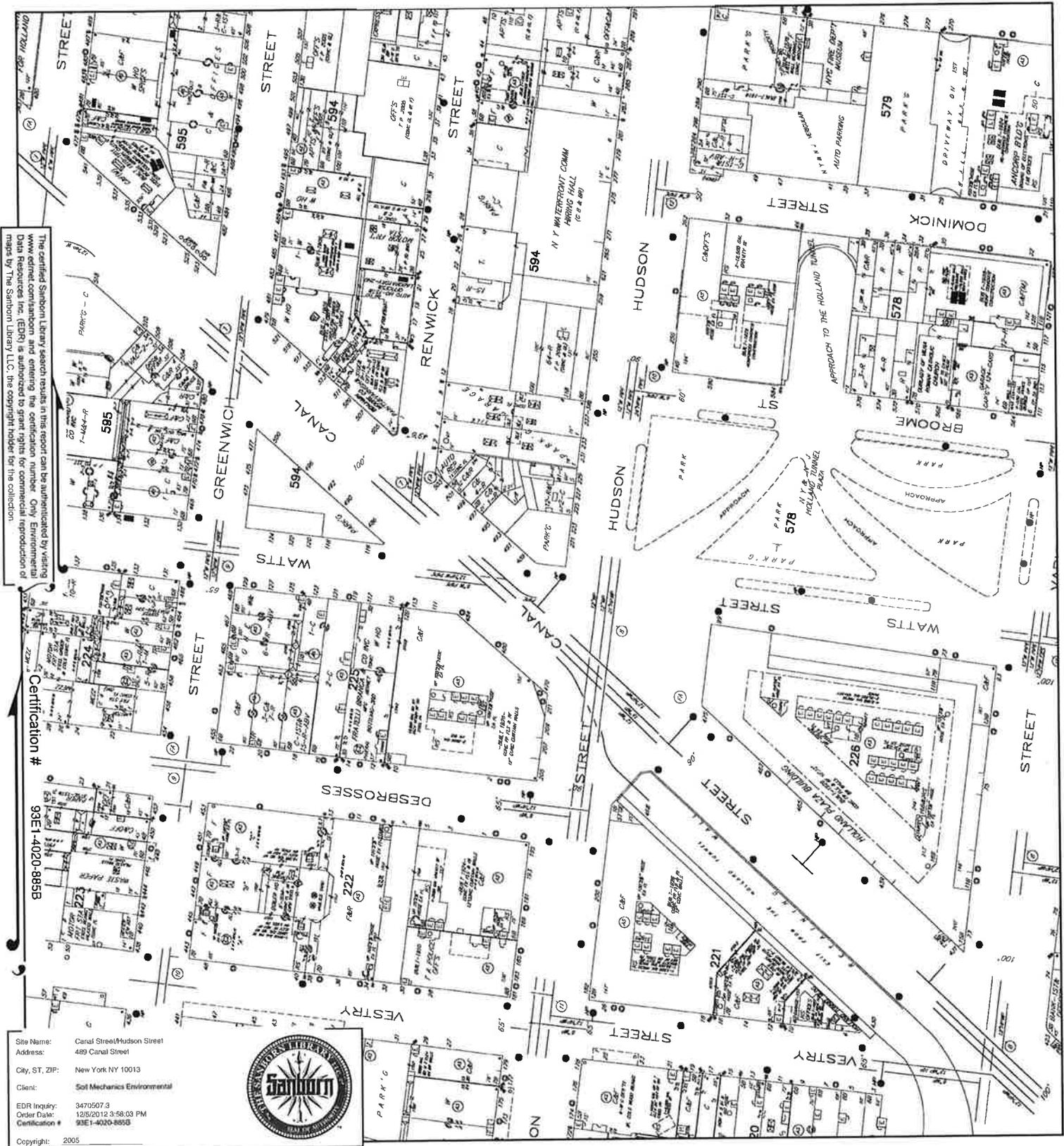


Volume 1N, Sheet 18



Volume 1N, Sheet 18

2005 Certified Sanborn Map



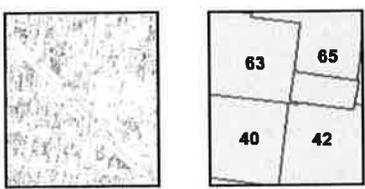
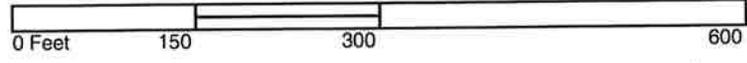
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2004 Certified Sanborn Map



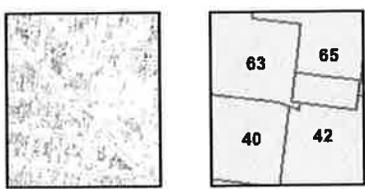
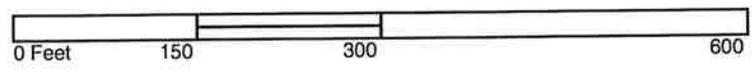
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 City, ST, ZIP: New York NY 10013
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 Certification # 93E1-4020-895B
 Copyright: 2004



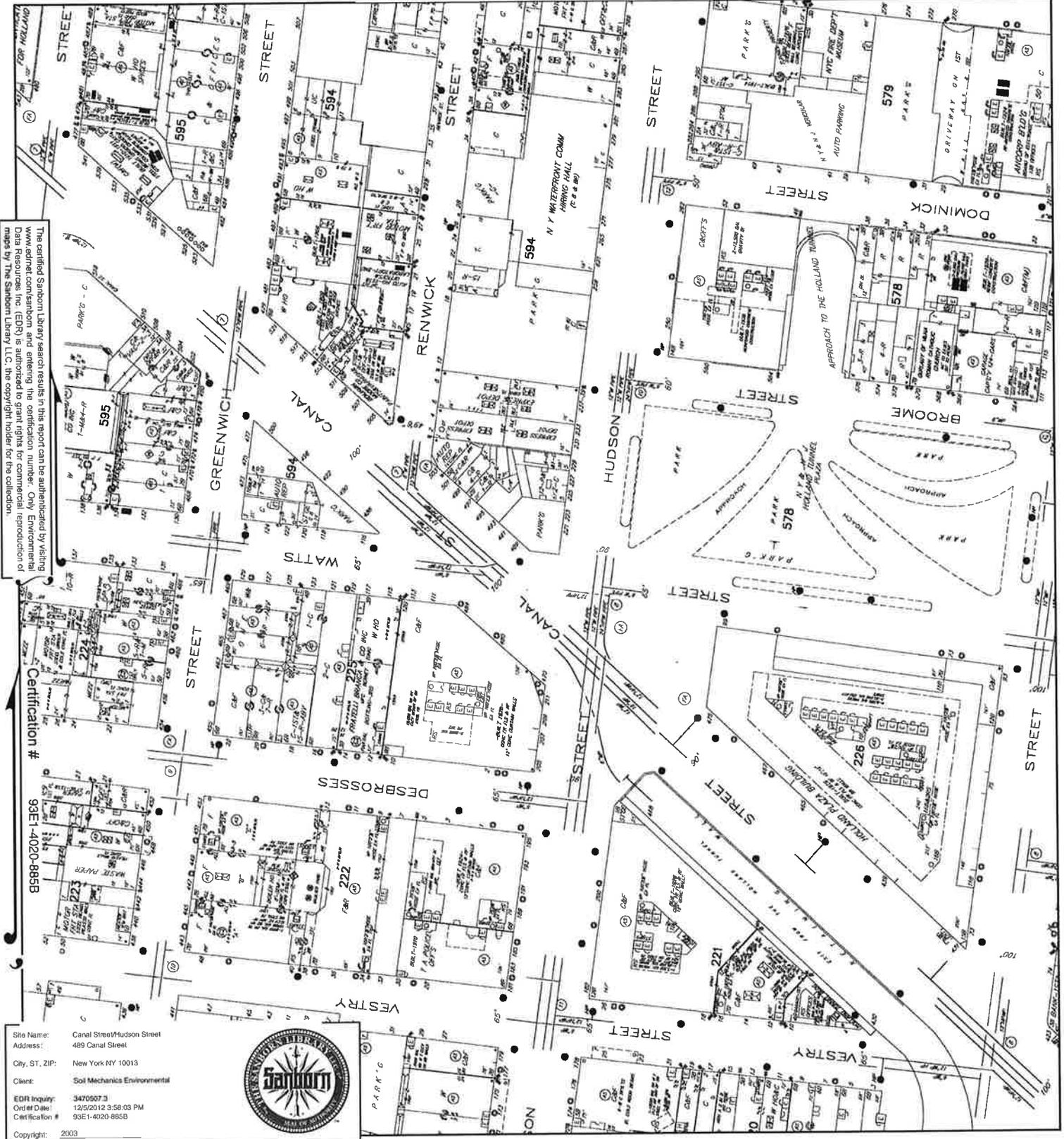
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- Volume 1N, Sheet 42
- Volume 1N, Sheet 63
- Volume 1N, Sheet 65



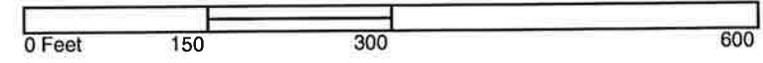
2003 Certified Sanborn Map



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 Address: 489 Canal Street
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 Copyright: 2003

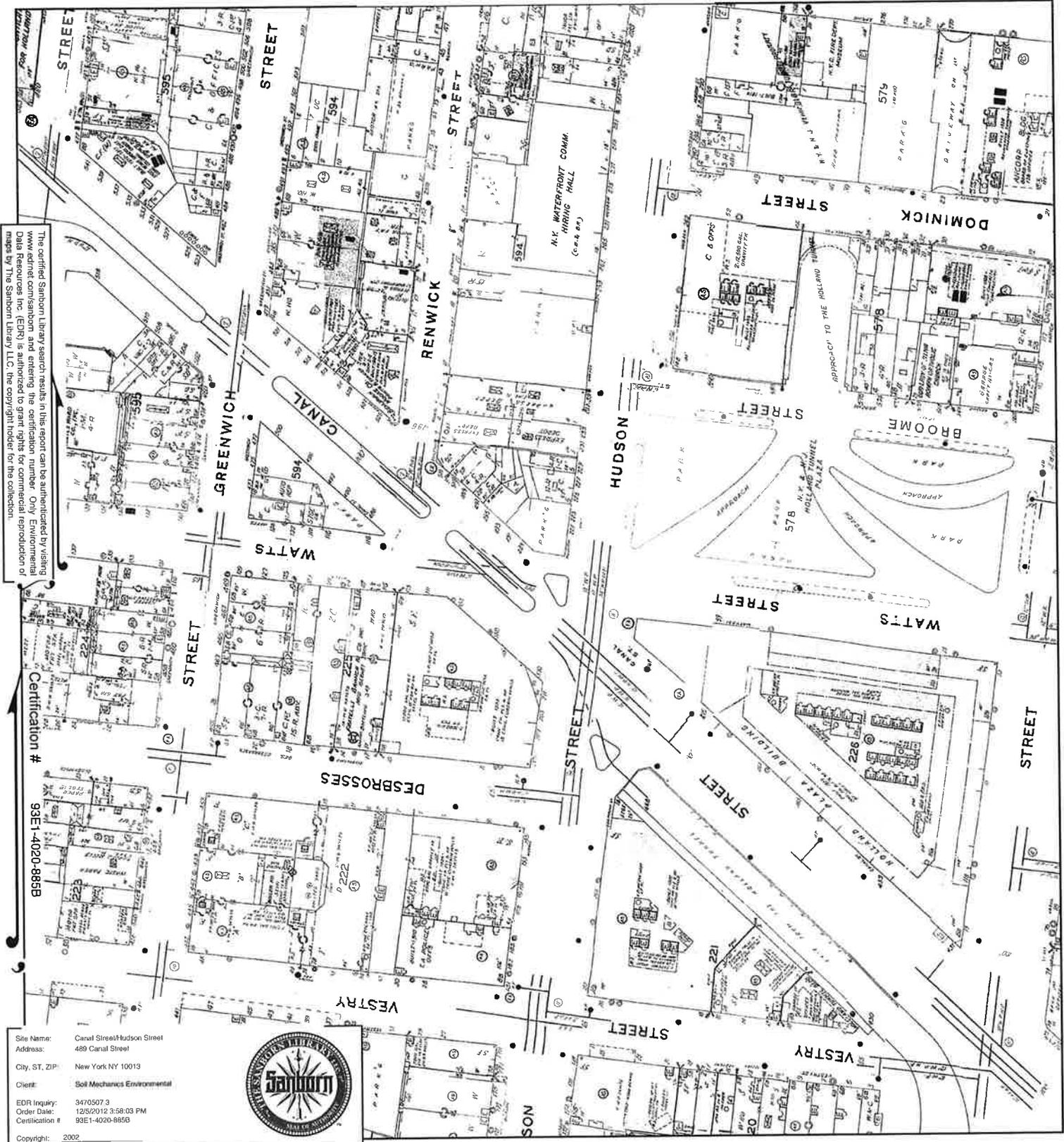


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- Volume 1N, Sheet 63
- Volume 1N, Sheet 65
- Volume 1S, Sheet xxxx



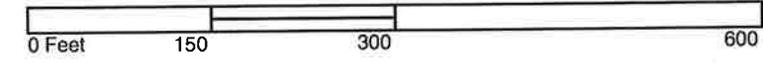
2002 Certified Sanborn Map



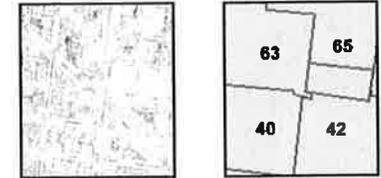
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 Certification #: 93E1-4020-885B
 Copyright: 2002

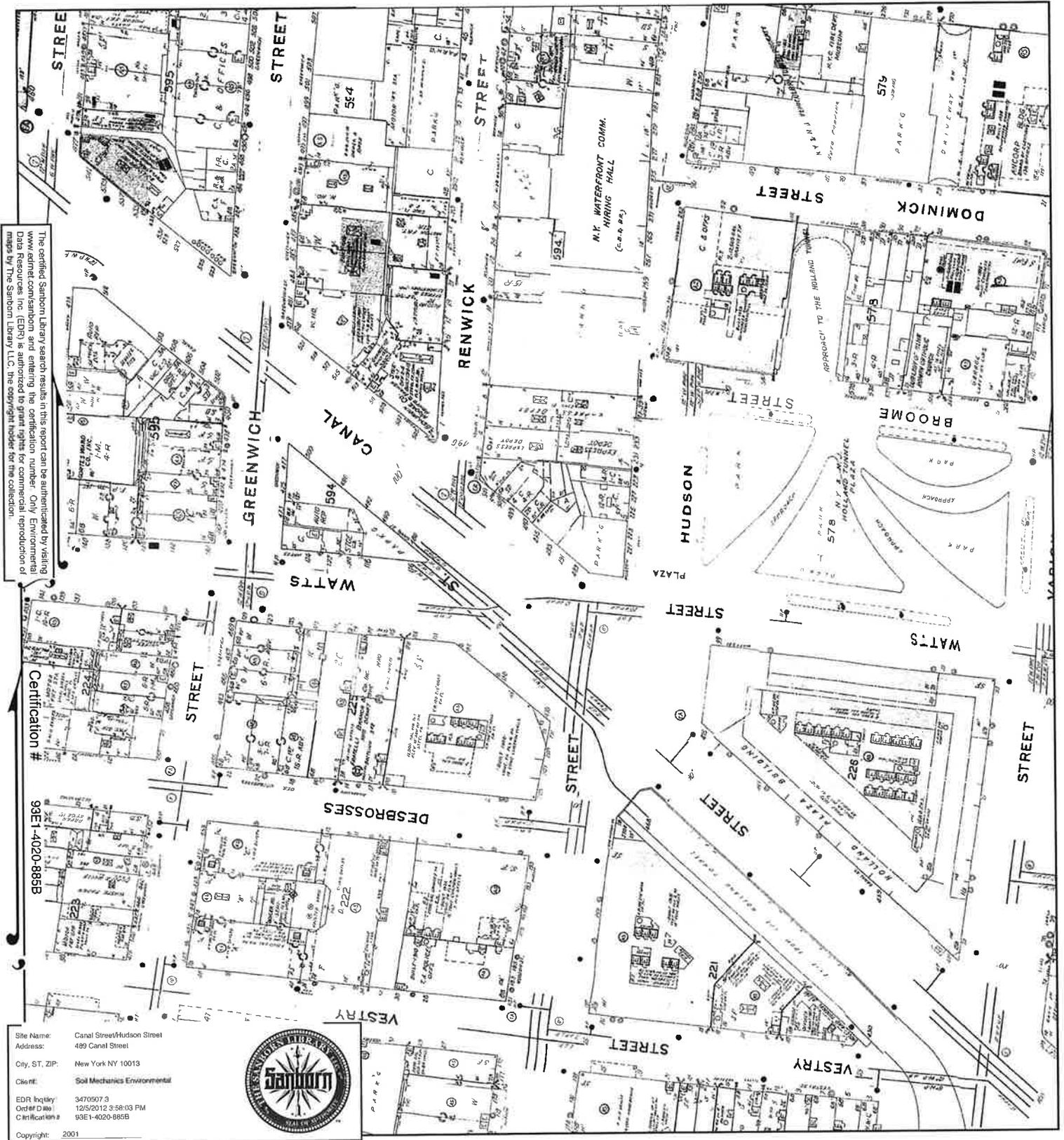


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2001 Certified Sanborn Map



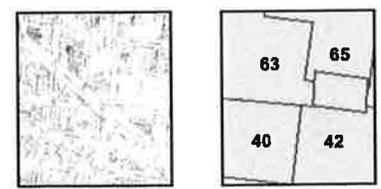
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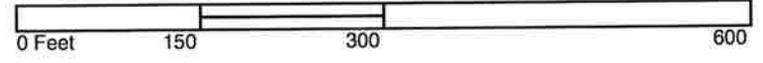
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 Copyright: 2001



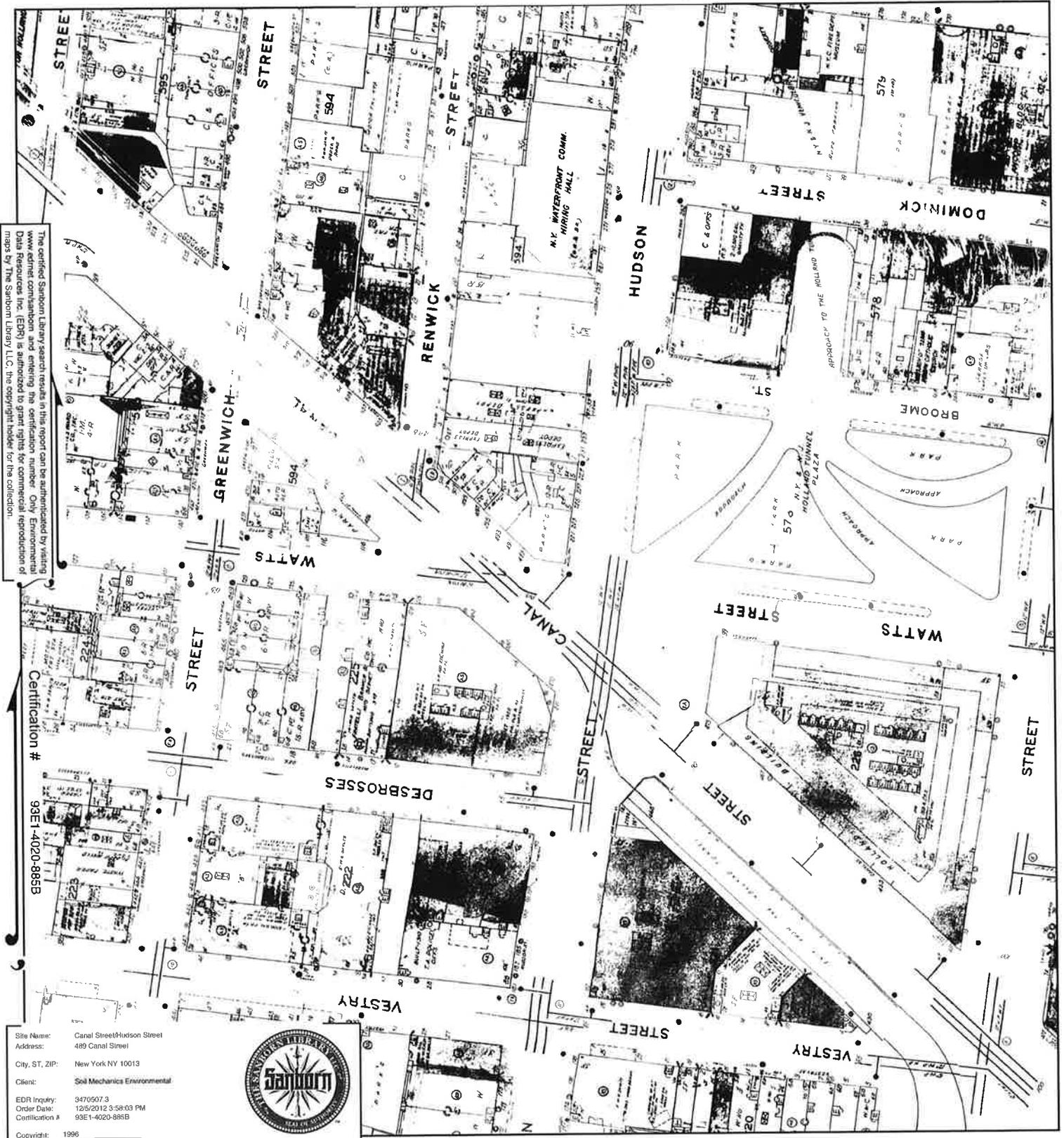
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- Volume 1N, Sheet 63
- Volume 1N, Sheet 65



1996 Certified Sanborn Map



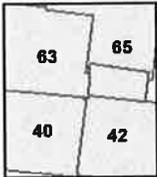
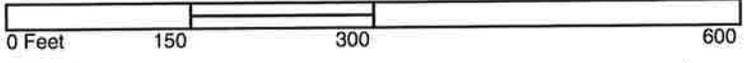
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 EDR Inquiry: 3470507-3
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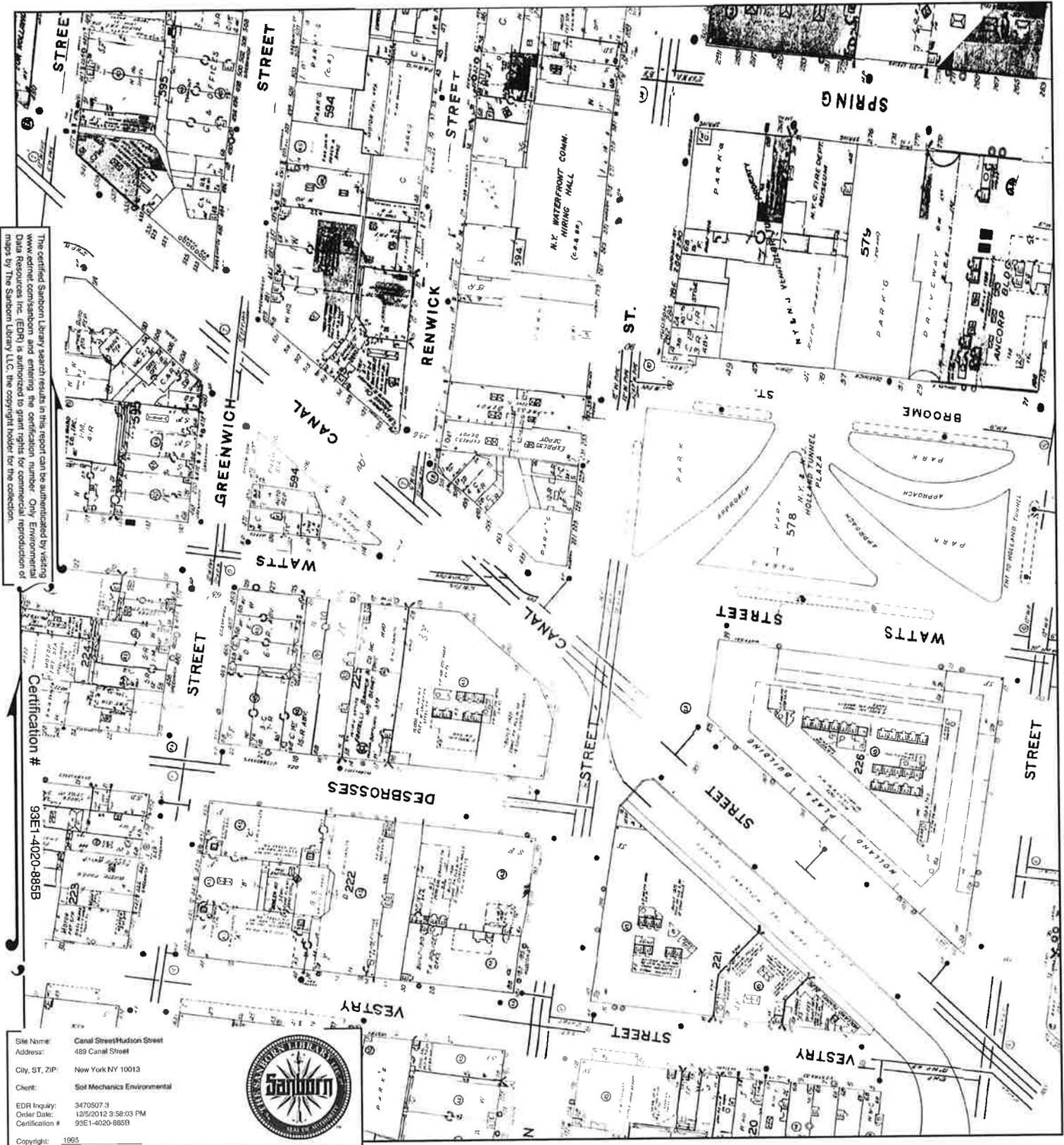
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- Volume 1N, Sheet 63
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1995 Certified Sanborn Map



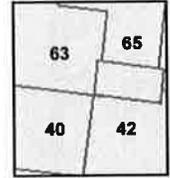
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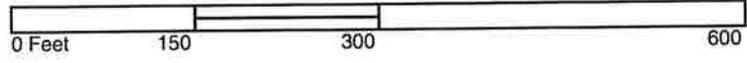
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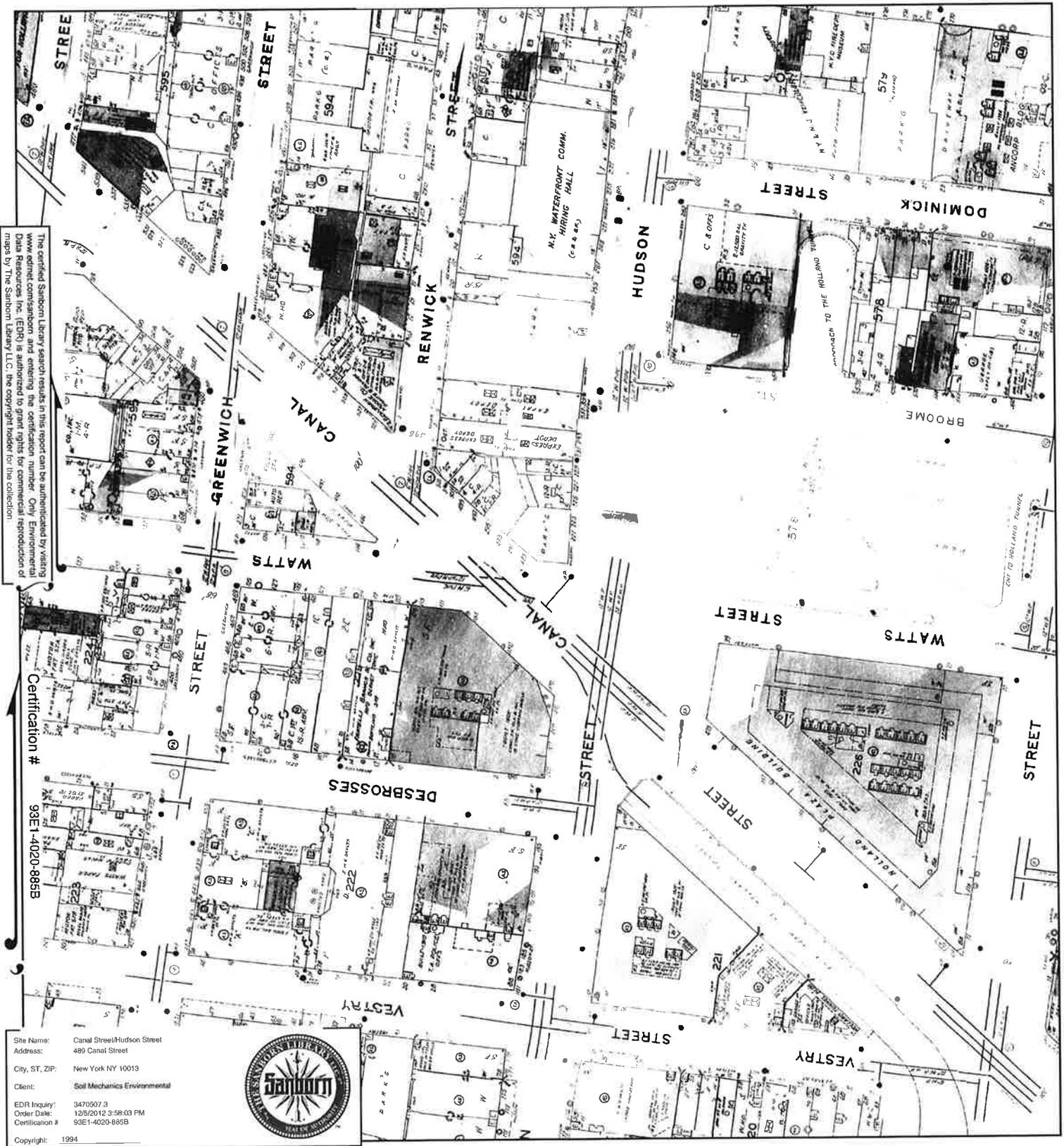
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- Volume 1N, Sheet 40
- Volume 1N, Sheet 42



1994 Certified Sanborn Map



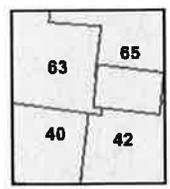
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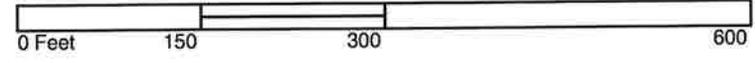
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 Copyright: 1994



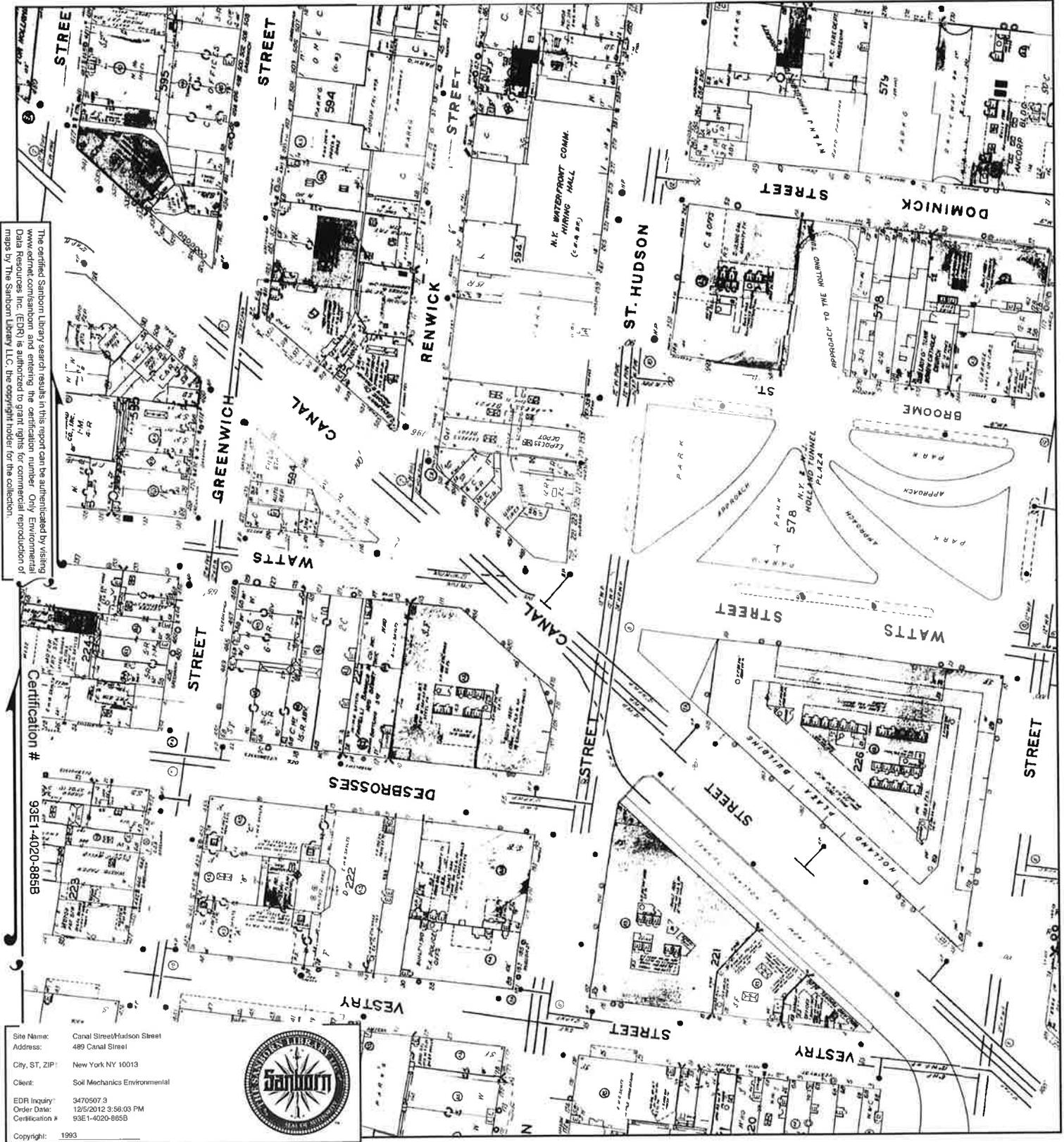
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1993 Certified Sanborn Map



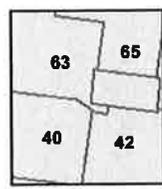
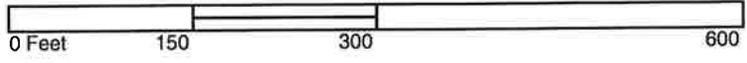
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 Certification #: 93E1-4020-885B
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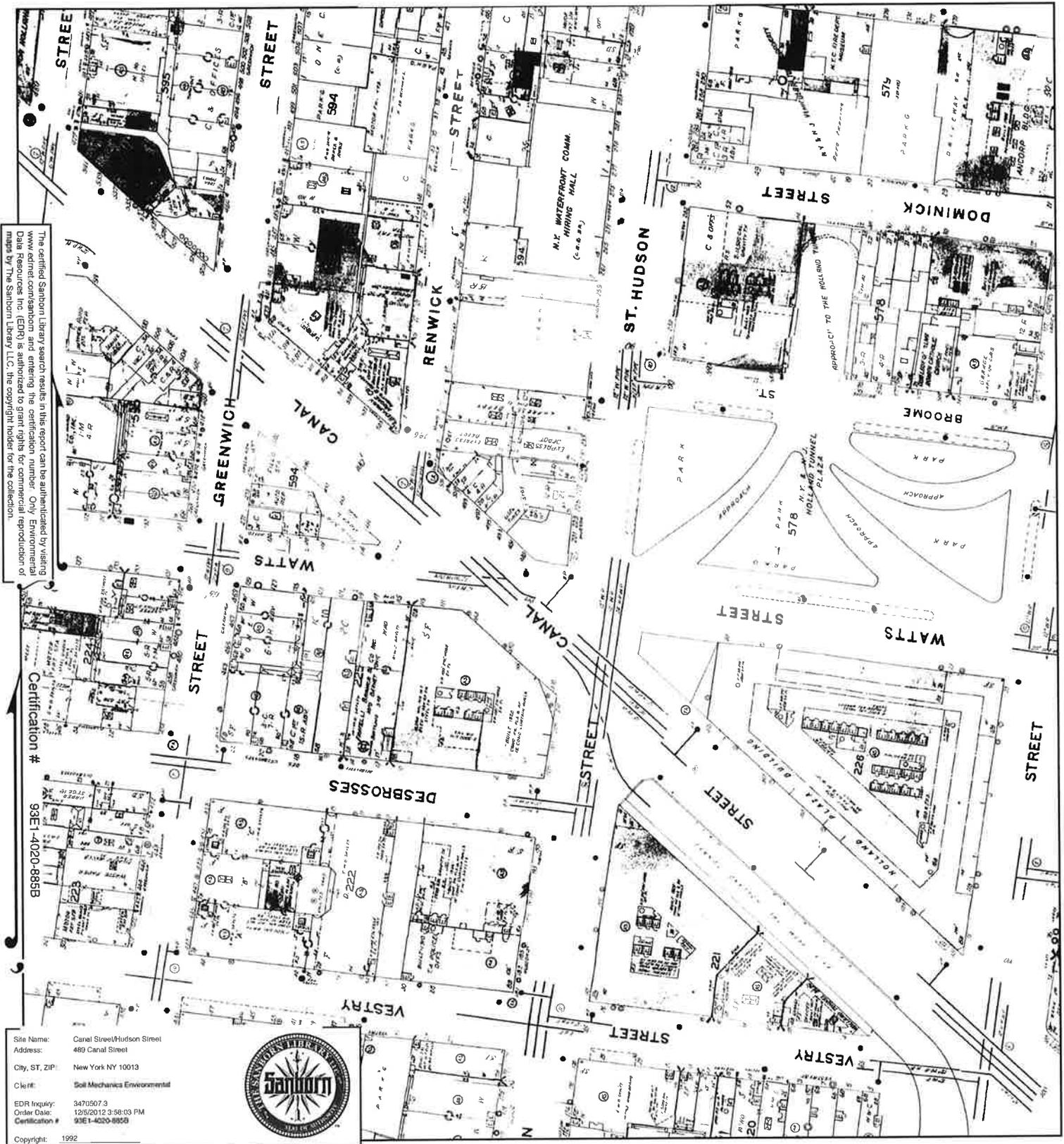
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1992 Certified Sanborn Map



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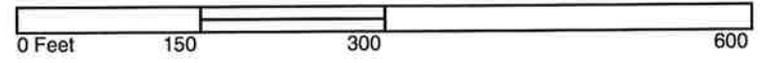
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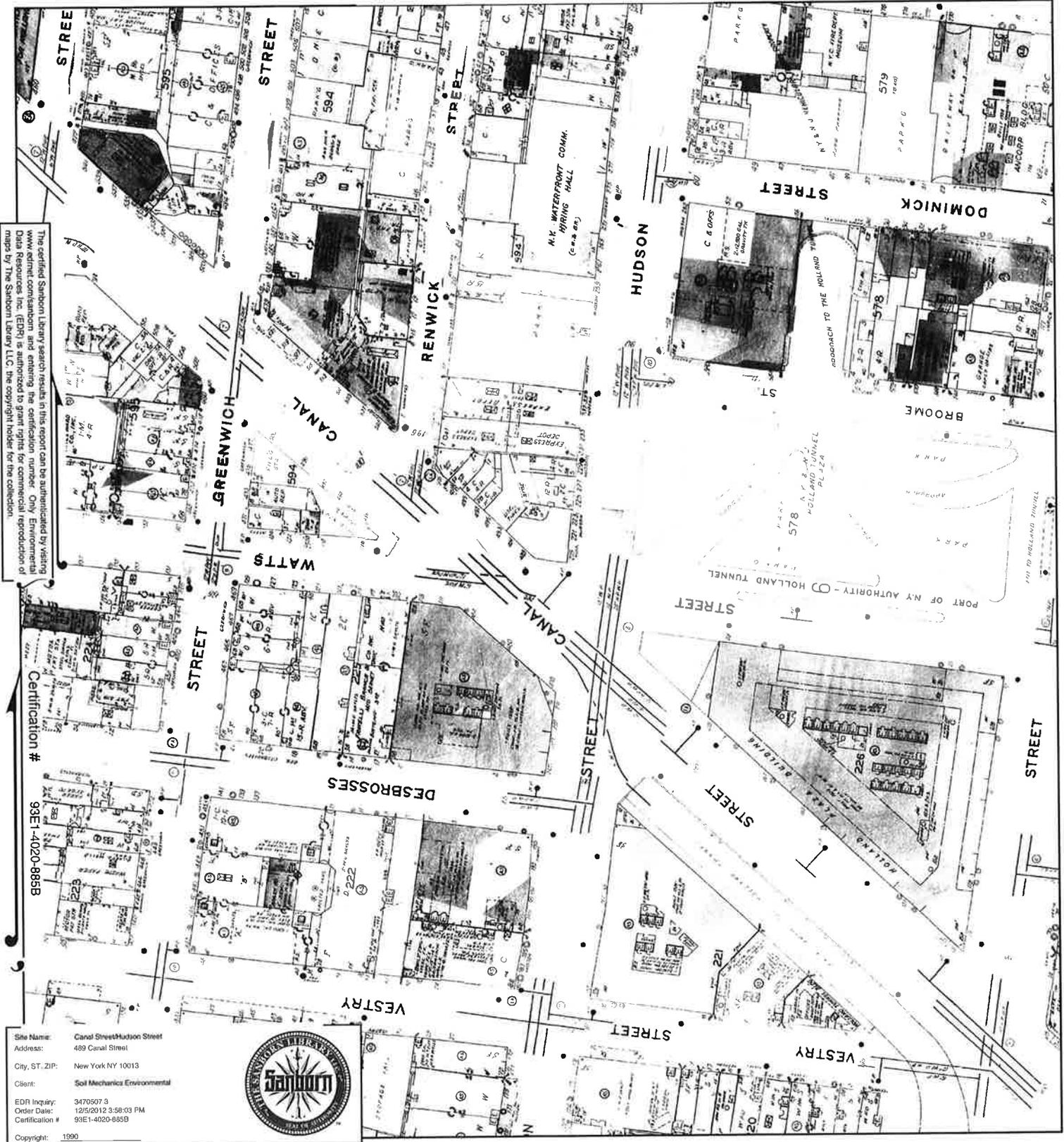
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1990 Certified Sanborn Map



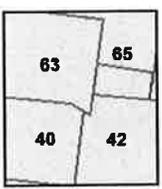
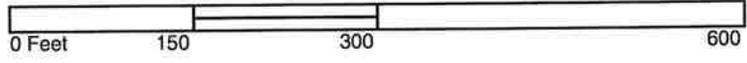
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 EDR Inquiry: 3470507 3
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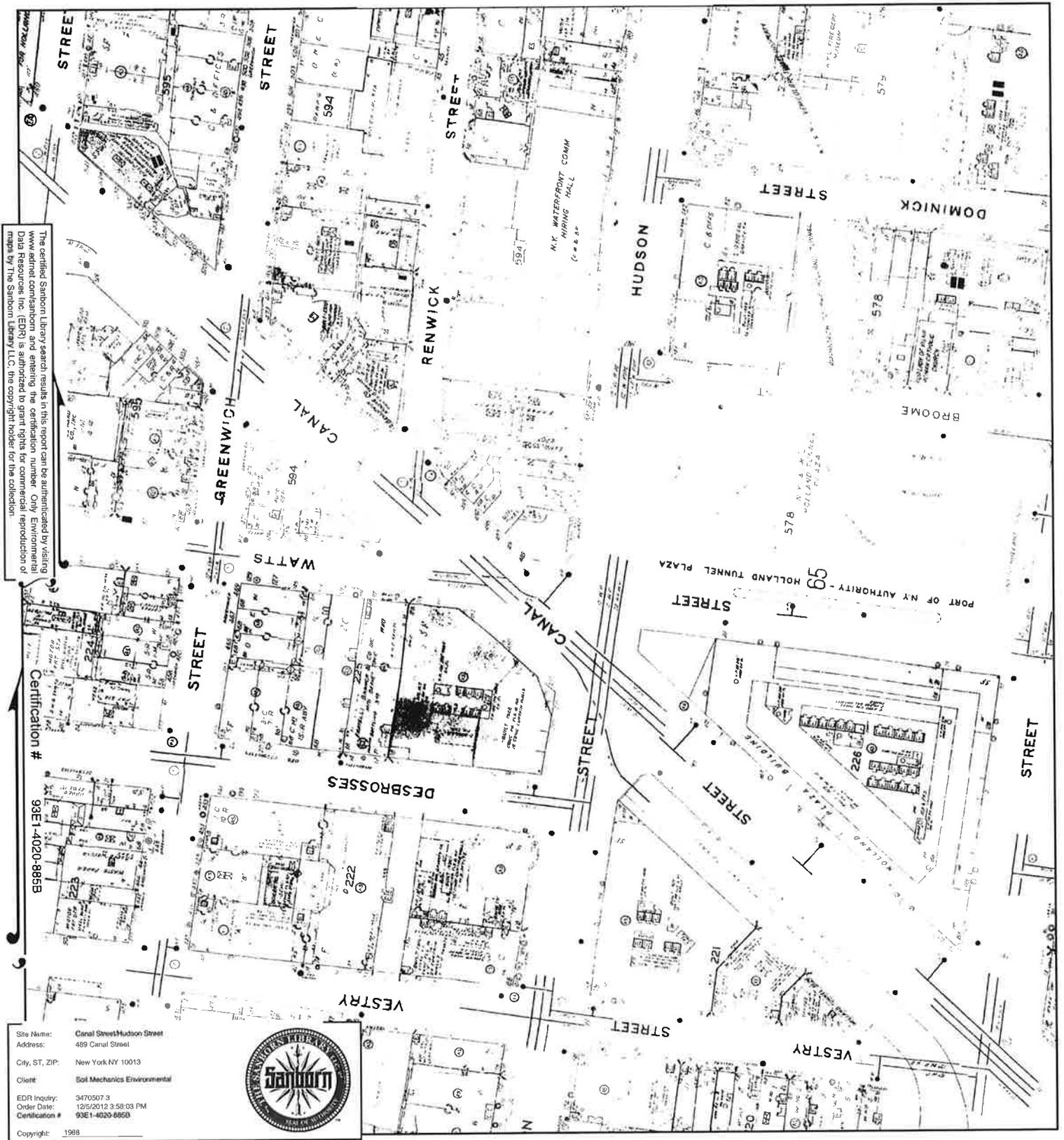
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1988 Certified Sanborn Map



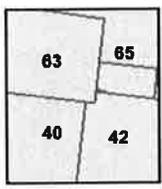
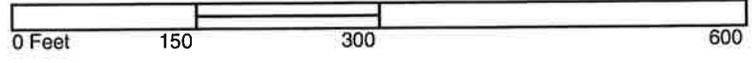
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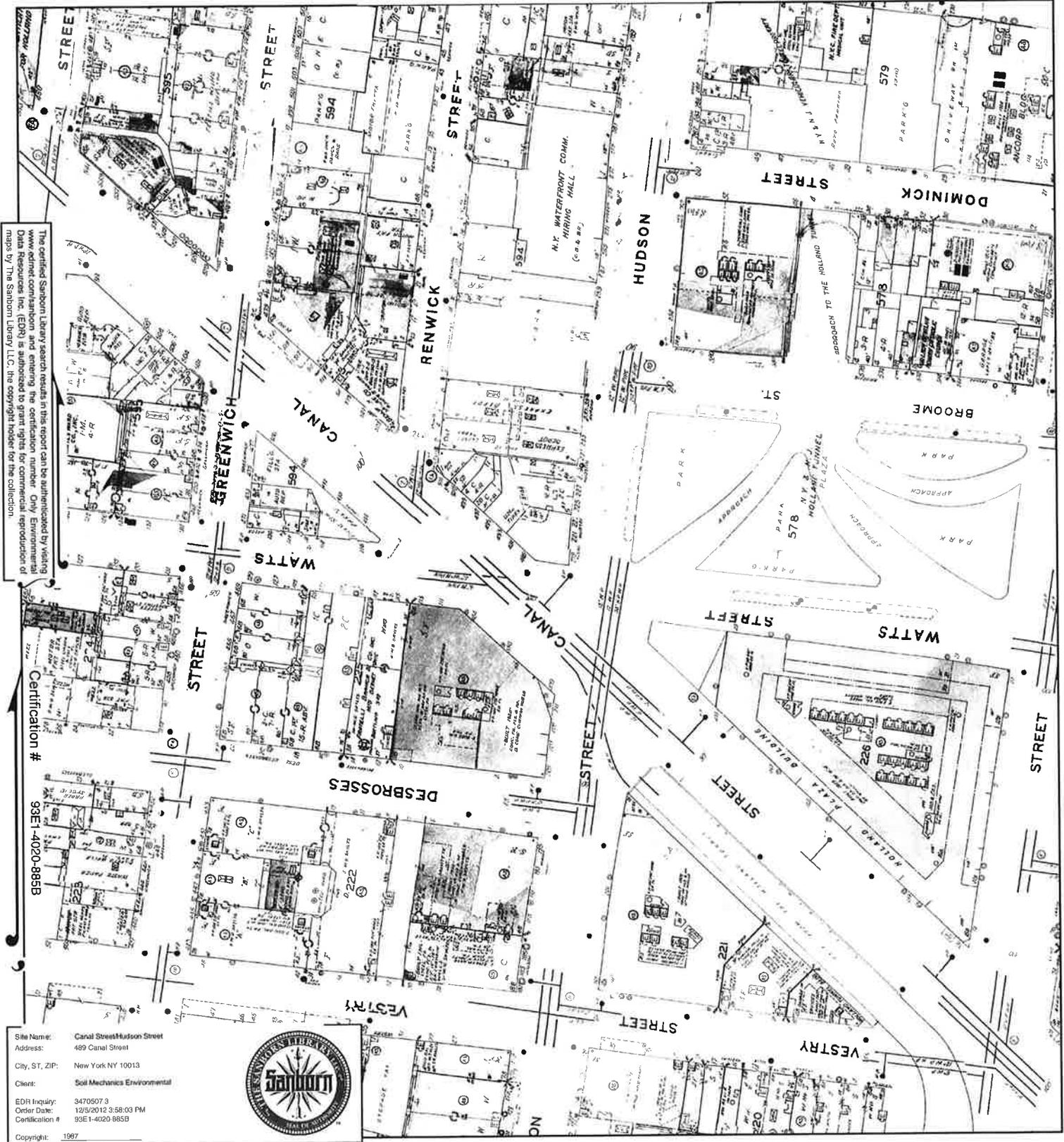
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1987 Certified Sanborn Map



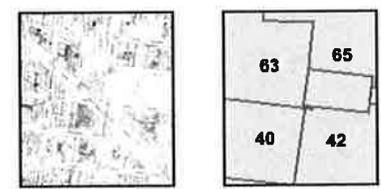
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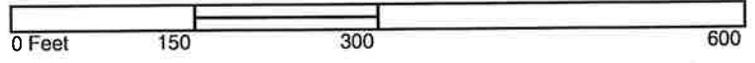
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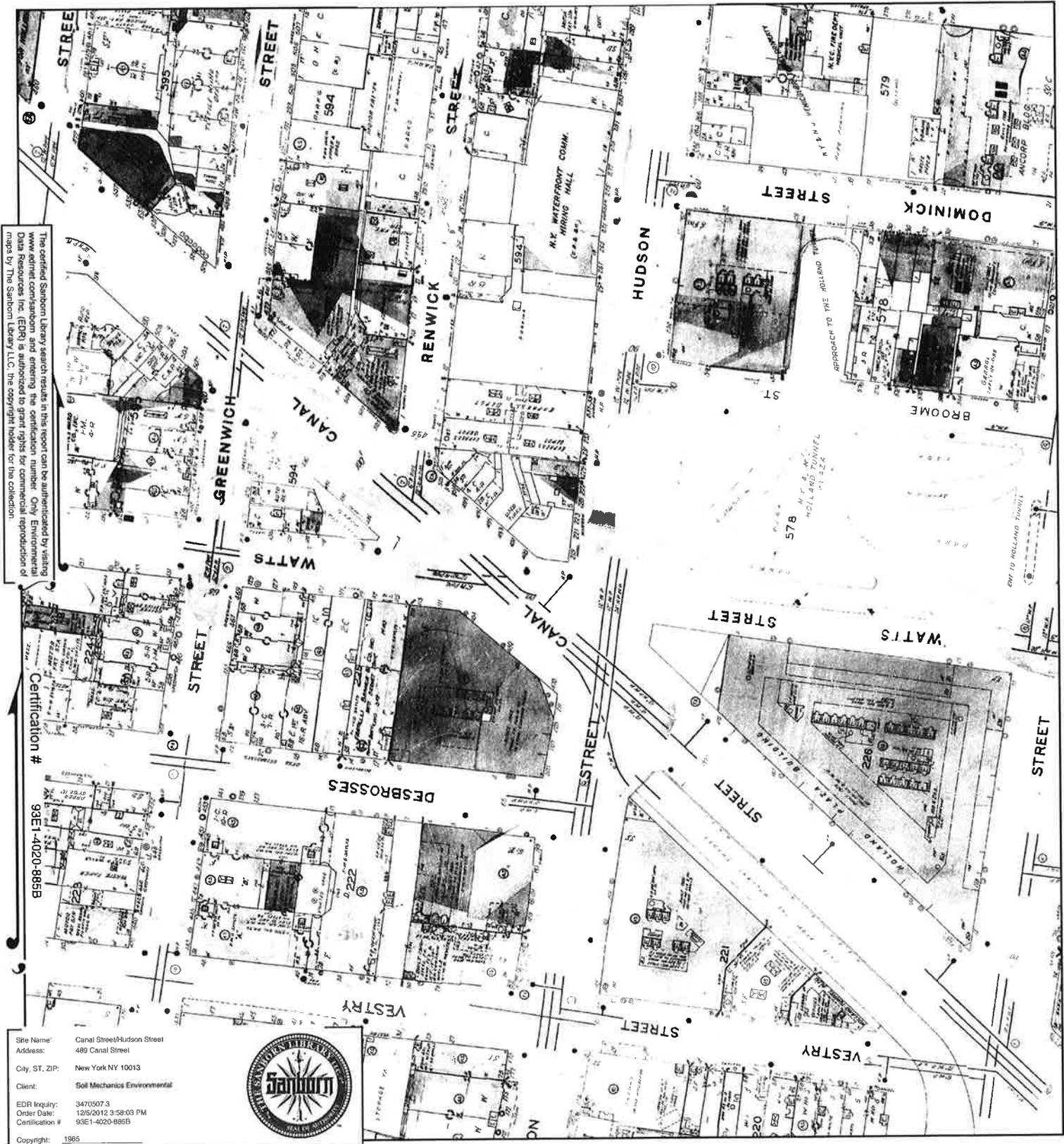
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- Volume 1N, Sheet 40
- Volume 1N, Sheet 42



1985 Certified Sanborn Map



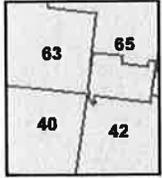
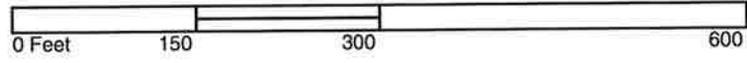
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 City, ST, ZIP: New York NY 10013
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 Copyright: 1985



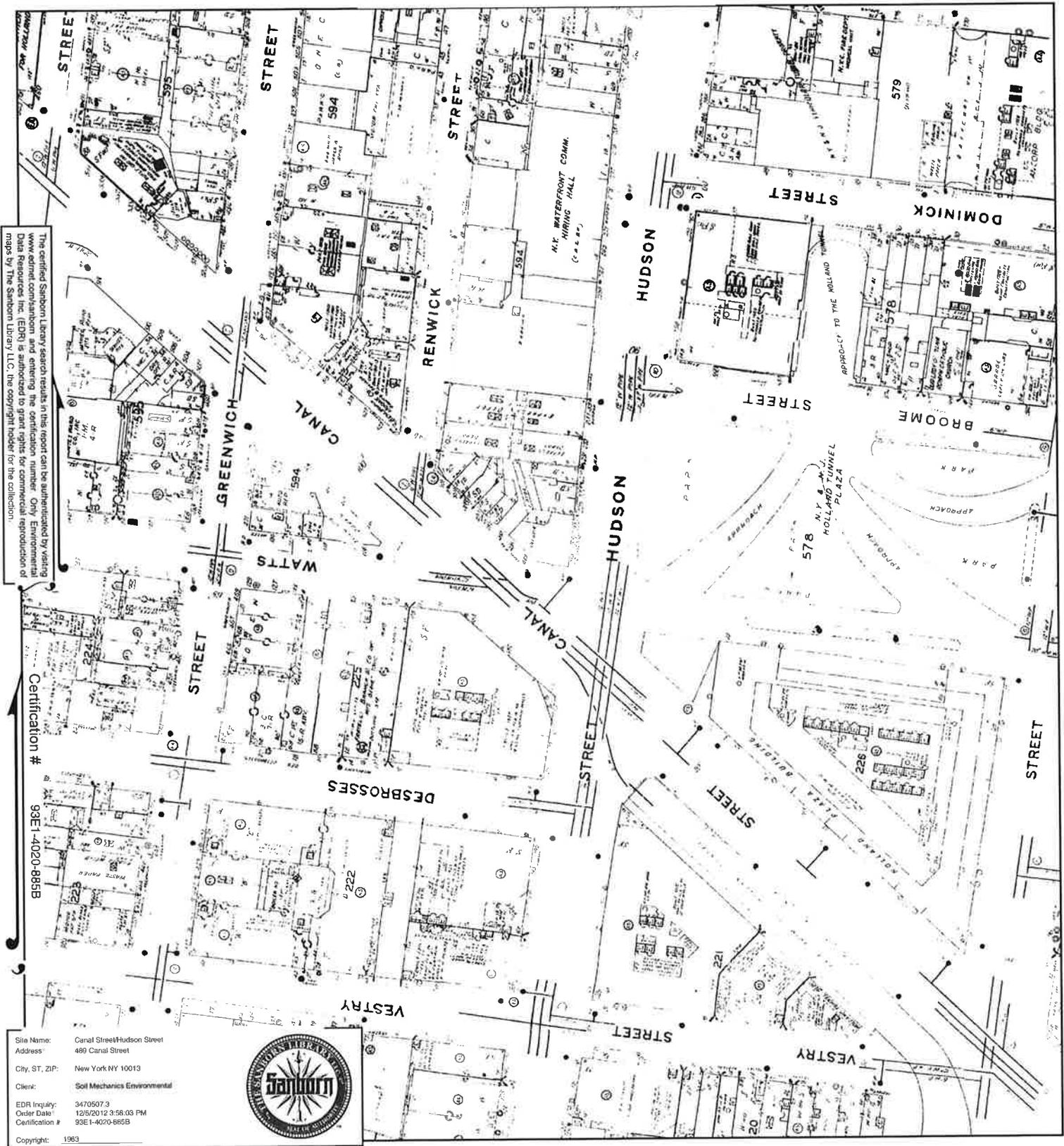
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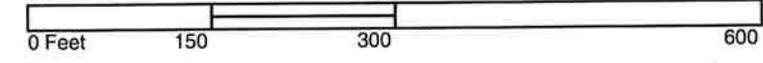
1983 Certified Sanborn Map



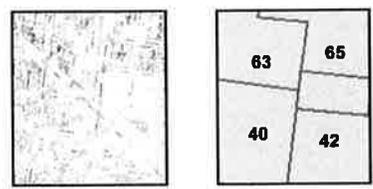
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Site Name: Canal Street/Hudson Street
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 City, ST, ZIP: New York NY 10013
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 Copyright: 1983

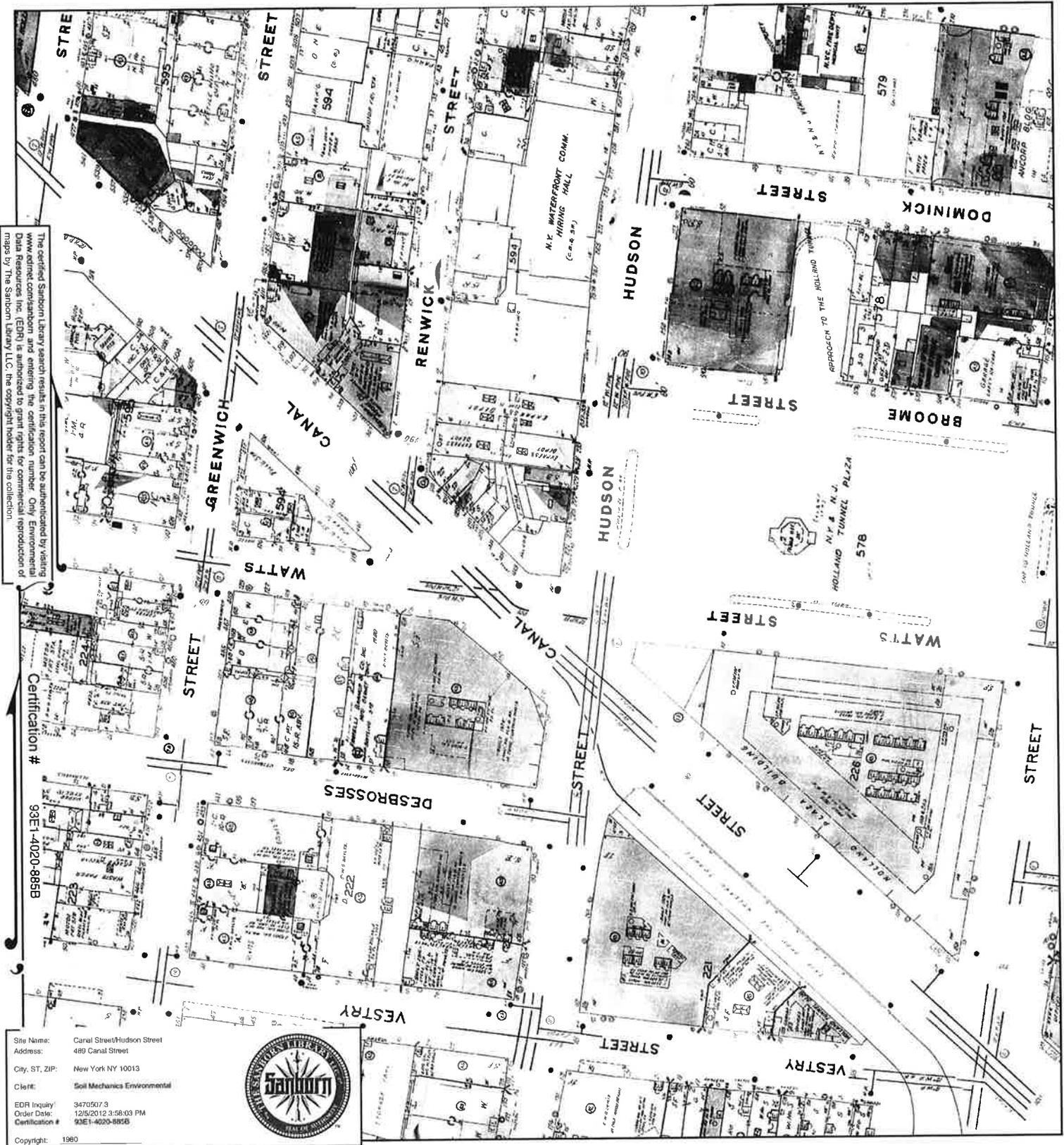


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- Volume 1N, Sheet 40
- Volume 1N, Sheet 42
- Volume 1N, Sheet 63
- Volume 1N, Sheet 65

1980 Certified Sanborn Map



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Certification #
93E1-4020-885B

Site Name: Canal Street/Hudson Street
 Address: 489 Canal Street
 City, ST, ZIP: New York NY 10013
 Client: Soil Mechanics Environmental
 EDR Inquiry: 34705073
 Order Date: 12/6/2012 3:58:03 PM
 Certification #: 93E1-4020-885B
 Copyright: 1980

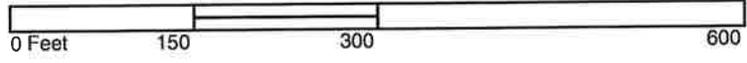


This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.

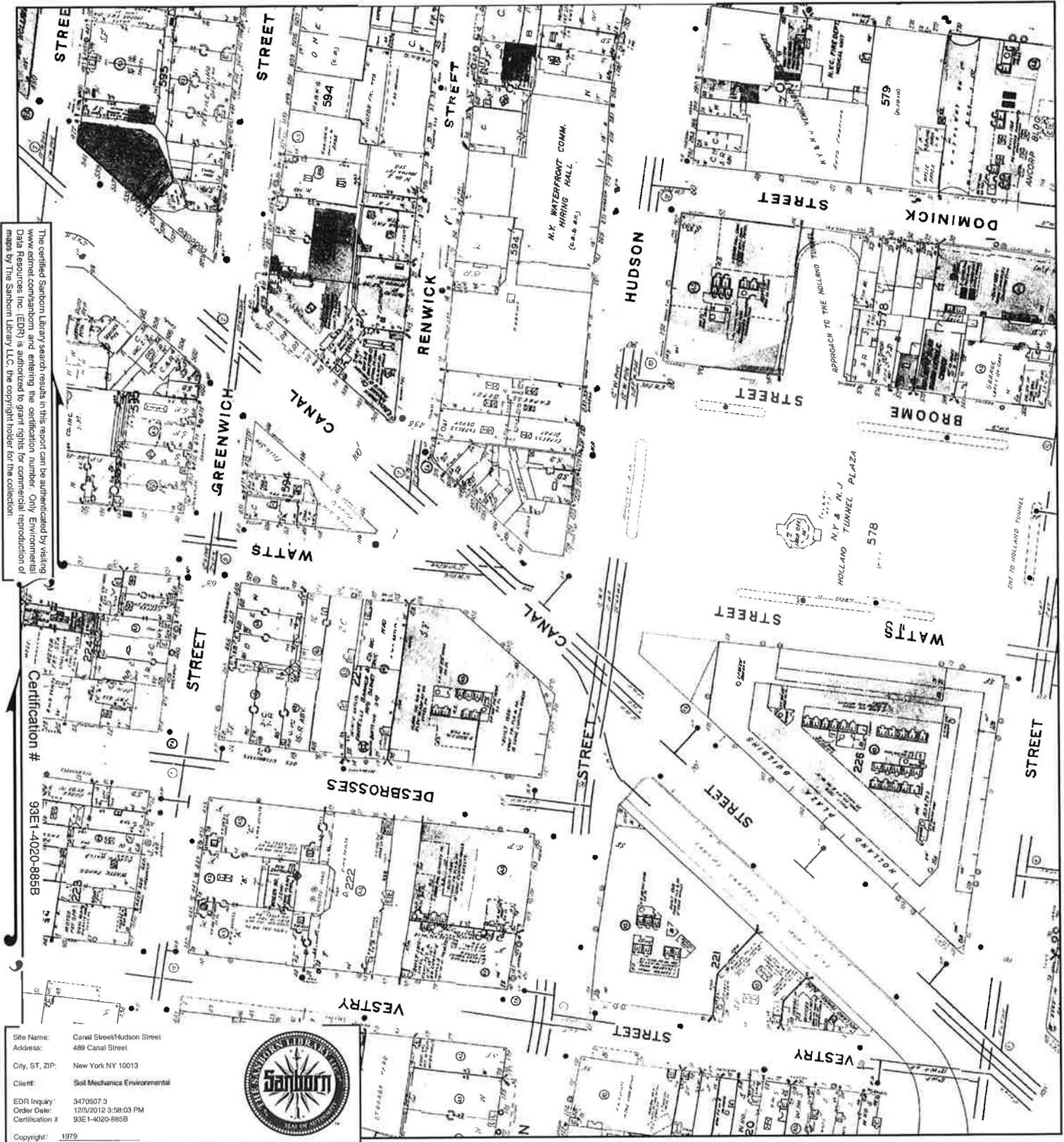


63	65
XXXX	
40	42

- Volume 3, Sheet xxxx
- Volume 1S, Sheet xxxx
- Volume 1N, Sheet 40
- Volume 1N, Sheet 42
- Volume 1N, Sheet 63
- Volume 1N, Sheet 65
- Volume 2, Sheet xxxx



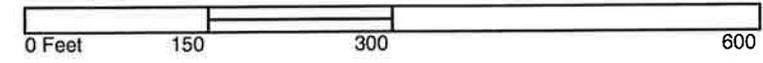
1979 Certified Sanborn Map



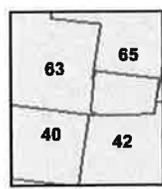
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Certification #
93E1-4020-885B

Site Name: Canal Street/Hudson Street
Address: 489 Canal Street
City, ST, ZIP: New York NY 10013
Client: Soil Mechanics Environmental
EDR Inquiry: 3470507-3
Order Date: 12/5/2012 3:58:03 PM
Certification #: 93E1-4020-885B
Copyright: 1979

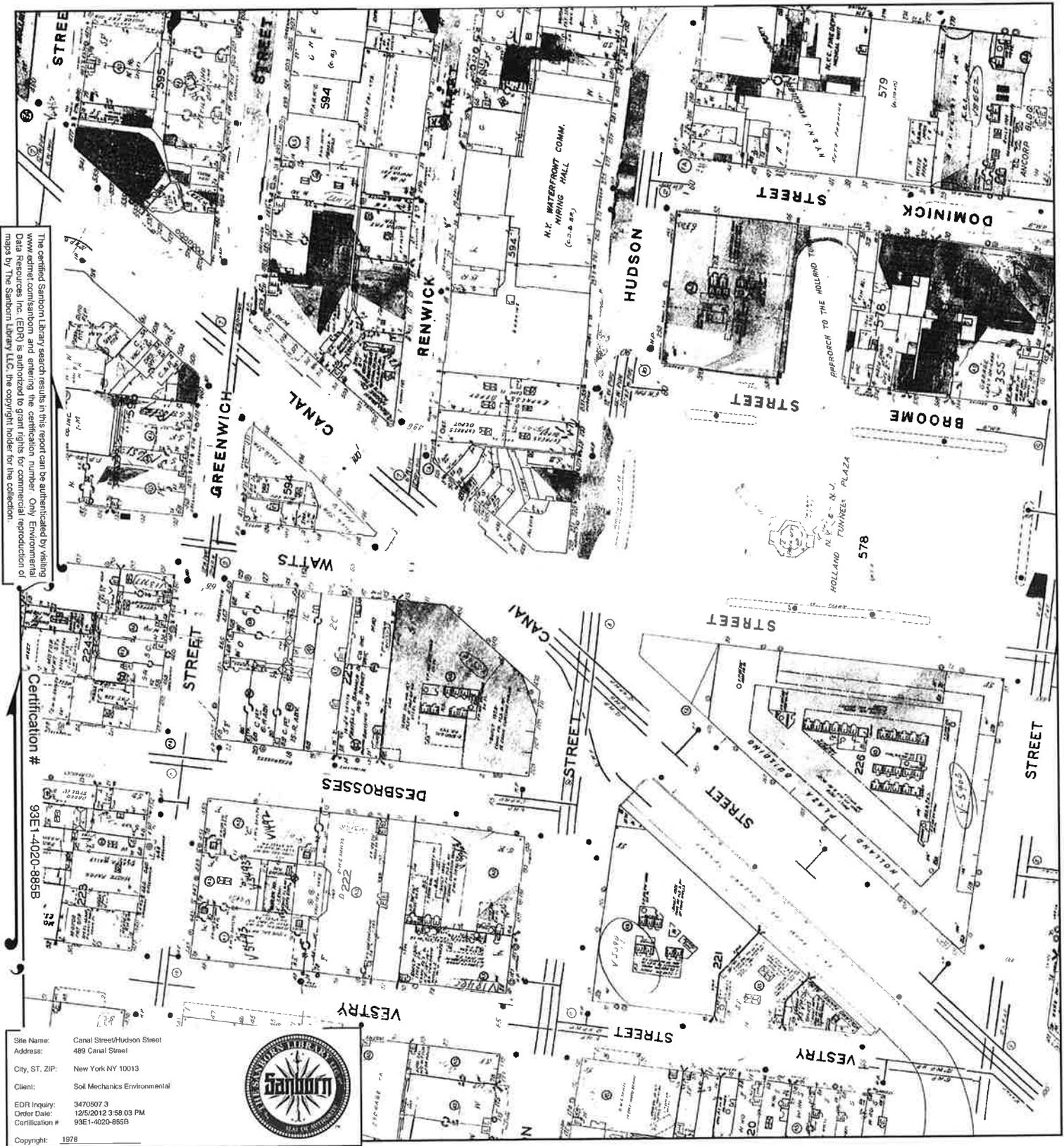


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Outlined areas indicate map sheets within the collection.



- Volume 1N, Sheet 40
- Volume 1N, Sheet 42
- Volume 1N, Sheet 63
- Volume 1N, Sheet 63
- Volume 1N, Sheet 65

1978 Certified Sanborn Map



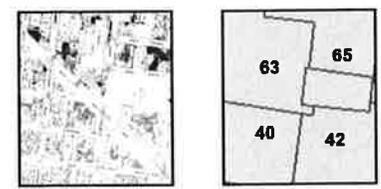
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Certification #
93E1-4020-855B

Site Name: Canal Street/Hudson Street
 Address: 489 Canal Street
 City, ST, ZIP: New York NY 10013
 Client: Soil Mechanics Environmental
 EDRI Inquiry: 3470507 3
 Order Date: 12/5/2012 3:58:03 PM
 Certification #: 93E1-4020-855B
 Copyright: 1978



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 Outlined areas indicate map sheets within the collection.



- Volume 1N, Sheet 63
- Volume 1N, Sheet 65
- Volume 1N, Sheet 40
- Volume 1N, Sheet 42

1977 Certified Sanborn Map



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Certification #
93E1-4020-885B

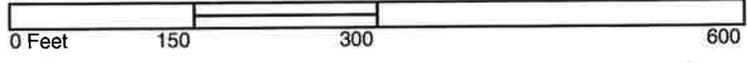
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 Address: 489 Canal Street
 City, ST, ZIP: New York NY 10013
 Client: Soil Mechanics Environmental
 EDRI Inquiry: 3470507-3
 Order Date: 12/5/2012 3:56:03 PM
 Certification #: 93E1-4020-885B

Copyright: 1977

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- Volume 1N, Sheet 40
- Volume 1N, Sheet 42
- Volume 1N, Sheet 63
- Volume 1N, Sheet 65



1976 Certified Sanborn Map



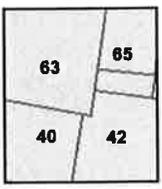
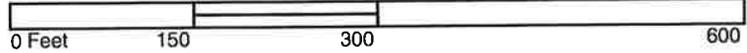
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Certification # 93E1-4020-885B

Site Name: Canal Street/Hudson Street
 Address: 489 Canal Street
 City, ST, ZIP: New York NY 10013
 Client: Soil Mechanics Environmental
 EDRI Inquiry: 3470507.3
 Order Date: 12/5/2012 3:58:03 PM
 Certification #: 93E1-4020-885B
 Copyright: 1976



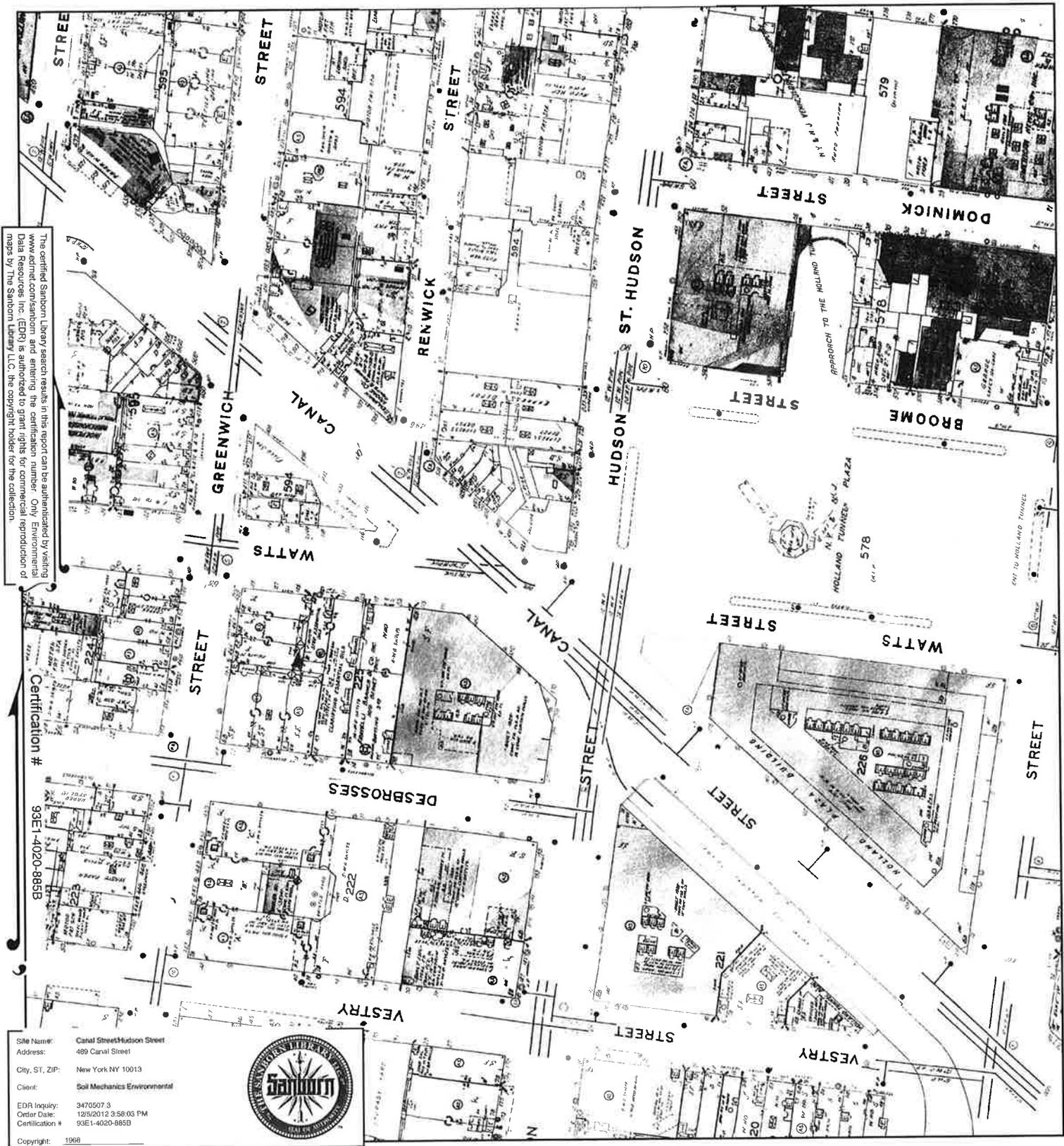
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- Volume 1N, Sheet 42
- Volume 1N, Sheet 63
- Volume 1N, Sheet 65



1968 Certified Sanborn Map



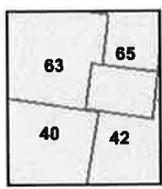
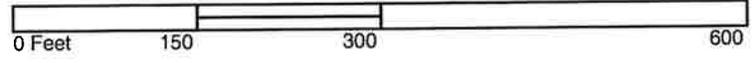
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Site Name: Canal Street/Hudson Street
 Address: 489 Canal Street
 City, ST, ZIP: New York NY 10013
 Client: Soil Mechanics Environmental
 EDR Inquiry: 3470507.3
 Order Date: 12/5/2012 3:58:03 PM
 Certification #: 93E1-4020-885B
 Copyright: 1968



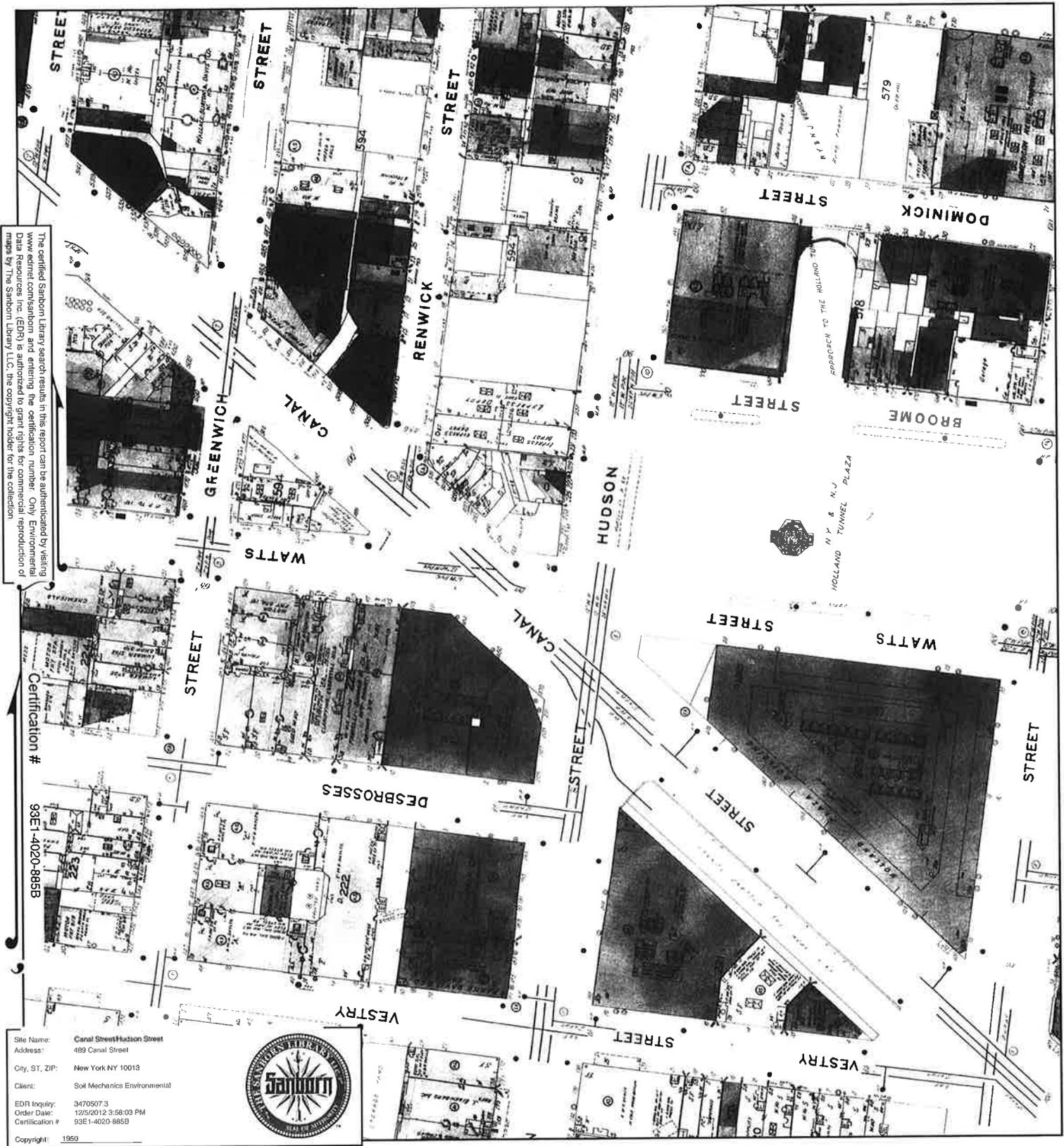
This Certified Sanborn Map combines the following sheets.
 Outlined areas indicate map sheets within the collection.



- Volume 1N, Sheet 40
- Volume 1N, Sheet 42
- Volume 1N, Sheet 63
- Volume 1N, Sheet 65



1950 Certified Sanborn Map



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 Address: 489 Canal Street
 City, ST, ZIP: New York NY 10013
 Client: Soil Mechanics Environmental
 EDRI Inquiry: 3470507.3
 Order Date: 12/5/2012 3:58:03 PM
 Certification #: 93E1-4020-885B
 Copyright: 1950

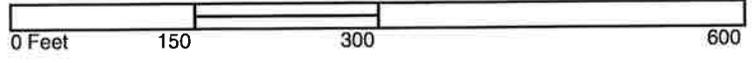


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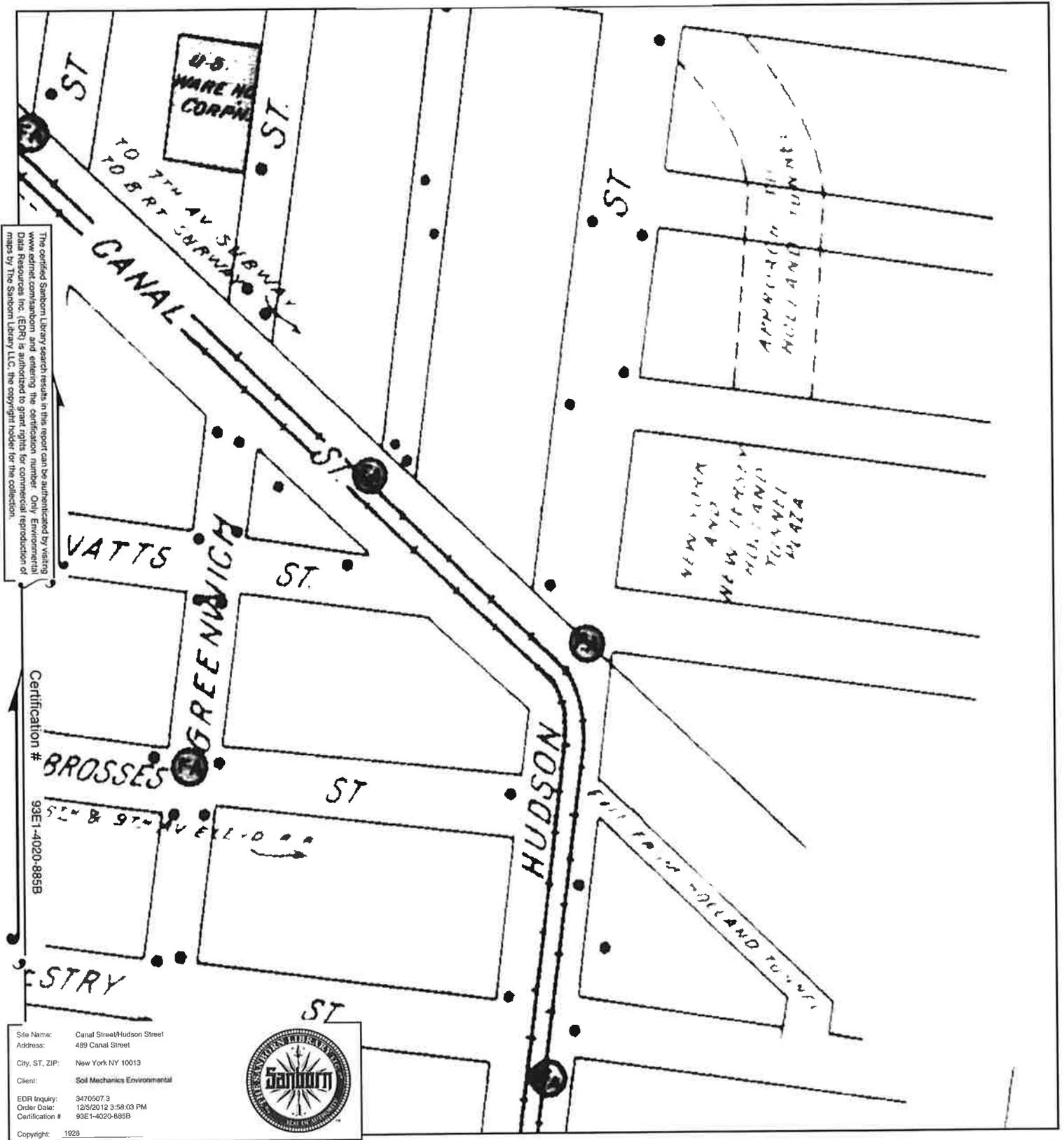


63	65
XXXX	
40	42

- Volume 3, Sheet xxxx
- Volume 1N, Sheet 40
- Volume 1N, Sheet 42
- Volume 1N, Sheet 63
- Volume 1N, Sheet 65
- Volume 1S, Sheet xxxx
- Volume 2, Sheet xxxx



1928 Certified Sanborn Map



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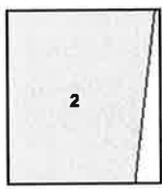
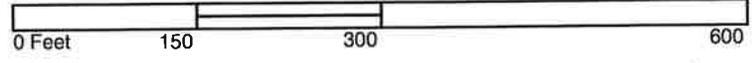
Certification # 93E1-4020-885B

Site Name: Canal Street/Hudson Street
 Address: 489 Canal Street
 City, ST, ZIP: New York NY 10013
 Client: Soil Mechanics Environmental
 EDR Inquiry: 3470507.3
 Order Date: 12/5/2012 3:58:03 PM
 Certification # 93E1-4020-885B



Copyright: 1928

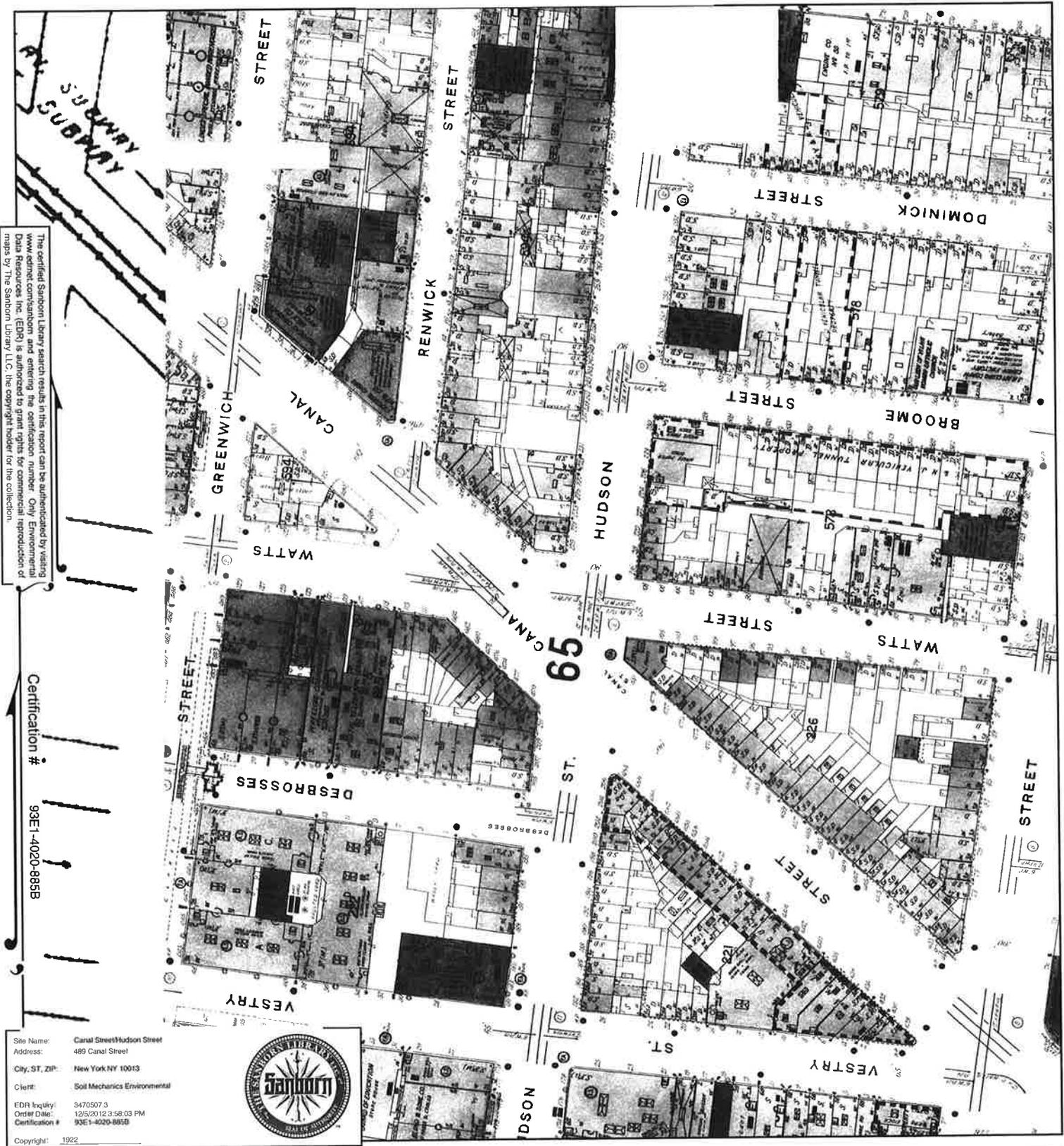
This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



Volume Pier Maps, Sheet 2



1922 Certified Sanborn Map



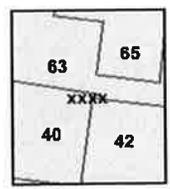
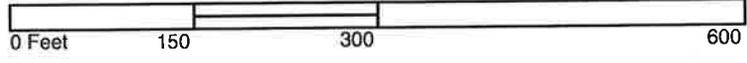
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Certification # 93E1-4020-885B

Site Name: Canal Street/Hudson Street
 Address: 489 Canal Street
 City, ST, ZIP: New York NY 10013
 Client: Soil Mechanics Environmental
 EDR Inquiry: 34705073
 Order Date: 12/5/2012 3:58:03 PM
 Certification #: 93E1-4020-885B



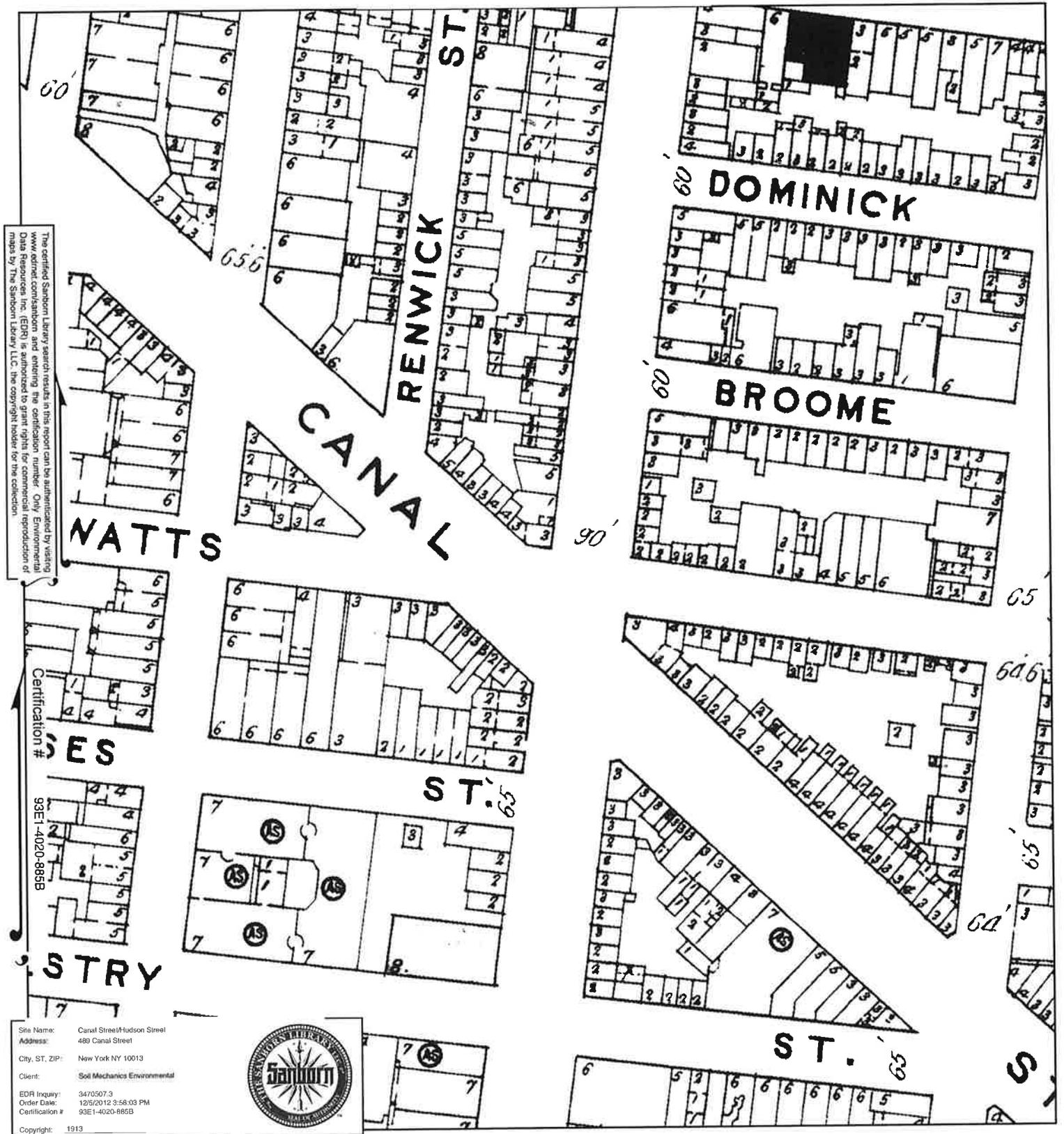
This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



- Volume 1N, Sheet 63
- Volume 1N, Sheet 65
- Volume 1N, Sheet xxxx
- Volume 1N, Sheet 40
- Volume 1N, Sheet 42



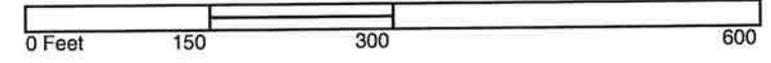
1913 Certified Sanborn Map



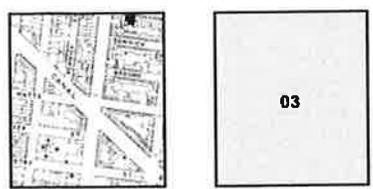
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Certification # 93E1-4020-885B

Site Name: Canal Street/Hudson Street
 Address: 489 Canal Street
 City, ST, ZIP: New York NY 10013
 Client: Soil Mechanics Environmental
 EDR Inquiry: 3470507-3
 Order Date: 12/5/2012 2:58:03 PM
 Certification #: 93E1-4020-885B
 Copyright: 1913



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Volume Atlas Maps, Sheet 03



1905 Certified Sanborn Map



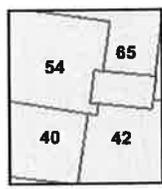
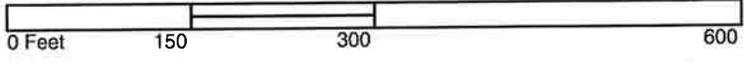
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Site Name: Canal Street/Hudson Street
 Address: 480 Canal Street
 City, ST, ZIP: New York NY 10013
 Client: Soil Mechanics Environmental
 EDR Inquiry #: 3470507.3
 Order Date: 12/5/2012 3:58:03 PM
 Certification #: 93E1-4020-885B



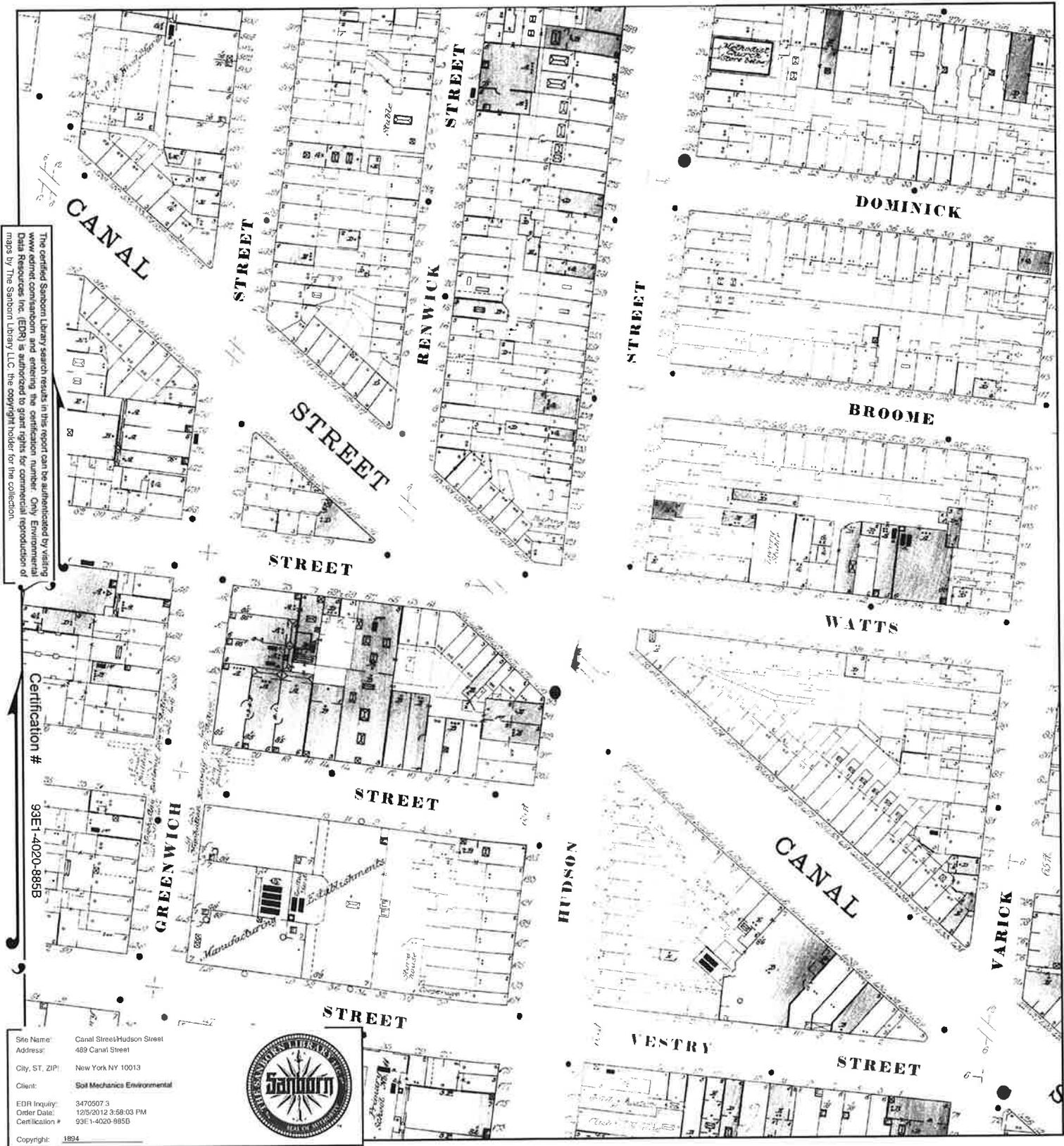
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 Outlined areas indicate map sheets within the collection.



- Volume 1N, Sheet 40
- Volume 1N, Sheet 42
- Volume 1N, Sheet 54
- Volume 1N, Sheet 65



1894 Certified Sanborn Map



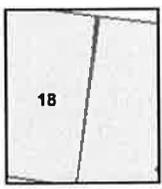
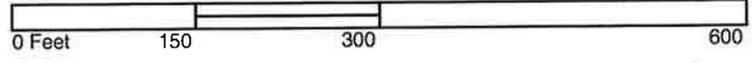
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 Address: 489 Canal Street
 City, ST, ZIP: New York NY 10013
 Client: Soil Mechanics Environmental
 EDRI Inquiry: 3470507.3
 Order Date: 12/5/2012 3:59:03 PM
 Certification #: 93E1-4020-895B
 Copyright: 1894



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



Volume 1N, Sheet 18
 Volume 1N, Sheet 18



**AERIAL PHOTO DECADE
PACKAGE**



Canal Street/Hudson Street

489 Canal Street

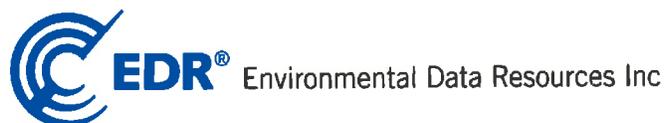
New York, NY 10013

Inquiry Number: 3470507.5

December 06, 2012



The EDR Aerial Photo Decade Package



440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography December 06, 2012

Target Property:

489 Canal Street

New York, NY 10013

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1924	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;Flight Date: July 01, 1924	EDR
1943	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;Flight Date: December 21, 1943	EDR
1954	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;Flight Date: February 27, 1954	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;Flight Date: February 23, 1966	EDR
1975	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;Flight Date: April 01, 1975	EDR
1984	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;Flight Date: April 27, 1984	EDR
1997,1994,1995	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;Composite DOQQ - acquisition dates: April 10, 1997, April 04, 1994, March 13, 1995	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;Flight Year: 2006	EDR
2008	Aerial Photograph. Scale: 1"=500'	Panel #: 40074-F1, Jersey City, NJ;Flight Year: 2008	EDR



INQUIRY #: 3470507.5

YEAR: 1924

|—————| = 500'





INQUIRY #: 3470507.5

YEAR: 1943

— = 500'





INQUIRY #: 3470507.5

YEAR: 1954

| = 500'





INQUIRY #: 3470507.5

YEAR: 1966

| = 500'



INQUIRY #: 3470507.5

YEAR: 1975

| = 500'





INQUIRY #: 3470507.5

YEAR: 1984

| = 500'





INQUIRY #: 3470507.5

YEAR: 1997, 1994, 1995

(DOQQ)

 = 500'





INQUIRY #: 3470507.5

YEAR: 2006

| = 500'





INQUIRY #: 3470507.5

YEAR: 2008

|—————| = 500'



HISTORICAL TOPOGRAPHIC MAP REPORT



Canal Street/Hudson Street

489 Canal Street

New York, NY 10013

Inquiry Number: 3470507.4

December 05, 2012

EDR Historical Topographic Map Report

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.'s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

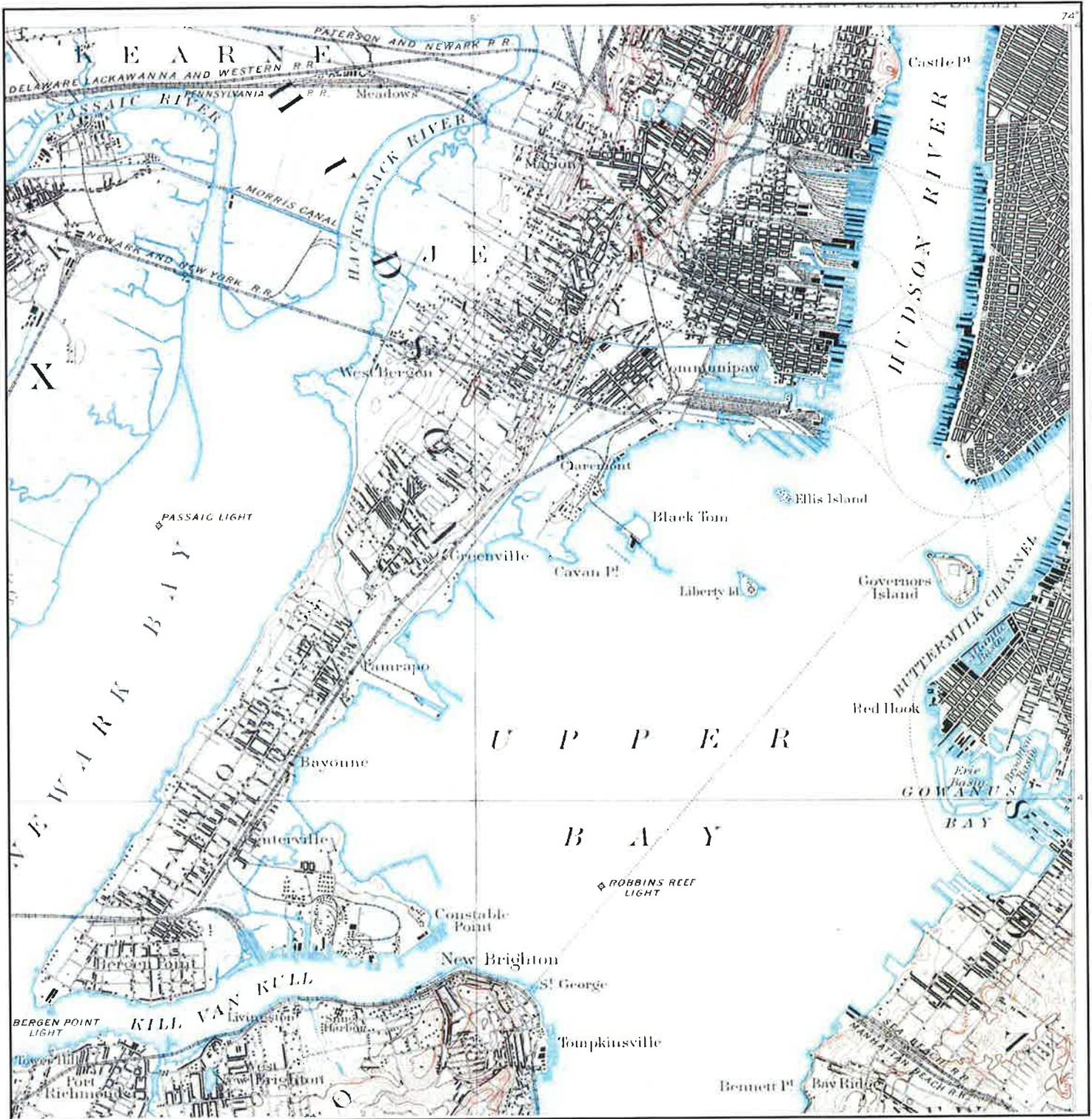
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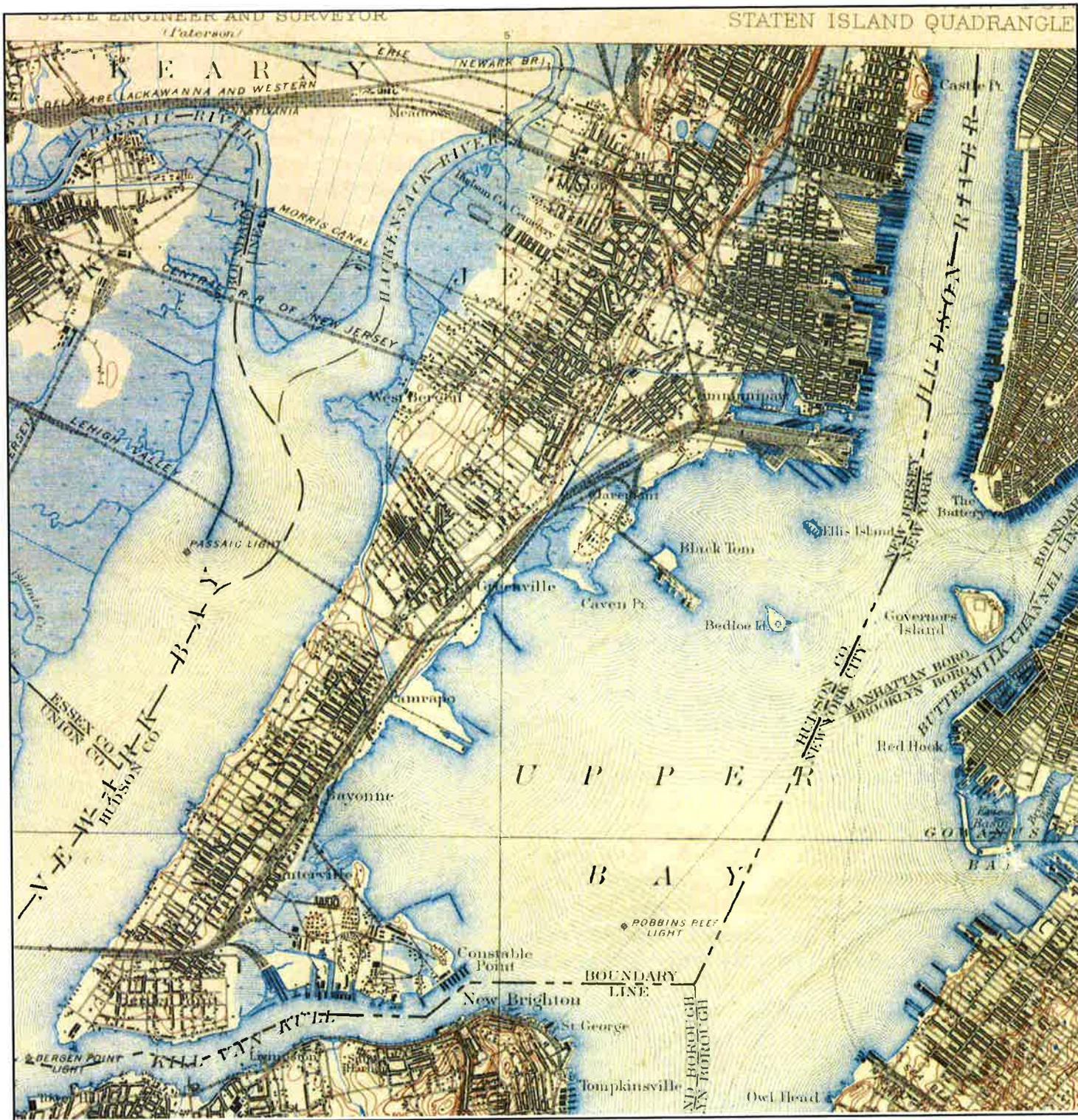
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Historical Topographic Map



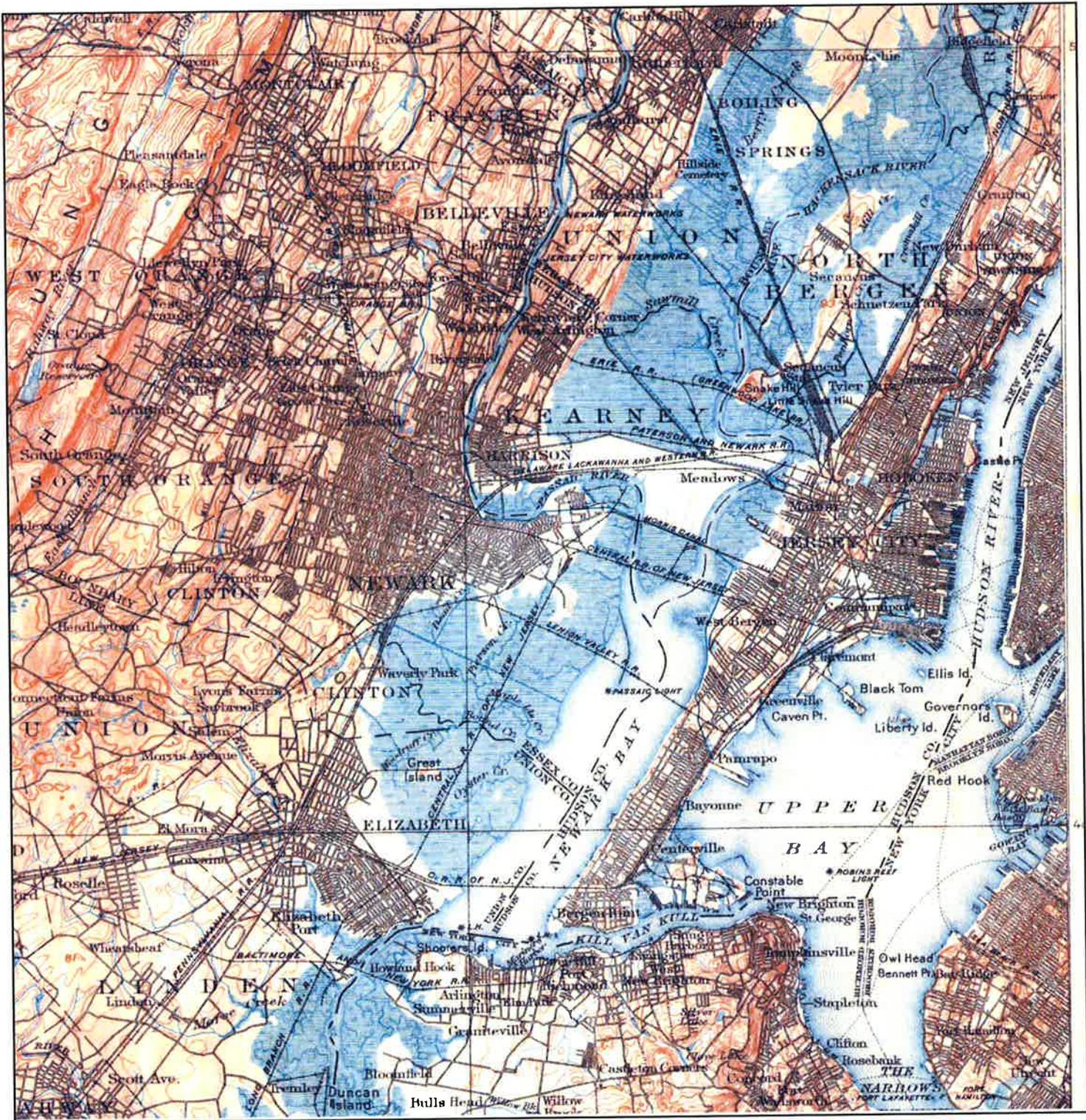
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	<p>SERIES: 15 SCALE: 1:62500</p>	<p>LAT/LONG: 40.724 / -74.0081</p>	

Historical Topographic Map



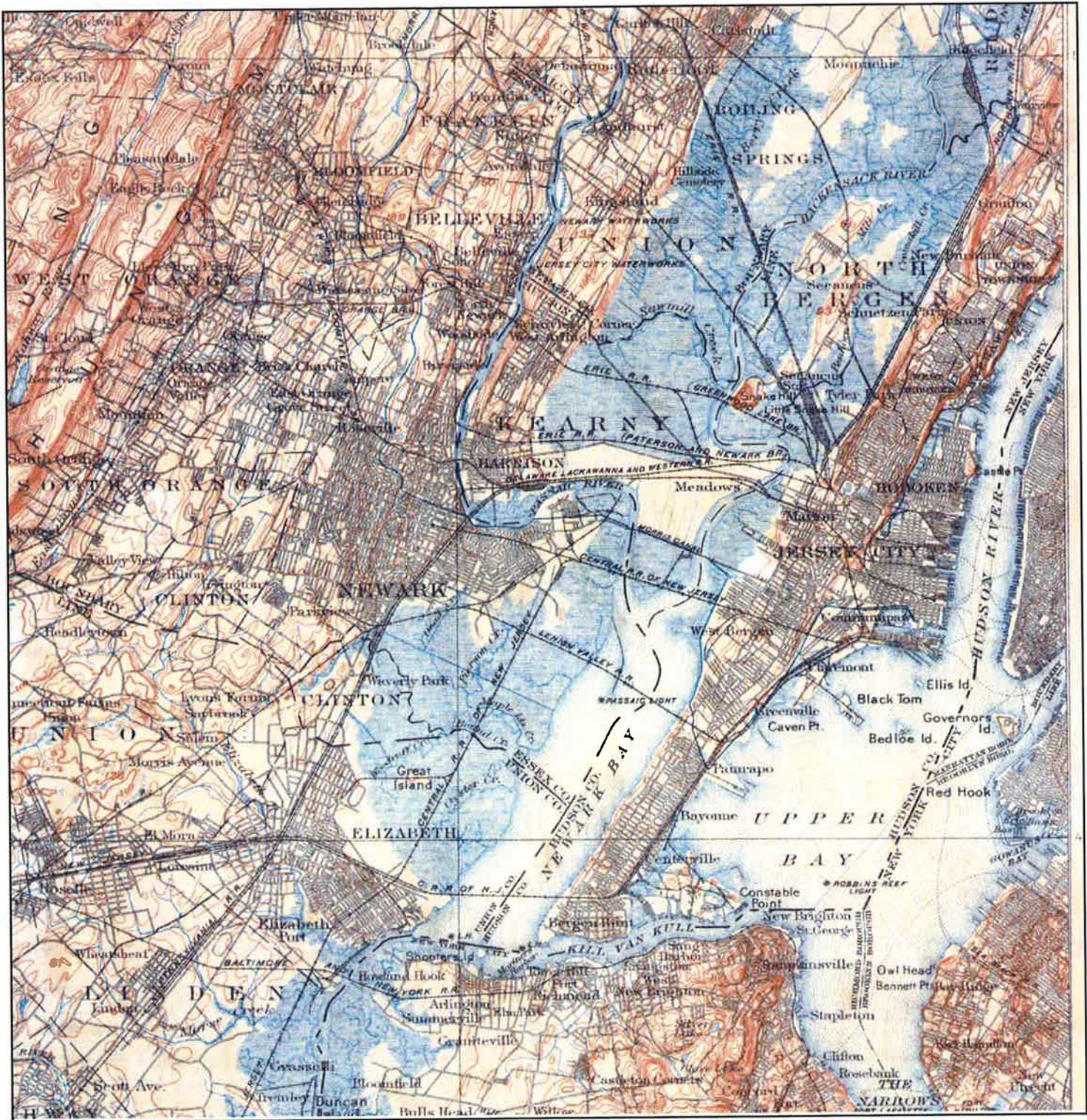
<p>N</p> <p>↑</p>	<p>TARGET QUAD</p> <p>NAME: STATEN ISLAND</p> <p>MAP YEAR: 1900</p>	<p>SITE NAME: Canal Street/Hudson Street</p> <p>ADDRESS: 489 Canal Street New York, NY 10013</p> <p>LAT/LONG: 40.724 / -74.0081</p>	<p>CLIENT: Soil Mechanics Environmental</p> <p>CONTACT: Daren Murphy</p> <p>INQUIRY#: 3470507.4</p> <p>RESEARCH DATE: 12/05/2012</p>
	<p>SERIES: 15</p> <p>SCALE: 1:62500</p>		

Historical Topographic Map



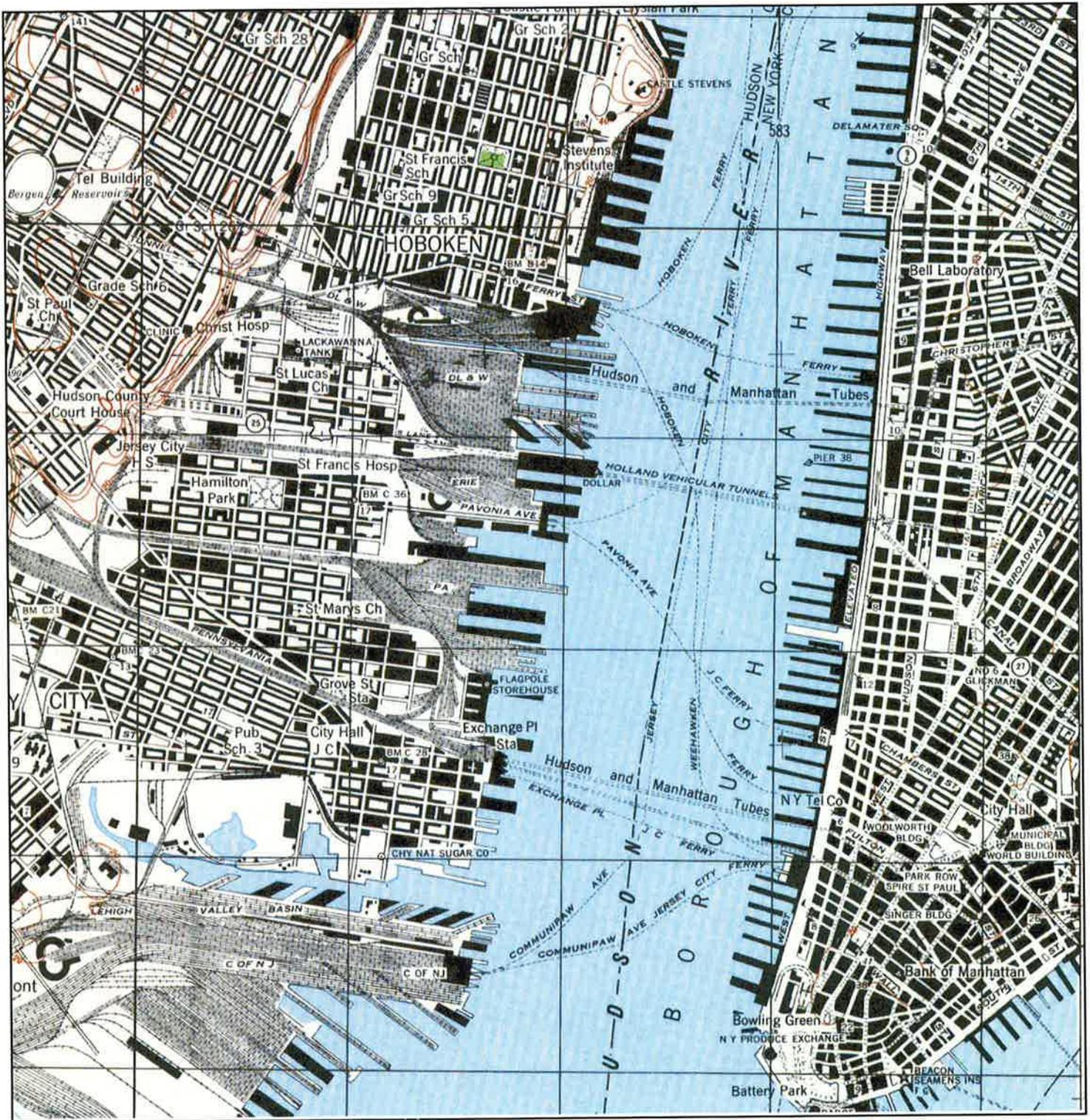
<p>N ↑</p>	<p>TARGET QUAD NAME: PASSAIC MAP YEAR: 1900</p>	<p>SITE NAME: Canal Street/Hudson Street ADDRESS: 489 Canal Street New York, NY 10013</p>	<p>CLIENT: Soil Mechanics Environmental CONTACT: Daren Murphy INQUIRY#: 3470507.4 RESEARCH DATE: 12/05/2012</p>
	<p>SERIES: 30 SCALE: 1:125000</p>	<p>LAT/LONG: 40.724 / -74.0081</p>	

Historical Topographic Map



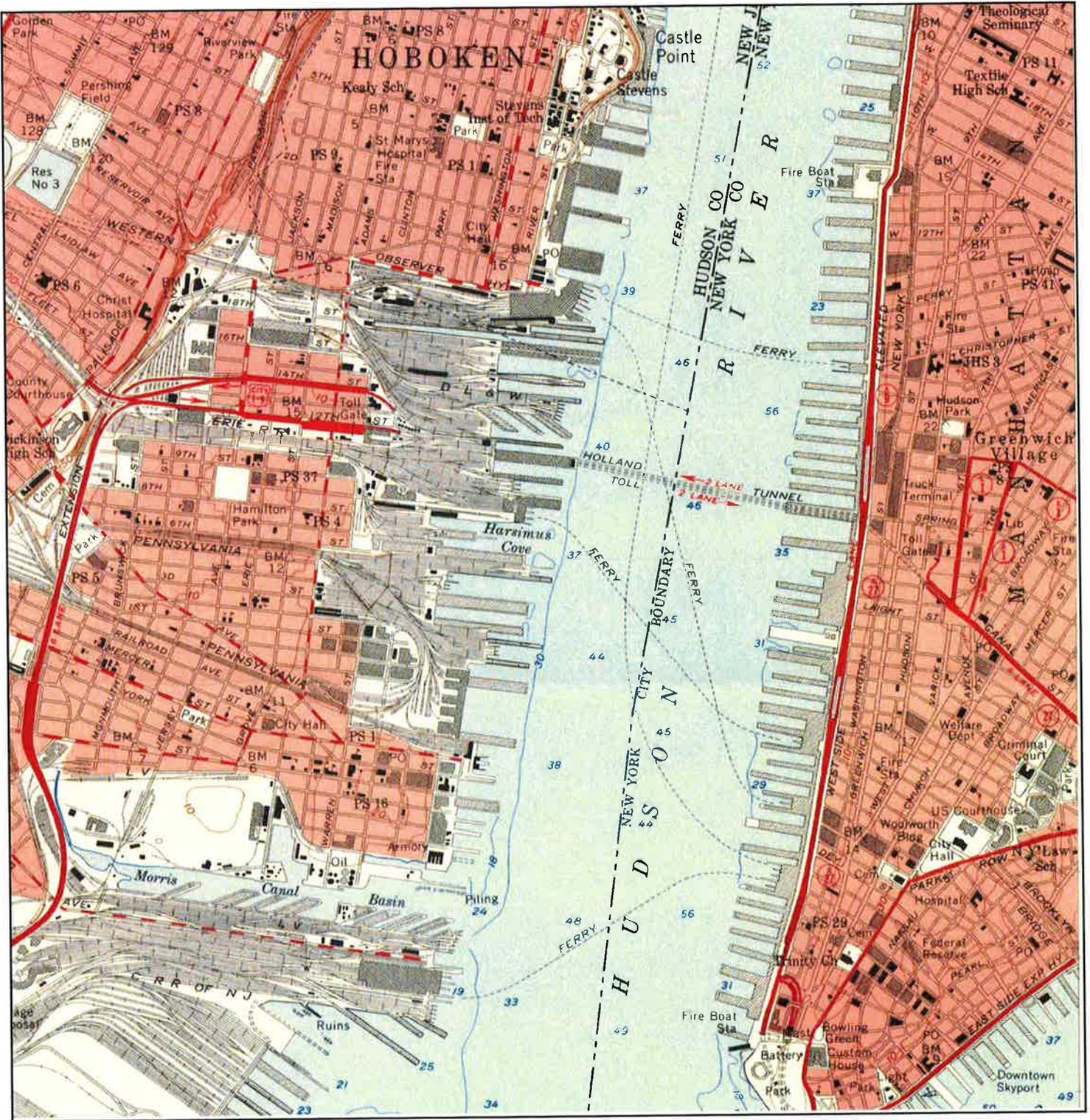
<p>N ↑</p>	<p>TARGET QUAD NAME: PASSAIC MAP YEAR: 1905</p>	<p>SITE NAME: Canal Street/Hudson Street</p>	<p>CLIENT: Soil Mechanics Environmental</p>
	<p>SERIES: 30 SCALE: 1:125000</p>	<p>ADDRESS: 489 Canal Street New York, NY 10013</p> <p>LAT/LONG: 40.724 / -74.0081</p>	<p>CONTACT: Daren Murphy INQUIRY#: 3470507.4 RESEARCH DATE: 12/05/2012</p>

Historical Topographic Map



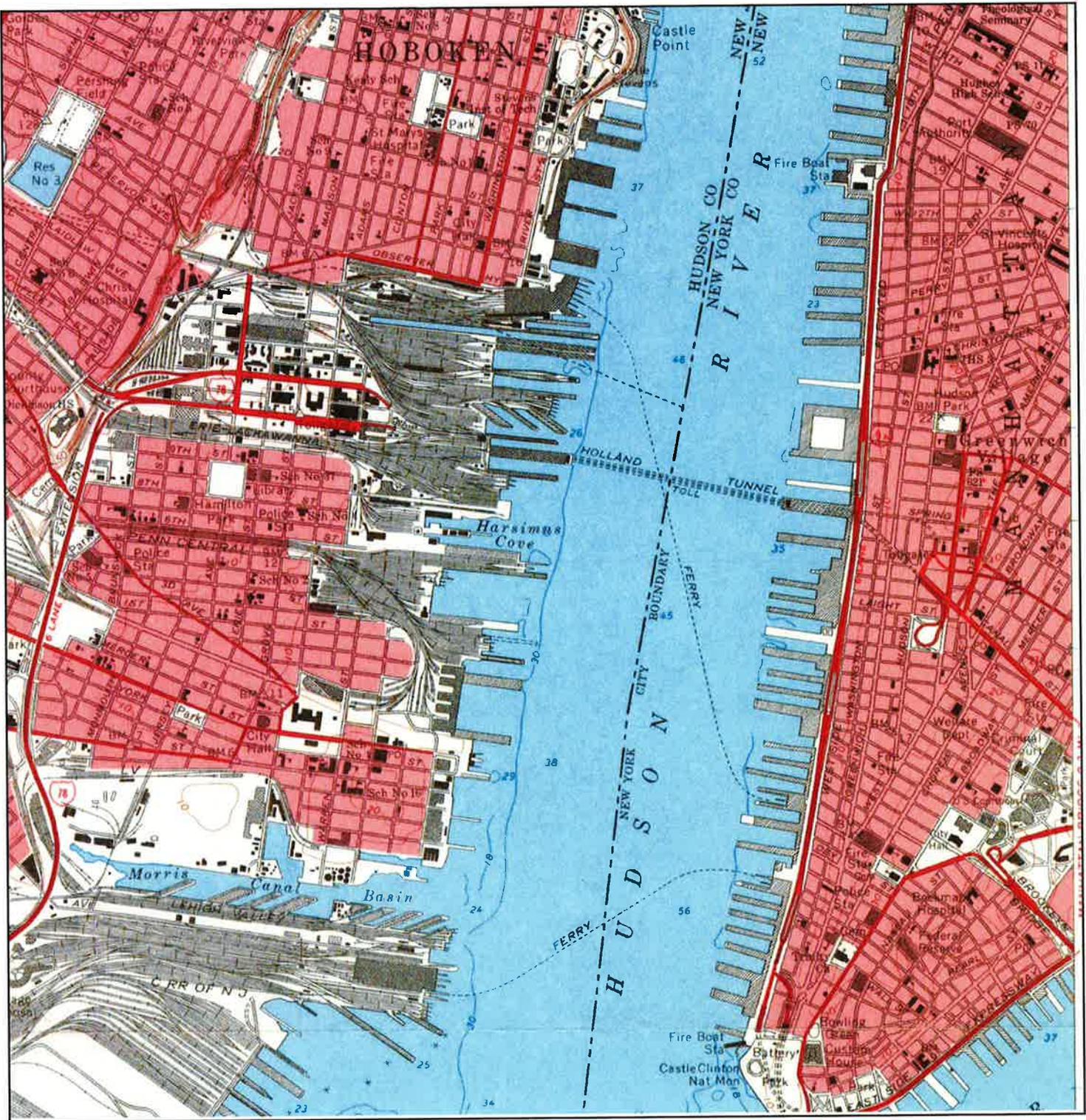
<p>N ↑</p>	<p>TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1947</p>	<p>SITE NAME: Canal Street/Hudson Street ADDRESS: 489 Canal Street New York, NY 10013</p>	<p>CLIENT: Soil Mechanics Environmental CONTACT: Daren Murphy INQUIRY#: 3470507.4 RESEARCH DATE: 12/05/2012</p>
	<p>SERIES: 7.5 SCALE: 1:25000</p>	<p>LAT/LONG: 40.724 / -74.0081</p>	

Historical Topographic Map



N 	TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1955	SITE NAME: Canal Street/Hudson Street ADDRESS: 489 Canal Street New York, NY 10013	CLIENT: Soil Mechanics Environmental CONTACT: Daren Murphy INQUIRY#: 3470507.4 RESEARCH DATE: 12/05/2012
	SERIES: 7.5 SCALE: 1:24000	LAT/LONG: 40.724 / -74.0081	

Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1967</p>	<p>SITE NAME: Canal Street/Hudson Street ADDRESS: 489 Canal Street New York, NY 10013</p>	<p>CLIENT: Soil Mechanics Environmental CONTACT: Daren Murphy INQUIRY#: 3470507.4 RESEARCH DATE: 12/05/2012</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>	<p>LAT/LONG: 40.724 / -74.0081</p>	

Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: JERSEY CITY MAP YEAR: 1981 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000</p>	<p>SITE NAME: Canal Street/Hudson Street ADDRESS: 489 Canal Street New York, NY 10013 LAT/LONG: 40.724 / -74.0081</p>	<p>CLIENT: Soil Mechanics Environmental CONTACT: Daren Murphy INQUIRY#: 3470507.4 RESEARCH DATE: 12/05/2012</p>
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Historical Topographic Map



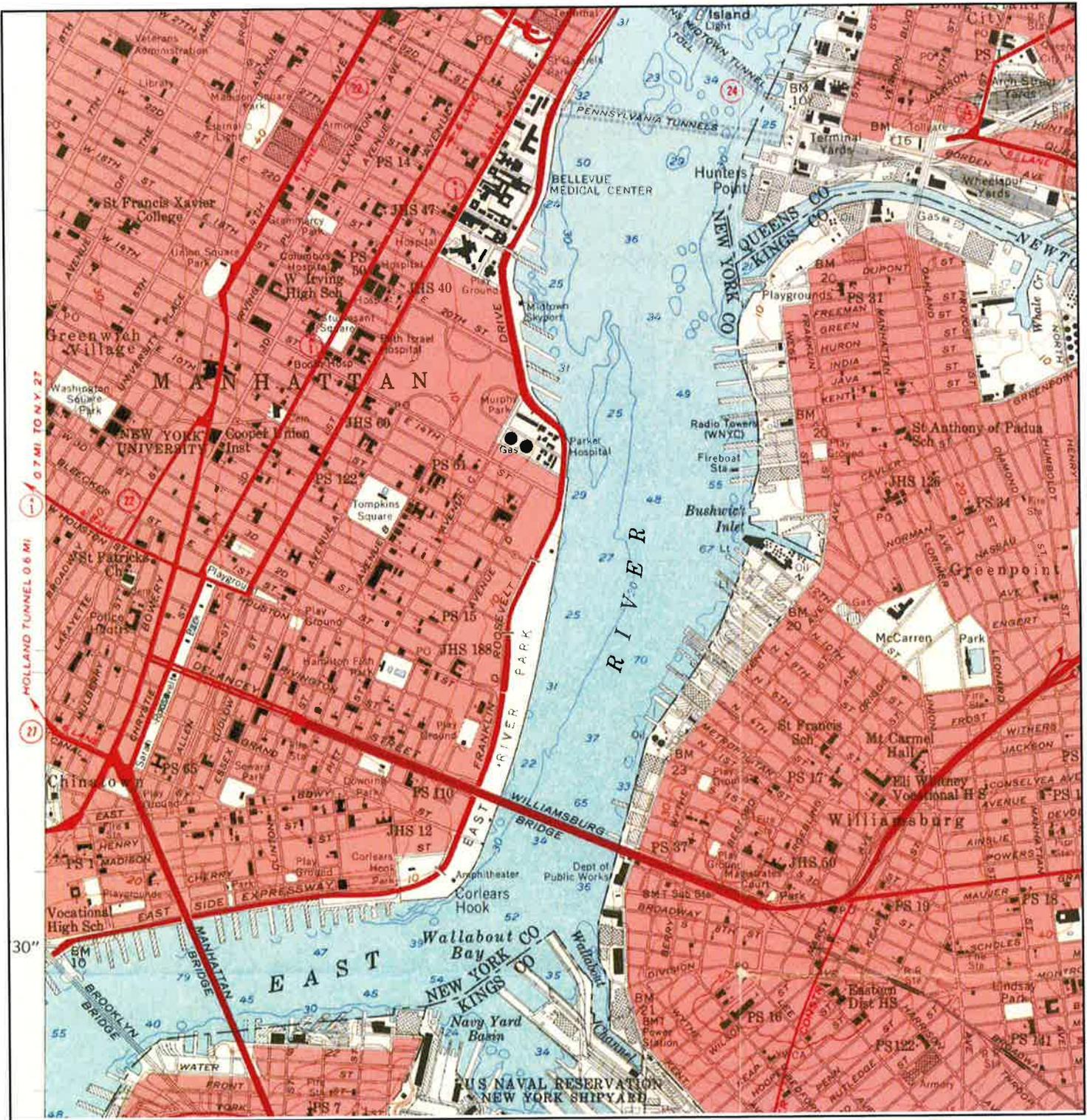
<p>N</p> 	ADJOINING QUAD	SITE NAME:	CLIENT:
	NAME: BROOKLYN	Canal Street/Hudson Street	Soil Mechanics Environmental
	MAP YEAR: 1900	ADDRESS: 489 Canal Street	CONTACT: Daren Murphy
	SERIES: 15	New York, NY 10013	INQUIRY#: 3470507.4
SCALE: 1:62500	LAT/LONG: 40.724 / -74.0081	RESEARCH DATE: 12/05/2012	

Historical Topographic Map



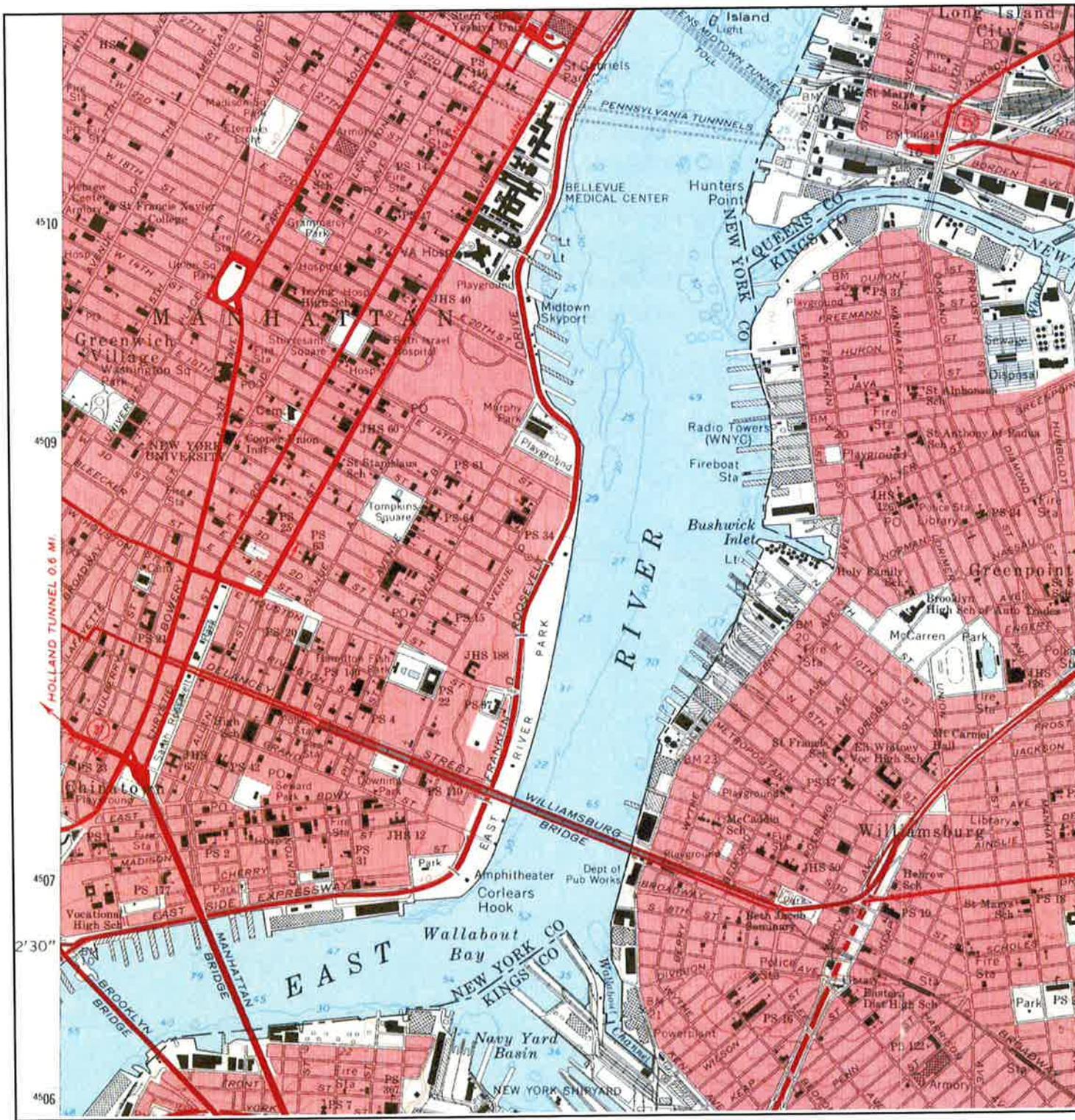
N 	ADJOINING QUAD NAME: BROOKLYN	SITE NAME: Canal Street/Hudson Street	CLIENT: Soil Mechanics Environmental
	MAP YEAR: 1947	ADDRESS: 489 Canal Street New York, NY 10013	CONTACT: Daren Murphy
SERIES: 7.5	LAT/LONG: 40.724 / -74.0081	INQUIRY#: 3470507.4	RESEARCH DATE: 12/05/2012
SCALE: 1:25000			

Historical Topographic Map



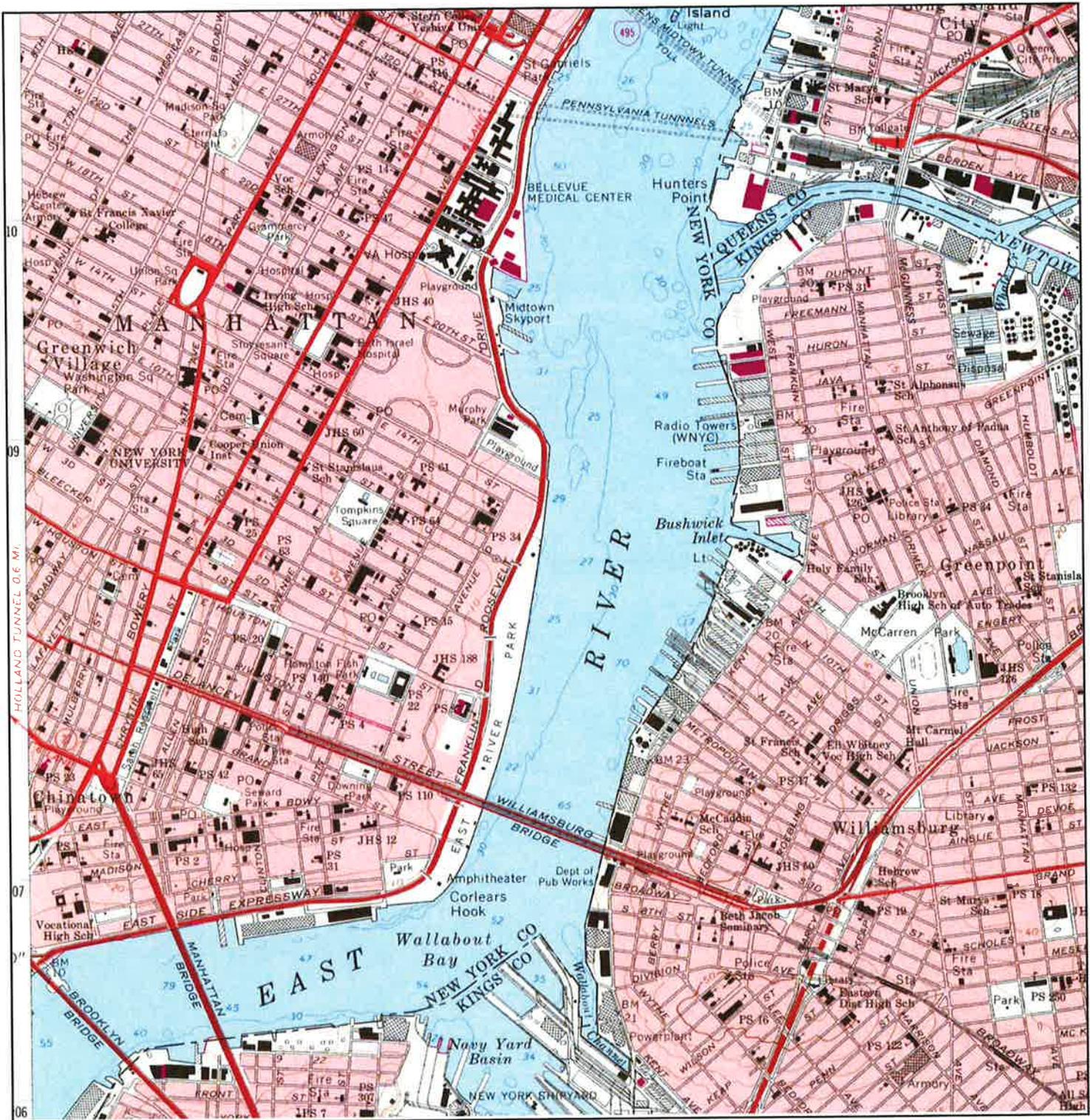
N ↑	ADJOINING QUAD	SITE NAME:	CLIENT:
	NAME: BROOKLYN	Canal Street/Hudson Street	Soil Mechanics Environmental
	MAP YEAR: 1956	ADDRESS: 489 Canal Street	CONTACT: Daren Murphy
	SERIES: 7.5	New York, NY 10013	INQUIRY#: 3470507.4
SCALE: 1:24000	LAT/LONG: 40.724 / -74.0081	RESEARCH DATE: 12/05/2012	

Historical Topographic Map



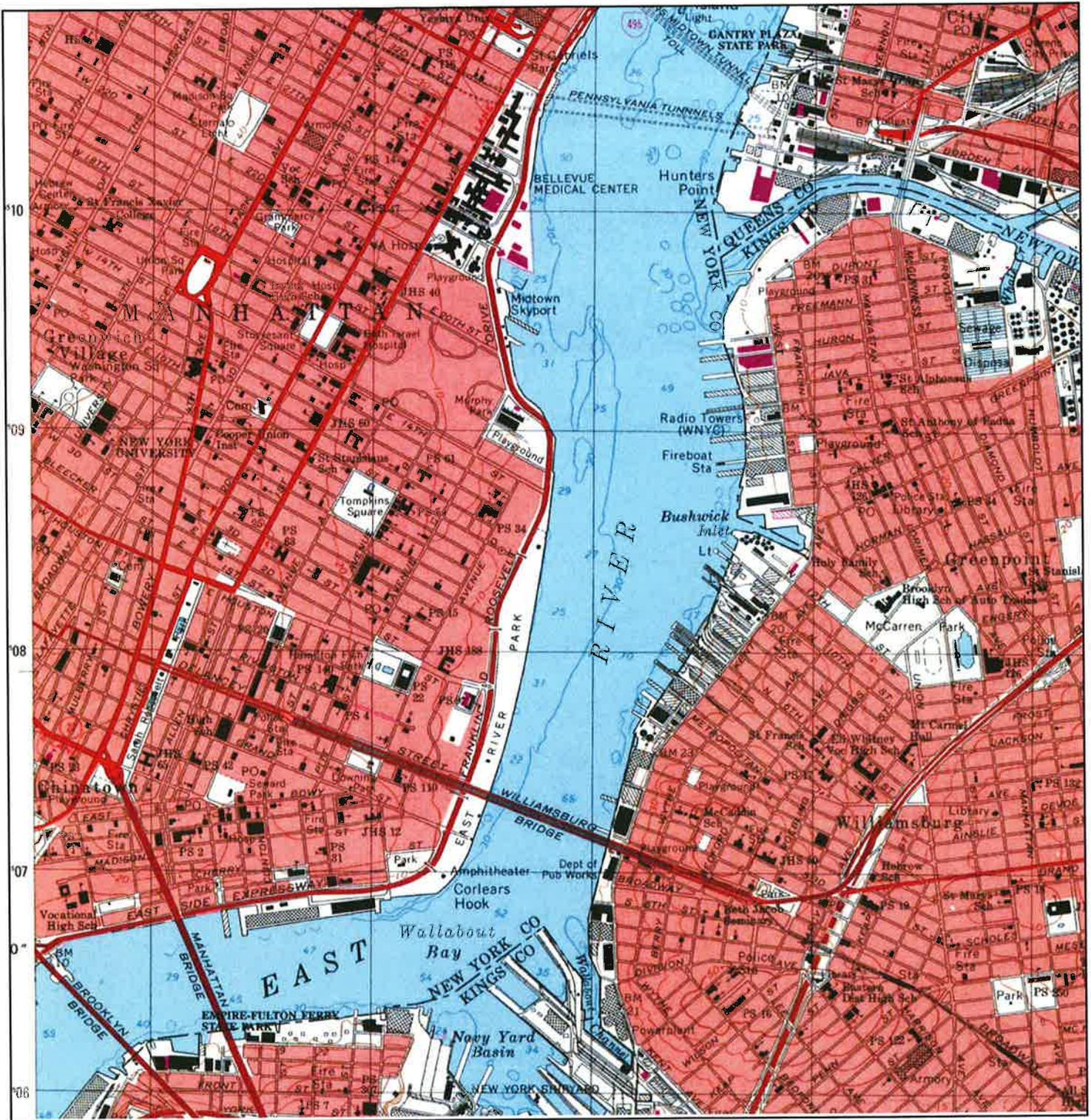
<p>N</p> <p>↑</p>	<p>ADJOINING QUAD NAME: BROOKLYN</p> <p>MAP YEAR: 1967</p>	<p>SITE NAME: Canal Street/Hudson Street</p> <p>ADDRESS: 489 Canal Street</p> <p>NEW YORK, NY 10013</p> <p>LAT/LONG: 40.724 / -74.0081</p>	<p>CLIENT: Soil Mechanics Environmental</p> <p>CONTACT: Daren Murphy</p> <p>INQUIRY#: 3470507.4</p> <p>RESEARCH DATE: 12/05/2012</p>
	<p>SERIES: 7.5</p> <p>SCALE: 1:24000</p>		

Historical Topographic Map



N 	ADJOINING QUAD	SITE NAME: Canal Street/Hudson Street	CLIENT: Soil Mechanics Environmental	
	NAME: BROOKLYN	ADDRESS: 489 Canal Street	CONTACT: Daren Murphy	
	MAP YEAR: 1979	LAT/LONG: 40.724 / -74.0081	INQUIRY#: 3470507.4	RESEARCH DATE: 12/05/2012
	PHOTOREVISED FROM : 1967			
	SERIES: 7.5			
SCALE: 1:24000				

Historical Topographic Map



N 	ADJOINING QUAD	SITE NAME:	CLIENT:
	NAME: BROOKLYN	Canal Street/Hudson Street	Soil Mechanics Environmental
	MAP YEAR: 1995	ADDRESS:	CONTACT: Daren Murphy
	SERIES: 7.5	New York, NY 10013	INQUIRY#: 3470507.4
	SCALE: 1:24000	LAT/LONG: 40.724 / -74.0081	RESEARCH DATE: 12/05/2012

**NYC DEPARTMENT OF BUILDINGS
INFORMATION**



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NYC Department of Buildings
Property Profile Overview

489 CANAL STREET	MANHATTAN 10013	BIN# 1010318
CANAL STREET	Health Area : 6800	Tax Block : 594
HUDSON STREET	Census Tract : 37	Tax Lot : 108
	Community Board : 102	Condo : NO
	Buildings on Lot : 1	Vacant : NO

[View DCP Addresses...](#) [Browse Block](#)

[View Zoning Documents](#)

[View Challenge Results](#)

[View Certificates of Occupancy](#)

Cross Street(s): WATTS STREET, RENWICK STREET

DOB Special Place Name:

DOB Building Remarks:

Landmark Status:

Local Law:

SRO Restricted:

UB Restricted:

Little 'E' Restricted:

Legal Adult Use:

Additional BINs for Building:

Special District:

Special Status: N/A
Loft Law: NO
TA Restricted: NO
Grandfathered Sign: NO
City Owned: NO

UNKNOWN

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: G6-GARAGE/GAS STATION

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	Elevator Records
Complaints	13	1	Electrical Applications
Violations-DOB	5	2	Permits In-Process / Issued
Violations-ECB (DOB)	2	2	Illuminated Signs Annual Permits
			Plumbing Inspections
			Open Plumbing Jobs / Work Types
			Facades

This property has 1 open ECB "Work Without A Permit" Violations and may be subject to DOB civil penalties upon application for a permit. After obtaining the permit, a certificate of correction must be filed on the ECB violations.

[Jobs/Filings](#)

4

ARA / LAA Jobs	0	Marquee Annual Permits
Total Jobs	4	Boiler Records
Actions	53	DEP Boiler Information
		Crane Information
		After Hours Variance Permits

OR Enter Action Type:
OR Select from List:
Select...
AND [Show Actions]

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NYC Department of Buildings
C of O PDF Listing for Property

Premises: 489 CANAL STREET MANHATTAN

BIN: 1010318 Block: 594 Lot: 108

Download the [Adobe Acrobat Reader](#) if you are unable to open the PDF files

To report a problem with any of these images, please use the [CO Image Problem Form](#)

- CO 35938489CAN:
- CO 43154:
- CO 21292:
- CO 43154:
- CO 18897:

- [NO C/Os ISSUED OR NO IMAGE AVAILABLE](#)
- [M000043154.PDF](#)
- [M000021292.PDF](#)
- [M000043154.PDF](#)
- [M000018897.PDF](#)

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NYC Department of Buildings

Actions

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BIN: 1010318 Block: 594 Lot: 108

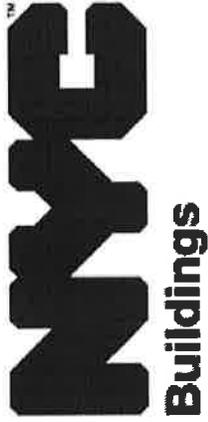
NUMBER	TYPE	FILE DATE
ALT 572-54	ALTERATION	00/00/1954
ALT 572-54	ALTERATION	00/00/1954
ALT 77-69"	ALTERATION	00/00/1969
ALT 966-71"	ALTERATION	00/00/1971
ALT 966-73"	ALTERATION	00/00/1973
ALT 520-78*	ALTERATION	00/00/1978
ALT 1383-85*	ALTERATION	00/00/1985
BN 228-49	BUILDING NOTICE	00/00/1949
BN 229-49	BUILDING NOTICE	00/00/1949
BN 3383-53	BUILDING NOTICE	00/00/1953

Premises: 489 CANAL STREET MANHATTAN

Next

Enter Action Type: Or Select from List: Select...

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NYC Department of Buildings
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BIN: [1010318](#) Block: 594 Lot: 108

Premises: 489 CANAL STREET MANHATTAN

NUMBER	TYPE	FILE DATE
BN 3650-89	BUILDING NOTICE	04/18/1989
CO 35938#489CAN	CERTIFICATE OF OCCUPANCY	00/00/0000
CO 43154	CERTIFICATE OF OCCUPANCY	00/00/0000
CO 21292	CERTIFICATE OF OCCUPANCY	00/00/0000
CO 43154	CERTIFICATE OF OCCUPANCY	00/00/0000
CO 18897	CERTIFICATE OF OCCUPANCY	00/00/0000
DP 35-32	DEMOLITION PERMIT	00/00/1932
DP 14-32	DEMOLITION PERMIT	00/00/1932
DP 24-33	DEMOLITION PERMIT	00/00/1933
ES 24-89	ELECTRIC SIGN	02/03/1989

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NYC Department of Buildings
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Premises: 489 CANAL STREET MANHATTAN

BIN: [1010318](#) Block: 594 Lot: 108

NUMBER	TYPE	FILE DATE
ESA 279-30	ELECTRIC SIGN APPLICATION	00/00/1930
ESA 1645-32	ELECTRIC SIGN APPLICATION	00/00/1932
ESA 1646-32	ELECTRIC SIGN APPLICATION	00/00/1932
ESA 3081-33	ELECTRIC SIGN APPLICATION	00/00/1933
ESA 3082-33	ELECTRIC SIGN APPLICATION	00/00/1933
ESA 1761-38	ELECTRIC SIGN APPLICATION	00/00/1938
ESA 99-45	ELECTRIC SIGN APPLICATION	00/00/1945
ESA 850-49	ELECTRIC SIGN APPLICATION	00/00/1949
ESA 851-49	ELECTRIC SIGN APPLICATION	00/00/1949
FO 455-39FP	OIL BURNER APPLICATION	00/00/1939

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NYC Department of Buildings

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BIN: [1010318](#) Block: 594 Lot: 108

Premises: 489 CANAL STREET MANHATTAN

NUMBER	TYPE	FILE DATE
GT 2044-53	GAS TANK	00/00/1953
LNO 2052	LETTER OF NO OBJECTION	02/03/2012

LNO AREA: PUBLIC PARKING GARAGE

LNO Use: APPROVED PUBLIC PARKING GARAGE

LNO Floor: FIRST (1ST) FLOOR

Comments: MAXIMUM CAPACITY OF TWENTY (20) CARS

NB 81-32	NEW BUILDING	00/00/1932
NB 81-32	NEW BUILDING	00/00/1932
NB 73-35	NEW BUILDING	00/00/1935
NB 173-48-P-1STYSERSTA	NEW BUILDING	00/00/1948
P 819-32	PLUMBING	00/00/1932
P 819-32	PLUMBING	00/00/1932
P 639-35	PLUMBING	00/00/1935
PER 1568-32G	PERMIT	00/00/1932

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NYC Department of Buildings

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BIN: [1010318](#) Block: 594 Lot: 108

Premises: 489 CANAL STREET MANHATTAN

NUMBER	TYPE	FILE DATE
PER 1568-32G	PERMIT	00/00/1932
PER 967-35M	PERMIT	00/00/1935
PRS 3045-62	PLUMBING REPAIR SLIP	00/00/1962
SG 3048-32		00/00/1932
SGA 18-32		00/00/1932
SR 3290-32	SPECIAL REPORT	00/00/1932
SR 1758-41	SPECIAL REPORT	00/00/1941
SR 244-49	SPECIAL REPORT	00/00/1949
UB 2339-13*	UNSAFE BUILDING	00/00/1913
UB 378-32*	UNSAFE BUILDING	00/00/1932

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NYC Department of Buildings
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Premises: 489 CANAL STREET MANHATTAN
BIN: 1010318 Block: 594 Lot: 108

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NUMBER

UB 378-32*

UB 379-32*

UB 380-33*

V* 2150=69

CLOSURE DATE: 09/28/2011

V* 7377-53

CLOSURE DATE: 09/28/2011

V* 585-54

CLOSURE DATE: 09/28/2011

V 092299ZSTF02MAD

V 051401CSTF01YC

VECB 122209CSTFAA76

VECB 122209CSTFAA75

TYPE

UNSAFE BUILDING

UNSAFE BUILDING

UNSAFE BUILDING

DOB VIOLATION - CLOSED

DOB VIOLATION - CLOSED

DOB VIOLATION - CLOSED

DOB VIOLATION - CLOSED

DOB VIOLATION - ACTIVE

DOB VIOLATION - ACTIVE

ECB VIOLATION - ACTIVE

ECB VIOLATION - ACTIVE

FILE DATE

00/00/1932

00/00/1932

00/00/1933

00/00/0000

00/00/0000

00/00/1954

09/22/1999

05/14/2001

12/22/2009

12/22/2009

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BUREAU OF BUILDINGS

BOROUGH OF MANHATTAN, CITY OF NEW YORK

CERTIFICATE OF OCCUPANCY No. 18897 **193**

Supersedes Certificate of Occupancy No.

To the owner or owners of the building:

New York **April 6, 19** **33**

THIS CERTIFIES that the building located on Block **694**, Lot **108-109**
 known as **219-223 Hudson Street**
15' front

61 N.B. conforms to the approved plans and specifications accompanying said permit and any approved amendments thereto, and to the requirements of the building code and all other laws and ordinances and to the rules and regulations of the board of standards and appeals, applicable to a building of its class and kind, except that in the case of a building heretofore existing and for which no previous certificate of occupancy has been issued and which has not been altered or converted since March 14, 1916, to a use that changed its classification as defined in the building code, this certificate confirms and continues the existing uses to which the building has been put; and

CERTIFIES FURTHER that the building is of **total** construction within the meaning of the building code and may be used and occupied as a **business** building as hereinafter qualified, in a **n unrestricted** district under the building zone resolution, subject to all the privileges, requirements, limitations and conditions prescribed by law or as hereinafter specified.

STORY	LIVE LOADS Lbs. per Sq. Ft.	PERSONS ACCOMMODATED			USE
		MALE	FEMALE	TOTAL	
1st Story	120	2		2	Office and Gasoline Selling Station

This certificate is issued to **Henry J. Nurick, architect**
880 Putnam Avenue, Bklyn., for the owner or owners.

The superimposed, uniformly distributed loads, or their equivalent concentrated loads in any story shall not exceed the live loads specified above; 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.

The building or any part thereof shall not be used for any purpose other than that for which it is certified.

Unless specifically stated above, the building or any part thereof, if certified as a public building, shall not be used as a building in which persons are harbored to receive medical, charitable or other care or treatment, such as a hospital, asylum, etc., or in which persons are held or detained under legal restraint, such as a police station, jail, etc.; nor shall it be used as a motion picture theatre as defined in section 30, chapter 3, Code of Ordinances; nor as a theatre or opera house or other building intended to be used for theatrical or operatic purposes, or for public entertainment of any kind, for the accommodation of more than 300 persons.

Unless specifically stated above, the building or any part thereof, if certified as a residence building, shall not be used as a tenement house as defined in the tenement house law; nor shall it be used as any form of residence building having more than 15 sleeping rooms; nor shall it be used as a lodging house within the meaning of Sec. 1305 of the Greater New York Charter.

Unless specifically stated above, the building or any part thereof, if certified as a business building, shall not be used as a garage, motor vehicle repair shop or oil selling station as defined in section 1, chapter 10, Code of Ordinances; nor shall it be used for the generation or compression of acetylene; nor as a factory building as defined in the labor law; nor as a grain elevator; nor as a coal pocket.

Except as otherwise noted above, the building, or any part thereof, if located elsewhere than in an unrestricted district, shall not be used for any of the purposes enumerated in paragraph (a) of section 4 of the building zone resolution; nor for any trade, industry or use that is noxious or offensive by reason of the emission of odor, dust, smoke, gas or noise; nor for any kind of manufacturing not already prohibited, except that, if located in a business district, not more than twenty-five per cent. of the total floor space may be so used, or space equal to the area of the lot in any case.

Except as otherwise noted above, the building, if certified as a garage, may not be used for more than five cars on any portion of a street between two intersecting streets, in which portion there exists an exit from or an entrance to a public school, or in which portion there exists any hospital maintained as a charitable institution; and in no case within a distance of 200 feet from the nearest exit from or entrance to a public school; nor within two hundred feet of any hospital maintained as a charitable institution.

If the building has, at any time previous to the issuance of this certificate, been the subject of an appeal to the board of appeals or of a petition to the board of standards and appeals resulting in modification or variation of law or any lawful requirement, the construction and arrangement of the building as specified in the resolution granting such modification or variation, must be maintained, and all conditions imposed by either board must be observed.

No change or re-arrangement in the structural parts of the building, or affecting the lighting or 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, until an approval of the same has been obtained from the superintendent of buildings.

This certificate supersedes each and every previously issued certificate of occupancy for this building or any part thereof, and each and every such previously issued certificate shall be null and void; and this certificate in turn becomes null and void upon the issuance of any new lawful certificate.

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 or licenses as may be prescribed by law for the uses or purposes for which the building is designed or intended; 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.

This certificate does not authorize the use or operation of any elevator in the building without the special certificate required by section 563 of the building code.

If the building is or is required to be equipped with standpipes or other fire extinguishing or gas shut off appliances, this certificate is not complete until such standpipes or other appliances have been inspected by the fire department (or by the Tenement House Department in the case of a gas shut off in a tenement house) and approved in writing, either in a separate certificate or by endorsement upon this certificate. (Space for such endorsement is provided on page 4 of this certificate.)

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 a tenement house unless also approved by the tenement house commissioner; and it must be replaced by a full certificate as soon as the entire building is completed according to law and ready for occupancy.

The word "class" as used in this certificate refers to the classification of buildings in the building code (section 70).

This certificate is issued in accordance with the provisions of section 411-a of the Greater New York Charter and of section 5 of chapter 5 (Building Code) of the Code of Ordinances of the City of New York.

Examined.

.....
Superintendent of Buildings, Borough of Manhattan.

Additional copies of this certificate will be issued, upon written request, to persons having a proprietary interest in the building.

DEPARTMENT OF BUILDINGS
BOROUGH OF MANHATTAN, CITY OF NEW YORK

E/B **CERTIFICATE OF OCCUPANCY No. 21292 1936**

Supersedes Certificate of Occupancy No.

To the owner or owners of the building: New York **May 25,** 19**36**.

THIS CERTIFIES that the building located on Block **594**, Lot **110**
 known as **493 Canal street**
15' front

under a permit, Application No. **73 N.B. of 1935**, conforms to the approved plans and specifications accompanying said permit and any approved amendments thereto, and to the requirements of the building code and all other laws and ordinances and to the rules and regulations of the board of standards and appeals, applicable to a building of its class and kind, except that in the case of a building heretofore existing and for which no previous certificate of occupancy has been issued and which has not been altered or converted since March 14, 1916, to a use that changed its classification as defined in the building code, this certificate confirms and continues the existing uses to which the building has been put; and

CERTIFIES FURTHER that the building is of **steel** construction within the meaning of the building code and may be used and occupied as a **business** building as hereinafter qualified, in a **unrestricted** district under the building zone resolution, subject to all the privileges, requirements, limitations and conditions prescribed by law or as hereinafter specified.

STORY	LIVE LOADS Lbs. per Sq. Ft.	PERSONS ACCOMMODATED			USE
		MALE	FEMALE	TOTAL	
1st story	150			20	Lunch wagon

This certificate is issued to **Vincent Maneo, Agent**
2547 West 16th St.
Brooklyn, City , for the owner or owners.

The superimposed, uniformly distributed loads, or their equivalent concentrated loads in any story shall not exceed the live loads specified above; 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.

The building or any part thereof shall not be used for any purpose other than that for which it is certified.

Unless specifically stated above, the building or any part thereof, if certified as a public building, shall not be used as a building in which persons are harbored to receive medical, charitable or other care or treatment, such as a hospital, asylum, etc., or in which persons are held or detained under legal restraint, such as a police station, jail, etc.; nor shall it be used as a motion picture theatre as defined in section 30, chapter 3, Code of Ordinances; nor as a theatre or opera house or other building intended to be used for theatrical or operatic purposes, or for public entertainment of any kind, for the accommodation of more than 300 persons.

Unless specifically stated above, the building or any part thereof, if certified as a residence building, shall not be used as a tenement house as defined in the tenement house law; nor shall it be used as any form of residence building having more than 15 sleeping rooms; nor shall it be used as a lodging house within the meaning of Sec. 1305 of the Greater New York Charter.

Unless specifically stated above, the building or any part thereof, if certified as a business building, shall not be used as a garage, motor vehicle repair shop or oil selling station as defined in section 1, chapter 10, Code of Ordinances; nor shall it be used for the generation or compression of acetylene; nor as a factory building as defined in the labor law; nor as a grain elevator; nor as a coal pocket.

Except as otherwise noted above, the building, or any part thereof, if located elsewhere than in an unrestricted district, shall not be used for any of the purposes enumerated in paragraph (a) of section 4 of the building zone resolution; nor for any trade, industry or use that is noxious or offensive by reason of the emission of odor, dust, smoke, gas or noise; nor for any kind of manufacturing not already prohibited, except that, if located in a business district, not more than twenty-five per cent. of the total floor space may be so used, or space equal to the area of the lot in any case.

Except as otherwise noted above, the building, if certified as a garage, may not be used for more than five cars on any portion of a street between two intersecting streets, in which portion there exists an exit from or an entrance to a public school, or in which portion there exists any hospital maintained as a charitable institution; and in no case within a distance of 200 feet from the nearest exit from or entrance to a public school; nor within two hundred feet of any hospital maintained as a charitable institution.

If the building has, at any time previous to the issuance of this certificate, been the subject of an appeal to the board of appeals or of a petition to the board of standards and appeals resulting in modification or variation of law or any lawful requirement, the construction and arrangement of the building as specified in the resolution granting such modification or variation, must be maintained, and all conditions imposed by either board must be observed.

No change or re-arrangement in the structural parts of the building, or affecting the lighting or 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, until an approval of the same has been obtained from the commissioner of buildings.

This certificate supersedes each and every previously issued certificate of occupancy for this building or any part thereof, and each and every such previously issued certificate shall be null and void; and this certificate in turn becomes null and void upon the issuance of any new lawful certificate.

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 or licenses as may be prescribed by law for the uses or purposes for which the building is designed or intended; 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.

This certificate does not authorize the use or operation of any elevator in the building without the special certificate required by section 563 of the building code.

If the building is or is required to be equipped with standpipes or other fire extinguishing or gas shut off appliances, this certificate is not complete until such standpipes or other appliances have been inspected by the fire department (or by the Tenement House Department in the case of a gas shut off in a tenement house) and approved in writing, either in a separate certificate or by endorsement upon this certificate. (Space for such endorsement is provided on page 4 of this certificate.)

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 a tenement house unless also approved by the tenement house commissioner; and it must be replaced by a full certificate as soon as the entire building is completed according to law and ready for occupancy.

The word "class" as used in this certificate refers to the classification of buildings in the building code (section 70).

This certificate is issued in accordance with the provisions of section 411-a of the Greater New York Charter and of section 5 of chapter 5 (Building Code) of the Code of Ordinances of the City of New York.

Examined 


Commissioner of Buildings, Borough of Manhattan. 38
t

Additional copies of this certificate will be loaned, upon written request, to persons having a proprietary interest in the building.

DEPARTMENT OF HOUSING AND BUILDINGS
BOROUGH OF MANHATTAN, CITY OF NEW YORK

No. **43154**
 Date **September 24, 1954**

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. **35938**

To the owner or owners of the building or premises:

THIS CERTIFIES that the ~~new~~ ~~altered~~ ~~existing~~ building—premises located at

489-493 Canal Street

Block **394** Lot **108-110**

, 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 646F of the New York Charter have been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent. **Class 3**

N.B. of Alt. No.— **572-1954**

Construction classification— **nonfireproof**

Occupancy classification— **Commercial Bldg.** . Height **1** stories, **14** feet.

Date of completion— **August 13, 1954** . Located in **Unrestricted** Use District.

A Area **2** . Height Zone at time of issuance of permit **1478-1954**

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	
1st story	on ground				Gasoline service station, lubrication, motor vehicle repair shop, sales of auto accessories and Parking space for more than (5) motor vehicles on vacant part of lot. Gasoline tank installation approved by Fire Department September 17, 1954 Motor vehicle repair shop approved by Fire Department September 17, 1954

Sec. 61.2.3 sub-4 Building Code, C.26-273.0 Adm. Code

Prior to the ... after January

1 1937

...

...

Jacob Drapkin
 ACTING Borough Superintendent

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.

NYC PROPERTY ASSESSMENT INFORMATION

	Statements List	Select a B-B-L	NYC.GOV Home	DEP Home	DOF Home	NYCProperty Home
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The Official New York City Web Site

FINAL ASSESSMENT ROLL 2012-2013 | City of New York

Taxable Status Date: January 5, 2012

EXPLANATION OF ASSESSMENT ROLL

- [View May 25, 2012 - Market Value History](#)
- [View 2011 FINAL ASSESSMENT ROLL](#)
- [View May 25, 2011 - Market Value History](#)
- [View 2011 TENTATIVE ASSESSMENT ROLL](#)
- [View January 15, 2011 - Market Value History](#)
- [View May 25, 2010 - Market Value History](#)
- [View 2010 FINAL ASSESSMENT ROLL](#)
- [View 2010 TENTATIVE ASSESSMENT ROLL](#)
- [View 2009 FINAL ASSESSMENT ROLL](#)
- [View 2008 FINAL ASSESSMENT ROLL](#)
- [View 2007 FINAL ASSESSMENT ROLL](#)
- [View 2006 FINAL ASSESSMENT ROLL](#)

Parcel Information

[«Previous BBL](#) [Next BBL»](#)

Owner Name:

489 CANAL PROPERTIES INC.

Property Address and Zip Code:

219 HUDSON STREET 10013

Real Estate Billing Name and Address:

489 CANAL PROPERTIES INC.

AVIHU GERAFI

1110 WESTWOOD RD

HEWLETT NY 11557

Borough: MANHATTAN

Block: 594

Lot: 108

Tax Class: 4

Building Class: G6Codes

*LICENSED
PARKING LOT*

Land Information

Lot Size	Irregular	Corner
57.25FT X 31.58FT	IRREG	NW

Building Information

Number of Buildings	Building Size	Extension	Stories
1	0.00FT X 16.00FT		1

Assessment Information

Description	Land	Total
ESTIMATED MARKET VALUE		1,054,000
ACTUAL AV	472,500	474,300
ACTUAL EX AV	0	0
TRANS AV	382,860	387,270
TRANS EX AV	0	0

Taxable/Billable Assessed Value**Assessed Value**

SUBJECT TO ADJUSTMENTS, YOUR 2012/13 TAXES WILL BE BASED ON

387,270

Property is assessed at the following uniform percentages of full market value, unless limited to a lesser amount by law:

Class 1 - 6%**Class 2 - 45%****Class 3 - 45%****Class 4 - 45%**

[Statements List](#) | [Select a BBL](#) | [Logon to NYCProperty](#)

Go To: [Finance Home Page](#) | [NYC.gov Home Page](#) | [Contact NYC.gov](#) | [FAQs](#) | [Privacy Statement](#) | [Site Map](#)



NYC Digital Tax Map

Effective Date 10-15-2012 12:44:23

End Date Current

Manhattan Block: 594

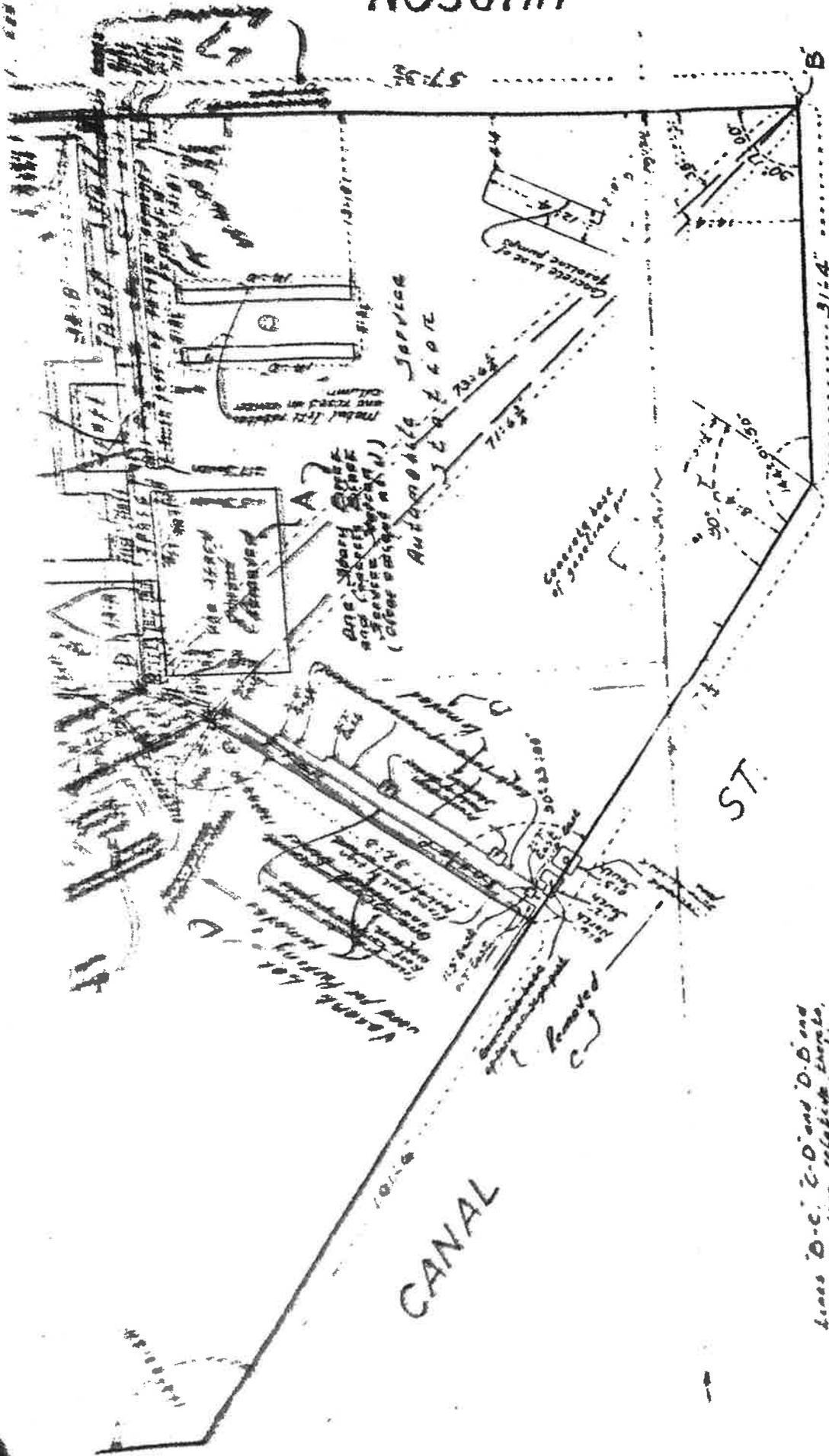
Legend

- Streets
- Miscellaneous Text
- Possession Hooks
- Boundary Lines
- Left Face Possession Hooks
- Regular
- Underwater
- Tax Lot Polygon
- Condo Number
- Tax Block Polygon



SURVEY, DATED 4/1/48

HUDSON



WATTS ST.

ST.

CANAL

Lines D-C, C-D and D-D and
 all information relating thereto
 made 2/1/20. J.S.M.A.

Reference lines, used above have not been arbitrarily assumed.

Surveyed as per possession
 (as per Map 151974)

**LETTER, DATED 7/14/87, FROM
AAR-BEE OIL SERVICE INC**

211 W. STREET
WHIPPLETOWN, N.Y. 11357



NYS DEP. APPROVED
NYCFD APPROVED

AAR-BEE OIL SERVICE INC.

11-55-J

COLLECTORS OF USED OILS • BONDED DRIVERS • TANK PUMP OUT SPECIALISTS

24 HOUR SERVICE
718) 787-1313

7 DAYS A WEEK
RELIABLE SERVICE

July 14, 1987

Harley B. Foods Corp.

487 Canal St. N.Y.C.

This is to certify that Aar-Bee
Oil Service has removed all combustible
materials from 7-550 gal fuel tanks
and purged all fill lines

N.Y.C. D.C. Permit # 2A149

N.Y.C. T.D. Truck Permit # 1086

N.Y.C. T.D. Driver's Certificate of Fitness # 60192176

Disposal Plant EPA # NY D 9806 47283

Facility # 0319

01-8

RECEIPT, DATED 11/30/90, FROM
T.N.C.C.

T.N.C.C.

Concrete & Asphalt Recycling
Roll-Off Container Service

94-05 165th St. Jamaica, NY 11433
(718) 658-7893

SOLD BY		DATE	
		11-30-90	
NAME			
GREAT OUTDOOR			
ADDRESS			
210 SUMMIT AVE MONTVALE			
CASH	C.O.D.	CHARGE	ON ACCT.
			N.J. 07448
3	550 gal	gas	\$330.00
	Tanks	Removed	\$615.00
1	Trucking	Costs	\$550.00
JEFFREY R. GAESS			
RECEIVED BY		201-930-9100	

4701

Thank You

All claims and returned goods MUST be accompanied by this bill.

**VIOLATION ORDER, DATED
9/16/98, FROM CITY OF NEW YORK
FIRE DEPARTMENT**



CROSS STREETS

HUDSON ST
RENWICK ST

CITY OF NEW YORK
FIRE DEPARTMENT
BUREAU OF FIRE PREVENTION
VIOLATION ORDER

A-10(D) (1/91) 72-910143-117-P

BATTALION E024

D.O. 02

D 71550

To 489 CANAL ST NY NY 10013

ADDRESS

498 CANAL PARKING CORP

NAME OF OWNER, LEASEE, OCCUPANT, ETC.

LOT

ROOM NO. OR FLOOR

COMMERCIAL

TYPE OF OCCUPANCY

01229384

ACCOUNT NO

Sir: An inspection this date of the above premises indicates the existence of the following violations under the enforcement jurisdiction of this Department. You are hereby directed to correct such violations by compliance with the following order:

STANDARD ORDER FORM NO	ITEM NO	
SP-1	1	SEAL TANKS IN ACCORDANCE WITH TITLE 3 R.C.N.Y. SECTION 21-02
		SEAL 7 550 GAL GASOLINE TANKS
		COPY OF SECTION 21-02 ATTACHED

If this order has not been complied with in, 30 days of the issuance date, A SUMMONS will be served for violations of the Administrative Code of the City of New York.

TO 25
FOR -NUMBERING

TO 24
FOR DISMISSAL

THOMAS VON ESSEN
Thomas Von Essen
Fire Commissioner

This is to certify that I have made an inspection of said premises and have issued the above order to:

DOMINGO GARCIA EMPLOYEE. 212 633 1864
NAME OF PERSON WHO RECEIVED THIS ORDER TITLE PHONE #
JAMES LEONHARDT 09/16/98 ~~DEPARTMENT OF FIRE~~
INSPECTOR DATE UNIT
BULK FUEL SAFETY

Unit Address ~~9 METRO TECH EAST~~ Unit Telephone (718) 999 2448
9 METRO TECH EAST
BROOKLYN, NY 11201

**LETTER, UNDATED, FROM CITY
OF NEW YORK FIRE
DEPARTMENT**



FIRE DEPARTMENT
9 METROTECH CENTER
BROOKLYN, N.Y. 11201-3857

To Whom it may Concern,

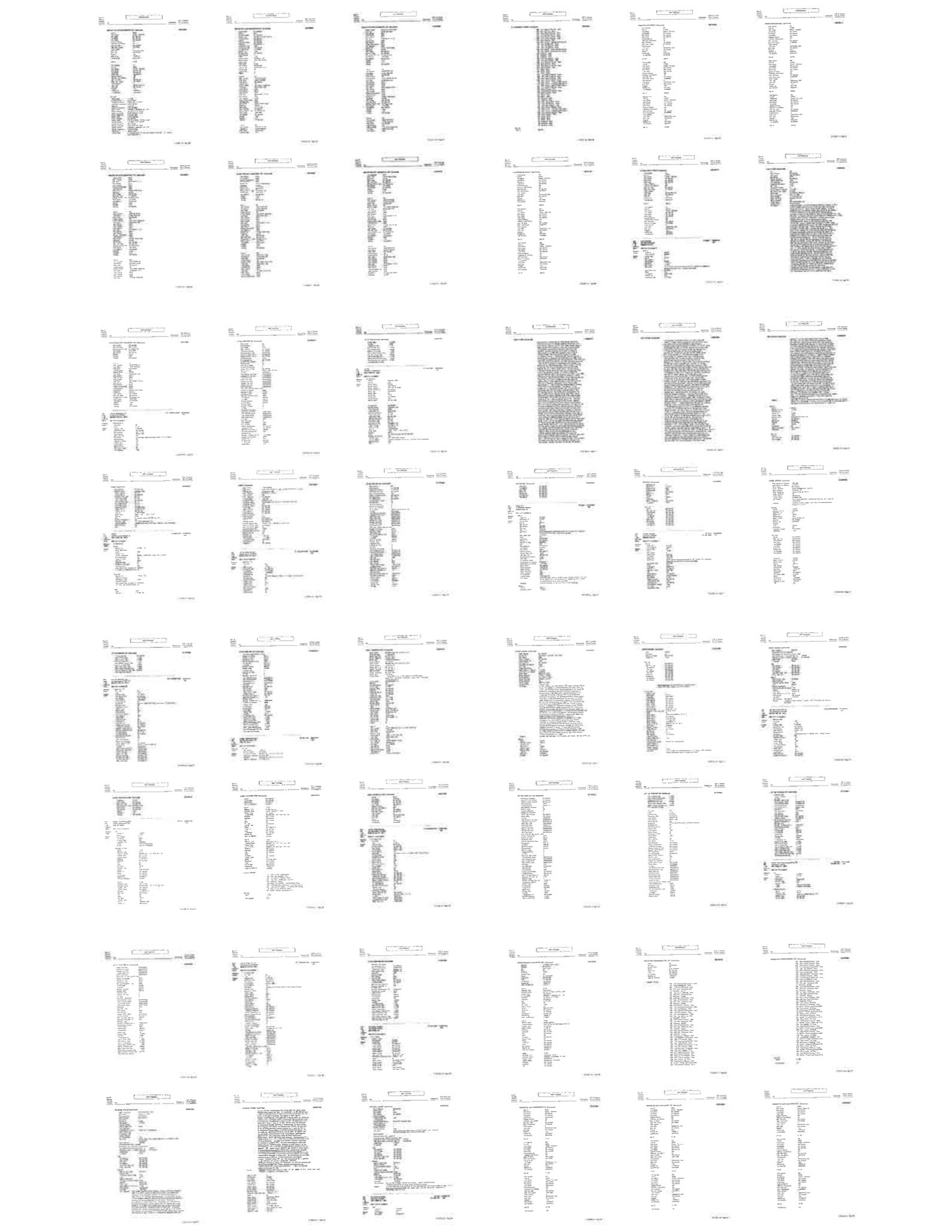
Mr. Samuel Jafari came to my office at 100 Duane St and delivered document pertaining to buried gasoline tanks being removed. I accepted those documents and released Violation Order # D71550. No further action will be taken on our part, all is complied with. If any questions arise please contact me at 570-4230

Respectfully
Carlo Letizio
Carlo Letizio
Associate Fire Protection Insp.

ENVIRONMENTAL DATABASE REPORT









101	102	103	104	105	106	107	108
109	110	111	112	113	114	115	116
117	118	119	120	121	122	123	124
125	126	127	128	129	130	131	132
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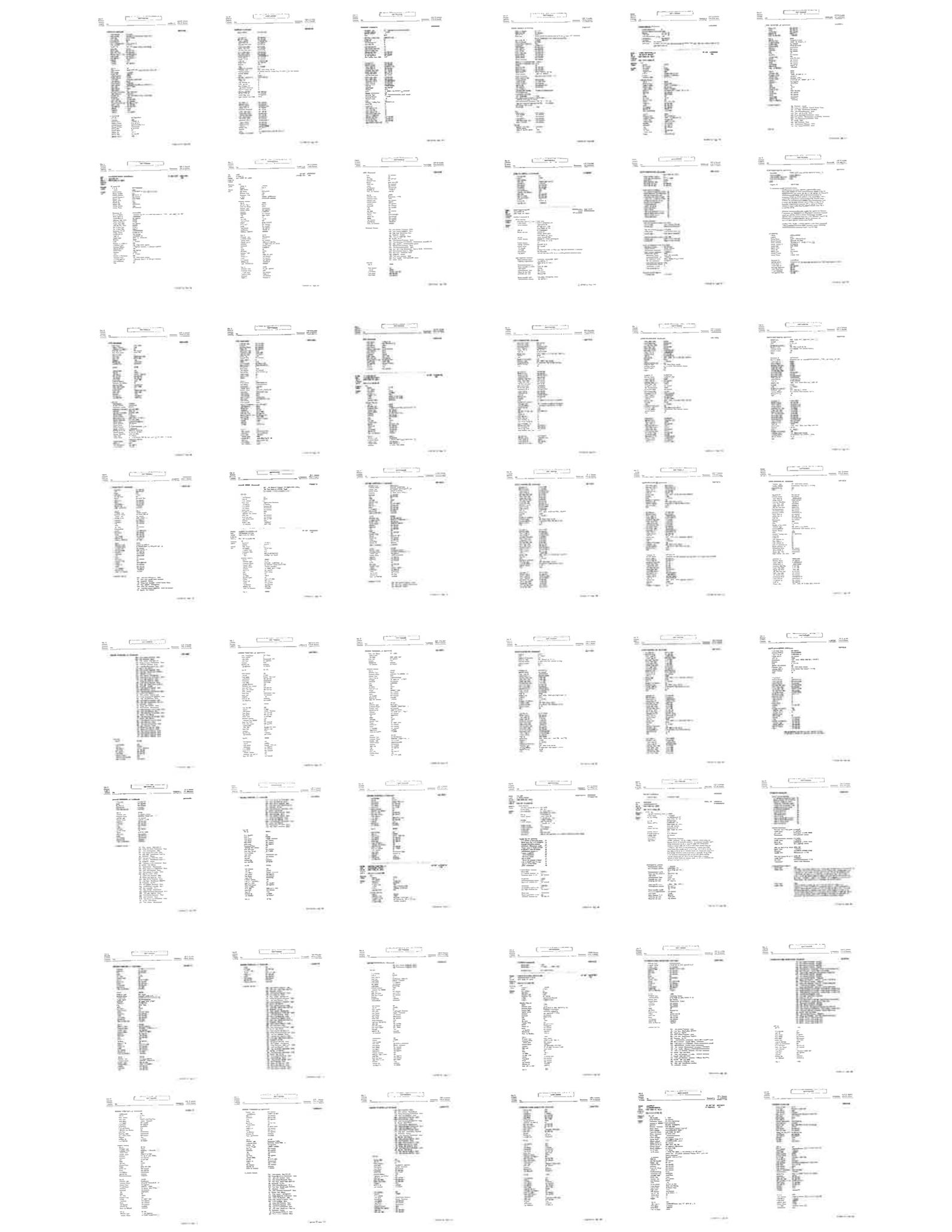












<p>1001</p> <p>1002</p> <p>1003</p> <p>1004</p> <p>1005</p> <p>1006</p> <p>1007</p> <p>1008</p> <p>1009</p> <p>1010</p> <p>1011</p> <p>1012</p> <p>1013</p> <p>1014</p> <p>1015</p> <p>1016</p> <p>1017</p> <p>1018</p> <p>1019</p> <p>1020</p> <p>1021</p> <p>1022</p> <p>1023</p> <p>1024</p> <p>1025</p> <p>1026</p> <p>1027</p> <p>1028</p> <p>1029</p> <p>1030</p> <p>1031</p> <p>1032</p> <p>1033</p> <p>1034</p> <p>1035</p> <p>1036</p> <p>1037</p> <p>1038</p> <p>1039</p> <p>1040</p> <p>1041</p> <p>1042</p> <p>1043</p> <p>1044</p> <p>1045</p> <p>1046</p> <p>1047</p> <p>1048</p> <p>1049</p> <p>1050</p> <p>1051</p> <p>1052</p> <p>1053</p> <p>1054</p> <p>1055</p> <p>1056</p> <p>1057</p> <p>1058</p> <p>1059</p> <p>1060</p> <p>1061</p> <p>1062</p> <p>1063</p> <p>1064</p> <p>1065</p> <p>1066</p> <p>1067</p> <p>1068</p> <p>1069</p> <p>1070</p> <p>1071</p> <p>1072</p> <p>1073</p> <p>1074</p> <p>1075</p> <p>1076</p> <p>1077</p> <p>1078</p> <p>1079</p> <p>1080</p> <p>1081</p> <p>1082</p> <p>1083</p> 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Handwritten text in a cursive script, organized into columns and rows. The text is dense and appears to be a list or index of names and titles, possibly related to a historical or administrative record. The handwriting is consistent throughout, suggesting a single scribe or a well-trained group of scribes. The layout is structured, with clear vertical and horizontal divisions between entries.







APPENDIX C

**SOIL MECHANICS ENVIRONMENTAL SERVICES MARCH 2013
SITE INVESTIGATIVE LETTER REPORT**



SOIL MECHANICS
ENVIRONMENTAL SERVICES

3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK 11783
(516) 221-7500 • FAX (516) 679-1900

March 11, 2013

Mr. Marc Held
c/o Mr. Rafi Gibly
311 Church St., Apt. #2
N.Y., N.Y. 10013

Re: Commercial Property
219 Hudson Street
N.Y., N.Y.
SMES Project #12-703

Gentlemen:

Forwarded herewith are the results of investigative activities recently completed at the above referenced facility (total 4,280 ft²), which is currently vacant and utilized as a parking lot. Investigative efforts, completed in general conformance with our proposal (dated 1/2/13), were conducted for the purpose of assessing adverse impact to the environmental quality of the subject property as a result of a series of on and off-site recognized environmental conditions (RECs), as defined by ASTM E 1527-05, identified during preparation of a Phase I Environmental Site Assessment (ESA) by our office (see our report, dated 1/13).

Identified RECs included: (i) an off-site open status NYSDEC petroleum spill site located hydrodynamically up gradient and in the immediate proximity of the subject property; (ii) historic land usage of the subject property for retail sales of gasoline and motor vehicle repair; and (iii) presence of urban fill material on the subject property. The scope of investigative work to address the identified RECs based on our experience with similar sites, and what, in our opinion, would satisfy the preliminary requirements of the New York City – Office of Environmental Remediation (NYC-OER) for enrollment into their Voluntary Cleanup Program (VCP), i.e., the subject property has been identified in New York City Building Department files as a “E” designated property as a result of historic usage of the site for retail sales of gasoline and motor vehicle repair, included the following:

- a). Geophysical survey of suspect areas, utilizing ground penetrating radar (GPR) equipment, to investigate for the presence of suspect underground structures associated with historic usage of the subject property for retail sales of gasoline and motor vehicle repair, i.e., underground tanks, automobile lifts, drainage structures, etc.

- b). Mobilization/demobilization of truck mounted hollow-stem and direct push sampling equipment to facilitate collection of: (i) soil samples, on a continuous basis, until rock, groundwater, or virgin soils are encountered from six (6) locations based on historic usage of the property and results of the GPR survey; (ii) installation of three (3) 2” diameter PVC groundwater monitoring wells at selected hydrodynamically up and down gradient locations; (iii) installation of three (3) soil-vapor acquisition implants to a depth of approximately 5’bgs.
- c). Organic vapor screening of all recovered soil samples, utilizing a photo ionization detector (PID) and visual/olfactory inspection of same for obvious signs of contamination.
- d). Laboratory analysis of:
 - (i) Two (2) selected soil samples from each soil sampling location for TAL metals and TCL organics, including volatile and semi-volatile organic compounds (VOC and SVOC), pesticides, and PCBs.
 - (ii) Three (3) groundwater samples for TAL metals (filtered and non-filtered) and TCL organics, including VOCs, SVOCs, pesticides, and PCBs.
 - (iii) Three (3) soil-vapor samples for TO-15 and helium.

All samples collected as part this investigation were acquired by qualified SMES personnel, in accordance with appropriate sampling and decontamination protocols. The samples were hand delivered to Long Island Analytical Laboratories Inc. of Holbrook, N.Y. and mailed to Centek Laboratories of Syracuse, N.Y. (both New York State Department of Health ELAP certified), in accordance with appropriate Chain of Custody procedures. The results of laboratory analysis and investigative efforts are detailed below (see Site Plan, Tables #1, 2, 2a, 3, and complete laboratory reports appended).

I Results of GPR Survey

Visual inspection of the subject property during preparation of the Phase I ESA by our office (see report, dated 1/13) revealed the presence of a concrete mat and a series of fill ports indicative of the presence of USTs, which are likely attributable to historic land usage. The concrete mat was identified at the southern portion of the property (beneath a construction trailer) and the fill ports were observed within the city sidewalk outside the northeastern portion of the property.

Further to the aforementioned, the following documentation, reviewed as part of the Phase I ESA, was utilized in defining the scope of the geophysical ground penetration radar (GPR) survey: (i) survey, dated April 1, 1948, which identifies property as "Automobile Service Station" and depicts a one-story brick and concrete block service station building at the northern portion, concrete bases for gasoline pumps at the southern portion, and metal lift (which rotates and rises on center column) at the northeastern portion; (ii) Letter, dated July 14,1987, from AAR-BEE Oil Service Inc. (Whitestone, N.Y.) which certifies that AAR-BEE Oil Service has removed all combustible materials from 7 -550-gallon tanks and cemented all fill lines (no site plan provided); (iii) Receipt, dated November 30, 1990, from T.N.C.C. (Jamaica, N.Y.) which states

that three (3) 550-gallon gas tanks were removed (no site plan provided); (iv) Violation Order, dated September 16, 1998, from City of New York Fire Department Bureau of Fire Prevention regarding the sealing of 7-550-gallon gasoline tanks (no site plan provided); (v) Letter, undated, from City of New York Fire Department which states that Mr. Samuel Jerafi delivered a document to the Fire Department pertaining to buried gasoline tanks being removed. The letter states that the Fire Department accepted those documents and released violation order #071550. The letter further stated that no further action would be taken on part of the Fire Department and all is complied with.

To investigate the presence/absence of the aforementioned existing/suspect/former USTs and automobile lift(s), as well as, any suspect subsurface septic or storm drain leaching structures routinely associated with former gasoline filling/service stations and assist in positioning soil, soil-vapor and, groundwater sampling locations, the GPR survey was conducted of suspect areas on the subject property. The GPR equipment utilized, included a Geophysical Survey Systems, Inc. (GSSI) SIR System -2 (Subsurface Interface Radar) equipped with a 400-Mhz antenna unit. Notably, however, the GPR survey was inconclusive, in that, it did not identify radar signatures indicative of the presence of underground tanks, automobile lift pistons, drainage structures, or suspect anomalies, warranting further investigation, in the areas investigated.

II Summary of Sampling Locations

Based the results of the GPR survey (see Section II above) and the relatively small size of the subject property, sampling locations were selected, as follows:

- a). Soil Sampling Locations (GP-1 through GP-6):
 - (i) GP-1, 2, 6 were positioned to assess soil formations in the vicinity of the concrete tank mat, as well as, the site's urban fill material;
 - (ii) GP-3 and 5 were positioned to assess the site's urban fill material; and
 - (iii) GP-4 was positioned to assess soil formations in the vicinity of the former service station building, as well as, the site's urban fill material.

- b). Soil Vapor Sampling Locations (SV-1 through SV-3):
 - (i) SV-1, 2 were positioned to assess soil vapor in the vicinity of the concrete tank mat, as well as, the site's urban fill material; and
 - (ii) SV-3 was positioned to assess soil vapor in the vicinity of the former service station building, as well as, the site's urban fill material.

- c). Groundwater Sampling Locations (MW-1 through MW-3):
 - (i) GW-3 was positioned at a hydrodynamically up gradient location on the subject property relative to a off- site potential source of contamination, i.e., open status NYSDEC petroleum spill site located in the immediate proximity of the subject property;
 - (ii) GW-1 and 2 were positioned at hydrodynamically down gradient locations on the subject property relative to existing/suspect/former on site and off site potential sources of contamination.

III Results of Laboratory Analysis of Soil Samples - GP-1 through GP-6

- A total of six (6) soil borings were completed at selected locations on the subject property in accordance with standard NYSDEC protocols (see Site Plan). The soil borings were to be completed utilizing direct push sampling equipment. Notably, however, due to the presence of significant underground obstructions soil sample acquisition was completed, utilizing hollow-stem drilling equipment. Soil samples were collected on a continuous basis, utilizing a 2' long split-spoon sampler. Groundwater was not encountered during the installation of the soil borings. Geotechnical borings completed at the subject property in advance of this investigation indicated that groundwater was located at a depth of approximately 7.0' bgs.

Separate aliquots of each soil sample were placed into airtight zip-loc bags for organic vapor screening, visual/olfactory inspection, and classification, utilizing the Unified Soil Classification System (see Site Plan).

- The proposed scope of work for the subject property was to include selection of two (2) discrete soil samples from each sampling location for laboratory analysis based on: (i) visual and olfactory inspection of recovered soil samples for obvious signs of contamination; (ii) organic vapor screening of recovered samples with a PID; and (iii) a proposed site redevelopment depth of approximately 4' bgs, i.e., proposed building will not employ a basement and foundations will be pile supported. Notably, however, due to poor sample recovery only one soil sample was submitted for laboratory analysis from soil sampling locations GP-4, 5, and 6, i.e., significant volumes of brick, concrete, rock fragments, etc. were encountered at these sampling locations (see Table A below).
- Visual and olfactory inspection of recovered soil samples revealed no obvious signs of contamination. Inspection of soils encountered during drilling of the soil test borings confirmed that the subject property is blanketed by urban fill consisting of varying concentrations of gray to brown silty sand, gravel, brick, concrete, rock fragments cinders, etc. to a depth of approximately 6.0' bgs.
- Results of soil sample organic vapor screening activities are present in Table A below.

Table A – Results of Organic Vapor Screening

Sample Depth	GP-1	GP-2	GP-3	GP-4	GP-5	GP-5
S-1 (0.0 - 2.0)	ND*	7.7*	ND*	22.0*	41.8*	NR
S-2 (2.0 - 4.0)	11.1	95.0*	ND	NR	NR	NR
S-3 (4.0 - 6.0)	1515.0*	ND	ND*	NR	NR	403.0*

All concentrations in part/million

ND – Non-Detect

NR – No Recovery

* Sample selected for laboratory analysis

- Results of laboratory analysis of soil samples indicated the following:
- (i) Non-detectable concentrations of volatile organic compound (VOC) constituents in samples GP-2/S-1, GP-2/S-2, GP-3/S-1, GP-3/S-3, GP-4/S-1, GP-6/S-3; detectable concentrations in samples GP-1/S-1, GP-1/S-3, and GP-5/S-1, some of which exceeded their respective unrestricted use soil cleanup objective (UUSCO) as defined by NYSDEC 6NYCRR part 375 and/or soil cleanup objective (SCO) defined by NYSDEC CP-51 (see Table #2). Selected VOC constituents in sample GP-1/S-3 also exceeded their respective restricted use soil cleanup objective - residential (RUSCO-R) as defined by NYSDEC 6NYCRR part 375 (see Table #2).
 - (ii) Non-detectable concentrations of semi-volatile organic compound (SVOC) constituents in sample GP-2/S-2; detectable concentrations in the balance of the samples, some of which exceeded their UUSCO as defined by NYSDEC 6NYCRR part 375 (see Table #2). Selected SVOC constituents in samples GP-1/S-1 and GP-3/S-1 also exceeded their respective RUSCO-R as defined by NYSDEC 6NYCRR part 375 (see Table #2). Elevated laboratory minimum detection limits (MDLs) were reported in selected samples (see Table #2).
 - (iii) Detectable concentrations of selected metal constituents in all samples, some of which exceeded their respective UUSCO as defined by NYSDEC 6NYCRR part 375 (see Table #2). Selected metal constituents in samples GP-2/S-1 (lead), GP-3/S-3 (mercury), GP-4/S-1 (lead and mercury), GP-5/S-1 (lead and mercury), and GP-6/S-3 (cadmium and lead) also exceeded their respective RUSCO-R as defined by NYSDEC 6NYCRR part 375 (see Table #2 and 2a). Samples exceeding their respective RUSCO-R were re-submitted to the testing laboratory for further TCLP analysis to determine whether the detected concentrations were hazardous in nature. The results of supplemental TCLP testing indicated that all sample concentrations were below their respective hazardous waste regulatory level for toxicity characteristic (see Table #2a).
 - (iv) Non-detectable concentrations of pesticides constituents in samples GP-1/S-1, GP-1/S-3, GP-2/S-2, GP-3/S-3, GP-4/S-1, and GP-6/S-3; detectable concentrations in samples GP-2/S-1, GP-3/S-1, and GP-5/S-1, some of which exceeded their respective UUSCO as defined by NYSDEC 6NYCRR part 375 (see Table #2). Pesticide constituents detected in all samples were within their respective RUSCO-R as defined by NYSDEC 6NYCRR part 375 (see Table #2).
 - (v) Non-detectable concentrations of PCBs in all samples (see Table #2).

IV Results of Laboratory Analysis of Groundwater Samples - MW-1 through MW-3

- Groundwater monitoring wells were installed at selected hydrodynamically up and down gradient locations on the subject property relative to on and off-site potential sources of contamination, utilizing hollow-stem drilling equipment (see Site Plan). A total of three (3) monitoring wells were installed, surveyed, developed, monitored, purged, and sampled in accordance with standard NYSDEC protocols. The 2" diameter PVC wells were installed to standard NYSDEC specifications, including placement of 0.020" factory slot screens 5' above and 10' into the groundwater table.
- Groundwater was encountered at elevations ranging between -2.63 at MW-1, 0.03 at MW-2, and -0.17 at MW-3 and indicated a groundwater flow component to the southwest (see Site Plan).
- Results of laboratory analysis of groundwater samples indicated the following:
 - (i) Non-detectable concentrations of VOC constituents in sample MW-3; detectable concentrations in samples MW-1 and MW-2, some of which exceeded their respective standard/criteria defined by NYSDEC 6NYCRR part 703 or TOGS 1.1.1 for Class GA groundwaters (see Table #3).
 - (ii) Non-detectable concentrations of SVOC constituents in sample MW-3; detectable concentrations in samples MW-1 and MW-2, some of which exceeded their respective standard/criteria defined by NYSDEC 6NYCRR part 703 or TOGS 1.1.1 for Class GA groundwaters (see Table #3).
 - (iii) Detectable concentrations of selected metal constituents in all filtered and non-filtered samples, some of which exceeded their respective some of which exceeded their respective standard/criteria defined by NYSDEC 6NYCRR part 703 or TOGS 1.1.1 for Class GA groundwaters (see Table #3).
 - (iv) Non-detectable concentrations of pesticides constituents in all samples (see Table #3).
- Non-detectable concentrations of PCB constituents in all samples (see Table #3).

V Results of Laboratory Analysis of Soil-vapor Samples - SVW-1 through SVW-3

- Three (3) soil vapor probes were installed at selected locations on the subject property (see Site Plan). The soil probes were installed, utilizing direct push sampling equipment, to a depth of approximately 5' bgs, i.e., as there are currently no building(s) on the property, in general conformance with NYSDOH Guidance of Evaluating Soil Vapor Intrusion, dated October 2006.

- To obtain a representative samples that meet data quality objectives, soil vapor samples were collected, as follows: (i) A 6" long double woven stainless steel implant was driven to a depth of approximately 5' below existing grade; (ii) hermetically sealed laboratory grade polyethylene tubing was attached to the implant and the screen section backfilled with rounded" glass beads to 2" above same; (iii) the remaining annular space was backfilled with bentonite/cement grout to grade; (iv) tt the ground surface, the implant was finished with a 5" diameter bolt down manhole cover; (v) to confirm that acquired samples were not diluted by outside air infiltration and ensure the integrity of the implant seal the following Quality Assurance/Quality Control (QA/QC) measures were utilized: (1) a direct read, real time helium detector was connected to the implant tubing; and (2) the atmosphere immediately adjacent to where the implant probe intersects the ground surface was enriched with helium; (vi) each implant was subject to purging of 3 to 4 well volumes, once the integrity of implant installation was confirmed, i.e., minimum of 24 hours after implant installation; (vii) samples were collected utilizing 1 liter Summa canisters certified to be clean by the testing laboratory and equipped with a low flow regulator (not exceeding 0.2 liters per minute); (viii) the sampling duration was minimum two (2) hours; and (ix) weather, temperature and barometric pressure were recorded (see Tables #1).

- Methodologies used for soil vapor assessment conformed to the NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006 indicated detectable concentrations of selected VOC constituent in all samples, some of which, including cyclohexane and methyl isobutyl ketone exceeded their respective NYS DOH background standard (see Table #1).

VI Conclusions

Based on the results of investigative activities and laboratory analysis of soil, soil-vapor, and groundwater samples acquired from selected locations on the subject property, we conclude the following:

Geophysical survey of suspect areas on the subject property did not reveal GPR signatures indicative of the presence of underground tanks, automobile lift pistons, drainage structures, or suspect anomalies warranting further investigation in the areas investigated. Notably, based on currently available information, as many as 7 -550-gallon USTs, which will require removal during site redevelopment, may still be present on the property. The metal lift (which rotates and rises on center column) associated with the former service station building was likely removed during installation of the foundation for the existing billboard on the property. In any case, laboratory analysis of soil and groundwater samples acquired from selected locations on the subject property relative to on-site potential sources of contamination, i.e., the aforementioned USTs, indicate a release of petroleum hydrocarbons into the environment at concentrations that are, in our opinion, likely to represent priority for further investigation and possibly remediation to the NYSDEC Petroleum Spills Division. Further, the detected concentrations of metals, pesticides, VOCs and SVOCs in the site's urban fills, while likely non-hazardous in nature and

generally consistent with fill in urban environments, will, in our opinion, represent a priority for further investigation to the New York City – Division of Environmental Remediation NYC DER) during the process associated with the removal of the New York City Building Department “E” designation for the property. Finally, the site’s urban fill material cannot be classified as “clean” effectively precluding normal handling, transportation, and disposal options or use without restriction.

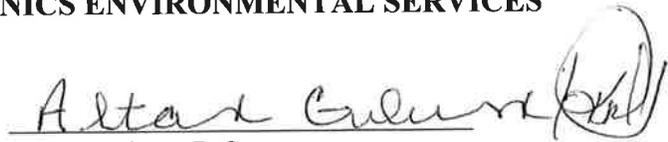
The results of laboratory analysis of groundwater samples indicates, in our opinion, that the environmental quality of the subject property has not been adversely impacted as a result of the hydrodynamically up gradient off-site open status NYSDEC petroleum spill site. The detected marginally elevated concentrations of selected metal constituents identified in all samples assessed, while noteworthy, are not, in our opinion likely to represent priority to a regulatory agency for further investigation or remediation since groundwater in the area of the subject property is not utilized for potable purposes and is documented to be regionally compromised.

Soil vapor samples collected from selected locations on the subject property indicate a wide variety of VOCs, including gasoline constituents benzene, toluene, ethyl benzene, and xylene (BTEX) likely attributable to the presence of these compounds at elevated concentrations in site’s soil and groundwater samples. Notably, however, adverse impacts associated with chlorinated contaminants targeted in NYS DOH Final Guidance on Soil Vapor Intrusion (October 2006) are not indicated. In any case, while soil-vapor beneath the subject property does not appear to have been significantly impacted as a result of historic land usage, it is our opinion, based on the detected concentrations of targeted contaminants and the current regulatory climate that a sub-slab venting system will be required as part of proposed site redevelopment efforts.

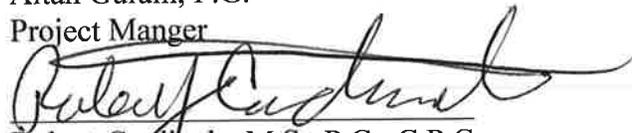
Should you have any questions regarding the contents of this letter, please don’t hesitate to contact our office.

Very truly yours,

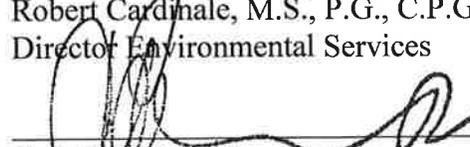
SOIL MECHANICS ENVIRONMENTAL SERVICES



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Site Plan

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Complete Laboratory Reports and Associated Chains of Custody

Head Space Organic Vapor Analysis Summaries

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APPENDIX

Site Plan

Tables

Complete Laboratory Reports and Associated Chains of Custody

Head Space Organic Vapor Analysis Summaries

Monitoring Well Summary

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Table #1
Soil Vapor Analytical Results
EPA Method TO-15

EPA Method TO-15 Perimeters	SVW-1	SVW-2	SVW-3	NYSDOH Background Standards(1) Indoor(2)
1,1,1-Trichloroethane	ND	ND	ND	-
1,1,2,2-Tetrachloroethane	ND	ND	ND	-
1,1,2-Trichloroethane	ND	ND	ND	-
1,1-Dichloroethane	ND	ND	ND	-
1,1-Dichloroethene	ND	ND	ND	-
1,2,4-Trichlorobenzene	ND	ND	ND	-
1,2,4-Trimethylbenzene	1.4	1.7	2.1	0.69 - 4.3
1,2-Dibromoethane	ND	ND	ND	-
1,2-Dichlorobenzene	ND	ND	ND	-
1,2-Dichloroethane	ND	ND	ND	-
1,2-Dichloropropane	ND	ND	ND	-
1,3,5-Trimethylbenzene	ND	ND	0.55	0.27 - 1.7
1,3-butadiene	ND	ND	ND	-
1,3-Dichlorobenzene	ND	ND	ND	-
1,4-Dichlorobenzene	ND	ND	ND	-
1,4-Dioxane	ND	ND	ND	-
2,2,4-trimethylpentane	2.2	1.3	0.57	NS
4-ethyltoluene	0.50	0.50	0.60	NS
Acetone	6.9	36	16	10.0-52.0
Allyl chloride	ND	ND	ND	-
Benzene	5.6	2.1	1.4	1.1-5.9
Benzyl chloride	ND	ND	ND	-
Bromodichloromethane	ND	ND	ND	-
Bromoform	ND	ND	ND	-
Bromomethane	ND	ND	ND	-
Carbon disulfide	0.41	4.3	ND	NS
Carbon tetrachloride	ND	ND	ND	-
Chlorobenzene	ND	ND	ND	-
Chloroethane	ND	ND	ND	-
Chloroform	ND	ND	ND	-
Chloromethane	ND	ND	ND	-
cis-1,2-Dichloroethene	ND	ND	ND	-
cis-1,3-Dichloropropene	ND	ND	ND	-
Cyclohexane	3.3	3.3	1.7	<0.25-2.6
Dibromochloromethane	ND	ND	ND	-
Ethyl acetate	ND	ND	ND	-
Ethyl benzene	0.84	0.88	0.75	0.41-2.8
Freon 11	1.1	1.1	1.1	NS
Freon 113	ND	1.0	ND	NS
Freon 114	ND	ND	ND	NS
Freon 12	2.5	2.6	2.7	NS
Heptane	1.6	2.2	1.4	1.0-7.6
Hexachloro-1,3-butadiene	ND	ND	ND	-
Hexane	2.4	2.6	1.0	0.6-5.9
Isopropyl alcohol	ND	2.0	ND	-
m&p-Xylene	3.0	3.1	2.7	0.5-4.6
Methyl Butyl Ketone	ND	ND	ND	-
Methyl Ethyl Ketone	2.8	3.6	5.2	1.4-7.3
Methyl Isobutyl Ketone	ND	1.4	ND	<0.25-0.9
Methyl tert-butyl ether	ND	ND	ND	-
Methylene chloride	0.56	1.2	0.49	0.3-6.6
o-Xylene	0.84	0.93	0.88	0.4-3.1
Propylene	ND	ND	ND	-
Styrene	ND	ND	ND	-
Tetrachloroethylene	ND	ND	ND	-
Tetrahydrofuran	ND	ND	ND	-
Toluene	4.8	5.4	3.2	3.5-25.0
trans-1,2-Dichloroethene	ND	ND	ND	-
trans-1,3-Dichloropropene	ND	ND	ND	-
Trichloroethene	ND	ND	ND	-
Vinyl acetate	ND	ND	ND	-
Vinyl Bromide	ND	ND	ND	-
Vinyl chloride	ND	ND	ND	-
Helium	ND	ND	ND	-

1 Summary of Indoor and Outdoor Levels of Volatile Organic Compounds From Fuel Oil Heated Homes in NYS, 1997 to 2003. Unpublished. New York State Department of Health, Bureau of Toxic Substance Assessment.

2 The ranges provided in the table represent the 25th percentile to 75th percentile, (middle half), of the results and are labeled as background. A single value is the minimum reporting limit for that compound, and indicates that more than 75% of the data are below the detection limit. This database is comprised of air testing results from homes where there were no known sources of chemicals or chemical spills.

ND - Not Detected at concentration exceeding laboratory reporting limit

NS - No Standard

All reported values are in microgram per cubic meter (mcg/m³)

Bolded/shaded values represent concentration exceeding NYSDOH Background Standards

Sampling date: 1/22/13 (light snow, 27°F, 30.0 inches Hg)

Table #2
Soil Analytical Results
TAL Metals and TCL Organics

Perimeters	GP-1/ S-1	GP-1/ S-3	GP-2/ S-1	GP-2/ S-2	GP-3/ S-1	GP-3/ S-3	GP-4/ S-1***	GP-5/ S-1***	GP-6/S- 3***	UUSCO	RUSCO- R
Sample Depth	0.0'- 2.0'	4.0'- 6.0'	0.0'- 2.0'	2.0'- 4.0'	0.0'- 2.0'	4.0'- 6.0'	0.0'- 2.0'	0.0'- 2.0'	4.0'- 6.0'	-	-
TAL Metals (mg/kg)	-	-	-	-	-	-	-	-	-	-	-
Aluminum	4480	4760	6210	7160	6630	6050	7580	6110	6030	NS	NS
Antimony	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.67	<1.65	-	-
Arsenic	4.13	1.90	2.28	2.01	5.89	4.83	4.06	2.87	2.81	13.0	16.0
Barium	72.1	40.0	150	99.9	182	106	321	250	208	350.0	350.0
Beryllium	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.67	<1.65	-	-
Cadmium	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1.40	3.35	2.5	2.5
Calcium	25900	12800	37500	53900	16900	2250	42200	34200	37000	NS	NS
Chromium +3	8.47	11.1	10.3	11.4	28.7	15.2	15.4	13.9	14.7	30.0	36.0
Cobalt	3.13	3.95	3.29	3.61	8.88	4.56	4.96	4.22	4.40	NS	NS
Copper	27.9	13.2	34.9	10.8	147	42.3	33.2	26.0	21.3	50.0	270.0
Cyanide	<0.12	0.12	<0.12	<0.12	0.24	0.12	<0.12	0.16	0.13	27.0	27.0
Iron	7800	8420	9830	10300	17100	9770	11800	11100	11000	NS	NS
Lead	198	89.6	451	78.9	311	377	1840	588	675	63.0	400.0
Magnesium	2020	4140	8160	19300	4970	2320	10800	5730	7730	NS	NS
Manganese	169	110	762	645	227	344	273	358	449	1600.0	2000.0
Mercury	0.38	0.03	0.13	0.26	0.18	3.40	0.88	0.97	0.59	0.18	0.81
Nickel	8.72	13.0	10.6	10.6	21.2	15.9	14.6	12.7	13.4	30.0	140.0
Potassium	964	1010	969	1490	867	953	1720	1580	1720	NS	NS
Selenium	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.67	<1.65	-	-
Silver	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	<1.67	<1.65	-	-
Sodium	621	144	635	403	504	609	884	953	1280	-	-
Thallium	1.66	<1.65	2.02	3.30	<1.65	<1.65	1.83	2.42	2.21	NS	NS
Vanadium	12.5	19.0	10.6	16.0	22.9	12.4	15.8	15.8	17.5	NS	NS
Zinc	209	47.1	452	79.1	1350	81.4	286	280	400	109.0	2200.0
TCL-Pesticides (ug/kg)	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Heptachlor	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Aldrin	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Heptachlor Epoxide	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
trans-Chlordane	<5.88	<5.56	<5.84	<5.76	6.06	<5.52	<5.91	<6.28	<5.78	NS	NS
cis-Chlordane (alpha)	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
4,4'-DDE	<5.88	<5.56	6.57	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	3.3	1800.0
Endosulfan I	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Dieldrin	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Endrin	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
4,4'-DDD	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Endosulfan II	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
4,4'-DDT	<5.88	<5.56	<5.84	<5.76	30.0	<5.52	<5.91	<6.28	<5.78	3.3	1700.0
Endrin Aldhyde	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Methoxychlor	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Endosulfan Sulfate	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Endrin Ketone	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
Toxaphene	<11	<111	<117	<115	<112	<110	<118	<126	<116	-	-
Chlordane	<16.7	<16.7	<17.5	<17.3	<16.8	<16.6	<17.7	<18.8	<17.3	-	-
alpha-BHC	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	7.18	<5.78	20.0	97.0
gamma-BHC	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
beta-BHC	<5.88	<5.56	<5.84	<5.76	<5.59	<5.52	<5.91	<6.28	<5.78	-	-
TCL-PCBs (ug/kg)	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1268	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
Aroclor-1260	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
Aroclor-1221	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
Aroclor-1232	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
Aroclor-1242	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
Aroclor-1248	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
Aroclor-1016	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
Aroclor-1254	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
Aroclor-1262	<58.8	<55.6	<58.4	<57.6	<55.9	<55.2	<59.1	<62.8	<57.8	-	-
TCL-VOCs (ug/kg)	*	*	-	-	*	-	-	*	-	-	-
Acetone	<11.8	<556	<11.7	<11.5	<11.2	<11.0	<11.8	<251	<11.6	-	-
1,1-Dichloroethylene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Methyl Acetate	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Methylene Chloride	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Carbon disulfide	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Methyl-tert-Butyl Ether	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
trans-1,2-Dichloroethylene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Dichlorodifluoromethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,1-Dichloroethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Methyl Ethyl Ketone (2-Butanone)	<11.8	<556	<11.7	<11.5	<11.2	<11.0	<11.8	<251	<11.6	-	-
cis-1,2-Dichloroethylene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Bromochloromethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Chloroform	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,1,1-Trichloroethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,2-Dichloroethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Carbon Tetrachloride	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-

Table #2 (continued)
Soil Analytical Results
TAL Metals and TCL Organics

Perimeters	GP-1/ S-1	GP-1/ S-3	GP-2/ S-1	GP-2/ S-2	GP-3/ S-1	GP-3/ S-3	GP-4/ S-1***	GP-5/ S-1***	GP-6/ S-3***	UUSCO	RUSCO- R
Sample Depth	0.0'- 2.0'	4.0'- 6.0'	0.0'- 2.0'	2.0'- 4.0'	0.0'- 2.0'	4.0'- 6.0'	0.0'- 2.0'	0.0'- 2.0'	4.0'- 6.0'	-	-
Benzene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Trichloroethylene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,2-Dichloropropane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,4-Dioxane	<5.88	<2780	<58.4	<57.6	<55.9	<55.2	<59.1	<1260	<57.8	-	-
Bromodichloromethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Chloromethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Methyl Isobutyl Ketone	<11.8	<556	<11.7	<11.5	<11.2	<11.0	<11.8	<251	<11.6	-	-
cis-1,3-Dichloropropylene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Toluene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	809	<5.78	700.0	100000.0
trans-1,3-Dichloropropylene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,1,2-Trichloroethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Methyl Butyl Ketone (2-Hexanone)	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Dibromochloromethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Tetrachloroethylene	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Vinyl chloride	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,2-Dibromoethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Chlorobenzene	<29.4	<278	<5.84	<5.76	<28.0	<5.52	<5.91	<126	<5.78	-	-
Ethylbenzene	<29.4	51500	<5.84	<5.76	<28.0	<5.52	<5.91	1110	<5.78	1000.0	30000.0
m,p-Xylenes	<58.8	6500	<11.7	<11.5	<55.9	<11.0	<11.8	6440	<11.6	260.0	100000.0
Styrene	<29.4	<278	<5.84	<5.76	<28.0	<5.52	<5.91	<126	<5.78	-	-
o-Xylene	29.4	394	<5.84	<5.76	<28.0	<5.52	<5.91	3910	<5.78	260.0	100000.0
Bromoform	<29.4	<278	<5.84	<5.76	<28.0	<5.52	<5.91	<126	<5.78	-	-
1,1,2,2-Tetrachloroethane	<29.4	<278	<5.84	<5.76	<28.0	<5.52	<5.91	<126	<5.78	-	-
Bromomethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
Isopropylbenzene (Cumene)	<29.4	19400	<5.84	<5.76	<28.0	<5.52	<5.91	173	<5.78	2000.0**	2000.0**
Chloroethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,3-Dichlorobenzene	<147	<278	<5.84	<5.76	<55.9	<5.52	<5.91	<126	<5.78	-	-
1,4-Dichlorobenzene	<147	<278	<5.84	<5.76	<55.9	<5.52	<5.91	<126	<5.78	-	-
1,2-Dichlorobenzene	<147	<278	<5.84	<5.76	<55.9	<5.52	<5.91	<126	<5.78	-	-
Trichlorofluoromethane	<5.88	<278	<5.84	<5.76	<5.59	<5.52	<5.91	<126	<5.78	-	-
1,2-Dibromo-3-chloropropane	<147	<278	<5.84	<5.76	<55.9	<5.52	<5.91	<126	<5.78	-	-
1,2,4-Trichlorobenzene	<147	<278	<5.84	<5.76	<55.9	<5.52	<5.91	<126	<5.78	-	-
1,2,3-Trichlorobenzene	<147	<278	<5.84	<5.76	<55.9	<5.52	<5.91	<126	<5.78	-	-
TCL-SVOCs (ug/kg)	-	-	-	*	*	-	*	*	-	-	-
1,1-Biphenyl	<141	<133	<140	<1380	<1340	<133	<142	<151	<139	-	-
1,2-Diphenylhydrazine	<77.6	<73.4	<77.1	<761	<739	<72.9	<78.0	<82.8	<76.3	-	-
Atrazine	<77.6	<73.4	<77.1	<761	<739	<72.9	<78.0	<82.8	<76.3	-	-
Benzaldehyde	<77.6	<73.4	<77.1	<761	<739	<72.9	<78.0	<82.8	<76.3	-	-
Acetophenone	<106	<100	<105	<1040	<1010	<99.4	<106	<113	<104	-	-
Caprolactam	<176	<167	<175	<1730	<1680	<166	<177	<188	<173	-	-
2-Methylphenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Bis(2-chloroisopropyl)ether	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Hexachloroethane	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
3/4-Methylphenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
N-Nitroso-di-n-propylamine	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Nitrobenzene	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Isophorone	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
2-Nitrophenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
2,4-Dimethylphenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
bis(2-Chloroethoxy)methane	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
2,4-Dichlorophenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Naphthalene	<47.0	272	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	12000.0	100000.0
4-Chloroaniline	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Hexachlorobutadiene	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
4-Chloro-3-methylphenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
2-Methylnaphthalene	<47.0	449	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	NS	NS
Hexachlorocyclopentadiene	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
2,4,6-Trichlorophenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
2,4,5-Trichlorophenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
2-Chloronaphthalene	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
2-Nitroaniline	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Dimethyl phthalate	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Acenaphthylene	61.1	<44.5	86.5	<461	<448	<44.2	<94.6	<100	<46.2	100000.0	100000.0
2,6-Dinitrotoluene	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
3-Nitroaniline	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Acenaphthene	112	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	20000.0	100000.0
2,4-Dinitrophenol	<159	<150	<158	<1560	<1510	<149	<319	<339	<156	-	-
Dibenzofuran	56.4	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	7000.0	14000.0
4-Nitrophenol	<159	<150	<158	<1560	<1510	<149	<319	<339	<156	-	-
2,4-Dinitrotoluene	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Fluorene	82.3	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	30000.0	100000.0
Diethyl phthalate	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
4-Chlorophenyl phenyl ether	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
4-Nitroaniline	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
4,6-Dinitro-2-methylphenol	<159	<150	<158	<1560	<1510	<149	<319	<339	<156	-	-

Table #2 (continued)
Soil Analytical Results
TAL Metals and TCL Organics

Perimeters	GP-1/ S-1	GP-1/ S-3	GP-2/ S-1	GP-2/ S-2	GP-3/ S-1	GP-3/ S-3	GP-4/ S-1***	GP-5/ S-1***	GP-6/ S-3***	UUSCO	RUSCO-R
Sample Depth	0.0'-2.0'	4.0'-6.0'	0.0'-2.0'	2.0'-4.0'	0.0'-2.0'	4.0'-6.0'	0.0'-2.0'	0.0'-2.0'	4.0'-6.0'	-	-
N-Nitrosodiphenylamine	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
4-Bromophenyl phenyl ether	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Hexachlorobenzene	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Phenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Pentachlorophenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Phenanthrene	1270	112	<46.7	<461	1010	111	<94.6	<100	<46.2	100000.0	100000.0
Anthracene	303	<44.5	58.4	<461	<448	<44.2	<94.6	<100	<46.2	100000.0	100000.0
Carbazole	84.6	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	NS	NS
Di-n-butyl phthalate	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Fluoranthene	1850	<44.5	155	<461	2280	294	153	<100	<46.2	100000.0	100000.0
Pyrene	1610	<44.5	144	<461	1920	241	126	<100	<46.2	100000.0	100000.0
Butyl benzyl phthalate	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Benzo(a)anthracene	782	<44.5	111	<461	1130	109	<94.6	<100	<46.2	1000.0	1000.0
Chrysene	815	<44.5	112	<461	1340	179	136	<100	<46.2	1000.0	1000.0
3,3'-Dichlorobenzidine	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Bis(2-Ethylhexyl)phthalate	<47.0	113	72.5	<461	<448	<44.2	624	248	88.6	NS	NS
Di-n-octyl phthalate	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Benzo(b)fluoranthene	1080	<44.5	239	<461	1720	214	178	152	55.5	1000.0	1000.0
Benzo(k)fluoranthene	396	<44.5	81.0	<461	<448	69.2	<94.6	<100	<46.2	800.0	1000.0
2-Chlorophenol	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-
Benzo(a)pyrene	839	<44.5	214	<461	1300	127	136	115	49.3	1000.0	1000.0
Indeno(1,2,3-cd)pyrene	549	<44.5	372	<461	955	107	118	115	67.8	500.0	500.0
Dibenzo(a,h)anthracene	134	<44.5	67.8	<461	<448	<44.2	<94.6	<100	<46.2	330.0	330.0
Benzo(g,h,i)perylene	629	<44.5	503	<461	888	116	131	139	112	100000.0	100000.0
Bis(2-Chloroethyl)ether	<47.0	<44.5	<46.7	<461	<448	<44.2	<94.6	<100	<46.2	-	-

UUSCO Unrestricted Use Soil Cleanup Objective from NYSDEC 6NYCRR part 375
RUSCO-R Restricted Use Soil Cleanup Objective (Residential) from NYSDEC 6NYCRR part 375
Bold/Shade Detected concentration exceeds UUSCO from NYSDEC 6NYCRR part 375
Bold/Shade/Red Detected concentration exceeds RUSCO-R from NYSDEC 6NYCRR part 375
- Not Applicable
NS No Standard
* Laboratory minimum detection limits raised due to matrix interference
** Soil Cleanup Objective from NYSDEC CP-51
*** Due to poor sample recovery, no supplemental or second sample was submitted for laboratory analysis from this boring locations

Table #2a
Soil Analytical Results
TCLP Selected Metal Constituents

TCLP Metals	GP-2/ S-1		GP-3/ S-3		GP-4/ S-1		GP-5/ S-1		GP-6/ S-3		Hazardous Waste Regulatory Levels for Toxicity Characteristic
	Sample Depth	0.0'-2.0'	4.0'-6.0'		0.0'-2.0'		0.0'-2.0'		4.0'-6.0'		
-	Total (mg/kg)	TCLP (mg/L)	-								
Cadmium	-	-	-	-	-	-	-	-	3.35	0.03	1.0
Lead	451.0	<0.02	-	-	1840.0	0.08	588.0	<0.02	675.0	0.1	5.0
Mercury	-	-	3.40	<0.02	0.88	<0.02	0.97	<0.02	-	-	0.2

- Not Applicable

Table #3
Aqueous Analytical Results
TAL Metals (filtered and non-filtered) and TCL Organics

Perimeters	MW-1		MW-2		MW-3		Groundwater Standard/Criteria
	F	NF	F	NF	F	NF	
TAL Metals (mg/L)							-
Silver	<0.005	<0.05	<0.005	<0.05	<0.005	<0.05	-
Aluminum	3.50	<0.05	2.16	0.10	1.13	0.13	NS
Arsenic	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Barium	0.62	1.44	1.61	<1.00	1.09	1.11	1.0
Beryllium	<0.01	<0.05	<0.01	<0.05	<0.01	<0.05	-
Calcium	454	343	369	441	277	273	NS
Cadmium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Cobalt	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Chromium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Copper	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Iron	11.7	7.35	17.3	3.19	17.3	9.56	0.3
Potassium	58.6	25.2	25.6	42.0	44.5	49.4	NS
Magnesium	174	150	153	178	71.9	78.0	35.0
Manganese	4.53	2.34	2.47	4.60	3.99	4.19	0.3
Sodium	893	489	497	987	554	578	20.0
Nickel	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	-
Lead	0.019	0.04	0.075	0.007	<0.015	<0.005	0.025
Antimony	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Selenium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Thallium	<0.50	<0.05	<0.50	<0.05	<0.50	<0.05	-
Vanadium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Zinc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Mercury	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-
TCL-Pesticides (ug/L)							-
delta-BHC	<2.00		<2.00		<2.00		-
Heptachlor	<2.00		<2.00		<2.00		-
Aldrin	<2.00		<2.00		<2.00		-
Heptachlor Epoxide	<2.00		<2.00		<2.00		-
trans-Chlordane	<2.00		<2.00		<2.00		-
cis-Chlordane	<2.00		<2.00		<2.00		-
4,4'-DDE	<2.00		<2.00		<2.00		-
Endosulfan I	<2.00		<2.00		<2.00		-
Dieldrin	<2.00		<2.00		<2.00		-
Endrin	<2.00		<2.00		<2.00		-
4,4'-DDD	<2.00		<2.00		<2.00		-
Endosulfan II	<2.00		<2.00		<2.00		-
4,4'-DDT	<2.00		<2.00		<2.00		-
Endrin Aldehyde	<2.00		<2.00		<2.00		-
Methoxychlor	<2.00		<2.00		<2.00		-
Endosulfan Sulfate	<2.00		<2.00		<2.00		-
Endrin Ketone	<2.00		<2.00		<2.00		-
Toxaphene	<2.00		<2.00		<2.00		-
Chlordane	<2.00		<2.00		<2.00		-
alpha-BHC	<2.00		<2.00		<2.00		-
gamma-BHC	<2.00		<2.00		<2.00		-
beta-BHC	<2.00		<2.00		<2.00		-
TCL-PCBs (ug/L)							-
Aroclor-1260	<0.500		<0.500		<0.500		-
Aroclor-1254	<0.500		<0.500		<0.500		-
Aroclor-1242	<0.500		<0.500		<0.500		-
Aroclor-1248	<0.500		<0.500		<0.500		-
Aroclor-1221	<0.500		<0.500		<0.500		-
Aroclor-1016	<0.500		<0.500		<0.500		-
Aroclor-1232	<0.500		<0.500		<0.500		-
TCL-VOCs (ug/L)							-
Acetone	66.4		<10.0		<10.0		50.0
1,1-Dichloroethylene	<25.0		<5.00		<5.00		-
1,1,2-Trichloro-1,2,2-trifluoroethane	<25.0		<5.00		<5.00		-
Methyl Acetate	<25.0		<5.00		<5.00		-
1,1,1-Trichloroethane	<25.0		<5.00		<5.00		-
Methylene Chloride	<25.0		<5.00		<5.00		-
Carbon disulfide	<25.0		<5.00		<5.00		-
Methyl-tert-Butyl Ether	<25.0		<5.00		<5.00		-
Dichlorodifluoromethane	<25.0		<5.00		<5.00		-
trans-1,2-Dichloroethylene	<25.0		<5.00		<5.00		-
1,1-Dichloroethane	<25.0		<5.00		<5.00		-
Methyl Ethyl Ketone (2-Butanone)	<25.0		<5.00		<5.00		-
cis-1,2-Dichloroethylene	<25.0		<5.00		<5.00		-
Bromochloromethane	<25.0		<5.00		<5.00		-
Chloroform	<25.0		<5.00		<5.00		-
1,2-Dichloroethane	<25.0		<5.00		<5.00		-
Carbon Tetrachloride	<25.0		<5.00		<5.00		-
Benzene	88.5		4.74		<0.700		1.0
Trichloroethylene	<25.0		<5.00		<5.00		-
1,2-Dichloropropane	<25.0		<5.00		<5.00		-
Bromodichloromethane	<25.0		<5.00		<5.00		-
Chloromethane	<25.0		<5.00		<5.00		-
Methyl Isobutyl Ketone	<25.0		<5.00		<5.00		-
cis-1,3-Dichloropropylene	<25.0		<5.00		<5.00		-
Toluene	<25.0		<5.00		<5.00		-

Table #3 (continued)
Aqueous Analytical Results
TAL Metals (filtered and non-filtered) and TCL Organics

Perimeters	MW-1	MW-2	MW-3	Groundwater Standard/Criteria
trans-1,3-Dichloropropylene	<25.0	<5.00	<5.00	-
1,1,2-Trichloroethane	<25.0	<5.00	<5.00	-
Methyl Butyl Ketone (2-Hexanone)	<25.0	<5.00	<5.00	-
Dibromochloromethane	<25.0	<5.00	<5.00	-
Tetrachloroethylene	<25.0	<5.00	<5.00	-
Vinyl chloride	<25.0	<5.00	<5.00	-
1,2-Dibromoethane	<25.0	<5.00	<5.00	-
Chlorobenzene	<25.0	<5.00	<5.00	5.0
Ethylbenzene	73.6	<5.00	<5.00	-
m,p-Xylenes	<50.0	<10.0	<10.0	-
Styrene	<25.0	<5.00	<5.00	-
o-Xylene	<25.0	<5.00	<5.00	-
Bromoform	<25.0	<5.00	<5.00	-
1,1,2,2-Tetrachloroethane	<25.0	<5.00	<5.00	-
Bromomethane	<25.0	<5.00	<5.00	5.0
Isopropylbenzene (Cumene)	141	<5.00	<5.00	-
Chloroethane	<25.0	<5.00	<5.00	-
1,3-Dichlorobenzene	<25.0	<5.00	<5.00	-
1,4-Dichlorobenzene	<25.0	<5.00	<5.00	-
1,2-Dichlorobenzene	<25.0	<5.00	<5.00	-
Trichlorofluoromethane	<25.0	<5.00	<5.00	-
1,2-Dibromo-3-chloropropane	<25.0	<5.00	<5.00	-
1,2,4-Trichlorobenzene	<25.0	<5.00	<5.00	-
1,2,3-Trichlorobenzene	<25.0	<5.00	<5.00	-
TCL-SVOCs (ug/L)	-	-	-	-
1,1-Biphenyl	<2.00	<2.00	<2.00	-
1,2-Diphenylhydrazine	<2.00	<2.00	<2.00	-
Atrazine	<2.00	<2.00	<2.00	-
Benzaldehyde	<2.00	<2.00	<2.00	-
Acetophenone	<2.00	<2.00	<2.00	-
Caprolactam	<5.00	<5.00	<5.00	-
2-Methylphenol	<5.00	<5.00	<5.00	-
Bis(2-chloroisopropyl)ether	<5.00	<5.00	<5.00	-
Hexachloroethane	<5.00	<5.00	<5.00	-
3/4-Methylphenol	<5.00	<5.00	<5.00	-
N-Nitroso-di-n-propylamine	<5.00	<5.00	<5.00	-
Nitrobenzene	<5.00	<5.00	<5.00	-
Isophorone	<5.00	<5.00	<5.00	-
2-Nitrophenol	<5.00	<5.00	<5.00	-
2,4-Dimethylphenol	<5.00	<5.00	<5.00	-
bis(2-Chloroethoxy)methane	<5.00	<5.00	<5.00	-
2,4-Dichlorophenol	836	16.5	<5.00	10.0
Naphthalene	<5.00	<5.00	<5.00	-
4-Chloroaniline	<5.00	<5.00	<5.00	-
Hexachlorobutadiene	<5.00	<5.00	<5.00	-
4-Chloro-3-methylphenol	<5.00	<5.00	<5.00	NS
2-Methylnaphthalene	876	15.4	<5.00	-
Hexachlorocyclopentadiene	<5.00	<5.00	<5.00	-
2,4,6-Trichlorophenol	<5.00	<5.00	<5.00	-
2,4,5-Trichlorophenol	<5.00	<5.00	<5.00	-
2-Chloronaphthalene	<5.00	<5.00	<5.00	-
2-Nitroaniline	<5.00	<5.00	<5.00	-
Dimethyl phthalate	<5.00	<5.00	<5.00	-
Acenaphthylene	<5.00	<5.00	<5.00	-
2,6-Dinitrotoluene	<5.00	<5.00	<5.00	-
3-Nitroaniline	<5.00	<5.00	<5.00	20.0
Acenaphthene	7.44	<5.00	<5.00	-
2,4-Dinitrophenol	<5.00	<5.00	<5.00	-
Dibenzofuran	<5.00	<5.00	<5.00	-
4-Nitrophenol	<5.00	<5.00	<5.00	-
2,4-Dinitrotoluene	<5.00	<5.00	<5.00	50.0
Fluorene	8.72	<5.00	<5.00	-
Diethyl phthalate	<5.00	<5.00	<5.00	-
4-Chlorophenyl phenyl ether	<5.00	<5.00	<5.00	-
4-Nitroaniline	<5.00	<5.00	<5.00	-
4,6-Dinitro-2-methylphenol	<5.00	<5.00	<5.00	-
N-Nitrosodiphenylamine	<5.00	<5.00	<5.00	-
4-Bromophenyl phenyl ether	<5.00	<5.00	<5.00	-
Hexachlorobenzene	<5.00	<5.00	<5.00	-
Phenol	<5.00	<5.00	<5.00	-
Pentachlorophenol	<5.00	<5.00	<5.00	50.0
Phenanthrene	21.6	<5.00	<5.00	-
Anthracene	<5.00	<5.00	<5.00	-
Carbazole	<5.00	<5.00	<5.00	-
Di-n-butyl phthalate	<5.00	<5.00	<5.00	50.0
Fluoranthene	9.56	<5.00	<5.00	50.0
Pyrene	10.6	<5.00	<5.00	-
Butyl benzyl phthalate	<5.00	<5.00	<5.00	-
Benzo(a)anthracene	<5.00	<5.00	<5.00	-
Chrysene	<5.00	<5.00	<5.00	-
3,3'-Dichlorobenzidine	<5.00	<5.00	<5.00	-

Table #3 (continued)
Aqueous Analytical Results
TAL Metals (filtered and non-filtered) and TCL Organics

Perimeters	MW-1	MW-2	MW-3	Groundwater Standard/Criteria
Bis(2-Ethylhexyl)phthalate	<5.00	<5.00	<5.00	-
Di-n-octyl phthalate	<5.00	<5.00	<5.00	-
Benzo(b)fluoranthene	<5.00	<5.00	<5.00	-
Benzo(k)fluoranthene	<5.00	<5.00	<5.00	-
2-Chlorophenol	<5.00	<5.00	<5.00	-
Benzo(a)pyrene	<5.00	<5.00	<5.00	-
Indeno(1,2,3-cd)pyrene	<5.00	<5.00	<5.00	-
Dibenzo(a,h)anthracene	<5.00	<5.00	<5.00	-
Benzo(g,h,i)perylene	<5.00	<5.00	<5.00	-
Bis(2-Chloroethyl)ether	<5.00	<5.00	<5.00	-

F Filtered
 NF Non-Filtered
 - Not Applicable
 Standard/Criteria NYSDEC 6NYCRR part 703 or NYSDEC TOG 1.1.1

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315-431-9730

Date: 25-Jan-13

Centek Laboratories, LLC

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-001A

Client Sample ID: SVW-1
Tag Number: 192.57
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	1/23/2013 11:09:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/23/2013 11:09:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/23/2013 11:09:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/23/2013 11:09:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/23/2013 11:09:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/23/2013 11:09:00 PM
1,2,4-Trimethylbenzene	1.4	0.75		ug/m3	1	1/23/2013 11:09:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/23/2013 11:09:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/23/2013 11:09:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/23/2013 11:09:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/23/2013 11:09:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/23/2013 11:09:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/23/2013 11:09:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/23/2013 11:09:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/23/2013 11:09:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/23/2013 11:09:00 PM
2,2,4-trimethylpentane	2.2	0.71		ug/m3	1	1/23/2013 11:09:00 PM
4-ethyltoluene	0.50	0.75	J	ug/m3	1	1/23/2013 11:09:00 PM
Acetone	6.9	0.72		ug/m3	1	1/23/2013 11:09:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/23/2013 11:09:00 PM
Benzene	5.6	0.49		ug/m3	1	1/23/2013 11:09:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/23/2013 11:09:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/23/2013 11:09:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/23/2013 11:09:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/23/2013 11:09:00 PM
Carbon disulfide	0.41	0.47	J	ug/m3	1	1/23/2013 11:09:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/23/2013 11:09:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/23/2013 11:09:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/23/2013 11:09:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	1/23/2013 11:09:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/23/2013 11:09:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/23/2013 11:09:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/23/2013 11:09:00 PM
Cyclohexane	3.3	0.52		ug/m3	1	1/23/2013 11:09:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/23/2013 11:09:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/23/2013 11:09:00 PM
Ethylbenzene	0.84	0.66		ug/m3	1	1/23/2013 11:09:00 PM
Freon 11	1.1	0.86		ug/m3	1	1/23/2013 11:09:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	1/23/2013 11:09:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/23/2013 11:09:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-001A

Client Sample ID: SVW-1
Tag Number: 192.57
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15			TO-15		Analyst: RJP	
Freon 12	2.5	0.75		ug/m3	1	1/23/2013 11:09:00 PM
Heptane	1.6	0.62		ug/m3	1	1/23/2013 11:09:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/23/2013 11:09:00 PM
Hexane	2.4	0.54		ug/m3	1	1/23/2013 11:09:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/23/2013 11:09:00 PM
m&p-Xylene	3.0	1.3		ug/m3	1	1/23/2013 11:09:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/23/2013 11:09:00 PM
Methyl Ethyl Ketone	2.8	0.90		ug/m3	1	1/23/2013 11:09:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/23/2013 11:09:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/23/2013 11:09:00 PM
Methylene chloride	0.56	0.53		ug/m3	1	1/23/2013 11:09:00 PM
o-Xylene	0.84	0.66		ug/m3	1	1/23/2013 11:09:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/23/2013 11:09:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/23/2013 11:09:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/23/2013 11:09:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	1/23/2013 11:09:00 PM
Toluene	4.8	0.57		ug/m3	1	1/23/2013 11:09:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/23/2013 11:09:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/23/2013 11:09:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	1/23/2013 11:09:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/23/2013 11:09:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/23/2013 11:09:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/23/2013 11:09:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-002A

Client Sample ID: SVW-2
Tag Number: 170.127
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	1/23/2013 11:44:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/23/2013 11:44:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/23/2013 11:44:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/23/2013 11:44:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/23/2013 11:44:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/23/2013 11:44:00 PM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	1/23/2013 11:44:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/23/2013 11:44:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/23/2013 11:44:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/23/2013 11:44:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/23/2013 11:44:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/23/2013 11:44:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/23/2013 11:44:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/23/2013 11:44:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/23/2013 11:44:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/23/2013 11:44:00 PM
2,2,4-trimethylpentane	1.3	0.71		ug/m3	1	1/23/2013 11:44:00 PM
4-ethyltoluene	0.50	0.75	J	ug/m3	1	1/23/2013 11:44:00 PM
Acetone	36	7.2		ug/m3	10	1/24/2013 3:10:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/23/2013 11:44:00 PM
Benzene	2.1	0.49		ug/m3	1	1/23/2013 11:44:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/23/2013 11:44:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/23/2013 11:44:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/23/2013 11:44:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/23/2013 11:44:00 PM
Carbon disulfide	4.3	0.47		ug/m3	1	1/23/2013 11:44:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/23/2013 11:44:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/23/2013 11:44:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/23/2013 11:44:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	1/23/2013 11:44:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/23/2013 11:44:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/23/2013 11:44:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/23/2013 11:44:00 PM
Cyclohexane	3.3	0.52		ug/m3	1	1/23/2013 11:44:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/23/2013 11:44:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/23/2013 11:44:00 PM
Ethylbenzene	0.88	0.66		ug/m3	1	1/23/2013 11:44:00 PM
Freon 11	1.1	0.86		ug/m3	1	1/23/2013 11:44:00 PM
Freon 113	1.0	1.2	J	ug/m3	1	1/23/2013 11:44:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/23/2013 11:44:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-002A

Client Sample ID: SVW-2
Tag Number: 170.127
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.6	0.75		ug/m3	1	1/23/2013 11:44:00 PM
Heptane	2.2	0.62		ug/m3	1	1/23/2013 11:44:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/23/2013 11:44:00 PM
Hexane	2.6	0.54		ug/m3	1	1/23/2013 11:44:00 PM
Isopropyl alcohol	2.0	0.37		ug/m3	1	1/23/2013 11:44:00 PM
m&p-Xylene	3.1	1.3		ug/m3	1	1/23/2013 11:44:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/23/2013 11:44:00 PM
Methyl Ethyl Ketone	3.6	0.90		ug/m3	1	1/23/2013 11:44:00 PM
Methyl Isobutyl Ketone	1.4	1.2		ug/m3	1	1/23/2013 11:44:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/23/2013 11:44:00 PM
Methylene chloride	1.2	0.53		ug/m3	1	1/23/2013 11:44:00 PM
o-Xylene	0.93	0.66		ug/m3	1	1/23/2013 11:44:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/23/2013 11:44:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/23/2013 11:44:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/23/2013 11:44:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	1/23/2013 11:44:00 PM
Toluene	5.4	0.57		ug/m3	1	1/23/2013 11:44:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/23/2013 11:44:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/23/2013 11:44:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	1/23/2013 11:44:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/23/2013 11:44:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/23/2013 11:44:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/23/2013 11:44:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-003A

Client Sample ID: SVW-3
Tag Number: 234.263
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	1/24/2013 12:18:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/24/2013 12:18:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/24/2013 12:18:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/24/2013 12:18:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/24/2013 12:18:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/24/2013 12:18:00 AM
1,2,4-Trimethylbenzene	2.1	0.75		ug/m3	1	1/24/2013 12:18:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/24/2013 12:18:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/24/2013 12:18:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/24/2013 12:18:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/24/2013 12:18:00 AM
1,3,5-Trimethylbenzene	0.55	0.75	J	ug/m3	1	1/24/2013 12:18:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/24/2013 12:18:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/24/2013 12:18:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/24/2013 12:18:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/24/2013 12:18:00 AM
2,2,4-trimethylpentane	0.57	0.71	J	ug/m3	1	1/24/2013 12:18:00 AM
4-ethyltoluene	0.60	0.75	J	ug/m3	1	1/24/2013 12:18:00 AM
Acetone	16	7.2		ug/m3	10	1/24/2013 4:18:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/24/2013 12:18:00 AM
Benzene	1.4	0.49		ug/m3	1	1/24/2013 12:18:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/24/2013 12:18:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/24/2013 12:18:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	1/24/2013 12:18:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	1/24/2013 12:18:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/24/2013 12:18:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/24/2013 12:18:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/24/2013 12:18:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	1/24/2013 12:18:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	1/24/2013 12:18:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	1/24/2013 12:18:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/24/2013 12:18:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/24/2013 12:18:00 AM
Cyclohexane	1.7	0.52		ug/m3	1	1/24/2013 12:18:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/24/2013 12:18:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/24/2013 12:18:00 AM
Ethylbenzene	0.75	0.66		ug/m3	1	1/24/2013 12:18:00 AM
Freon 11	1.1	0.86		ug/m3	1	1/24/2013 12:18:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	1/24/2013 12:18:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	1/24/2013 12:18:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-003A

Client Sample ID: SVW-3
Tag Number: 234.263
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.7	0.75		ug/m3	1	1/24/2013 12:18:00 AM
Heptane	1.4	0.62		ug/m3	1	1/24/2013 12:18:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/24/2013 12:18:00 AM
Hexane	1.0	0.54		ug/m3	1	1/24/2013 12:18:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/24/2013 12:18:00 AM
m&p-Xylene	2.7	1.3		ug/m3	1	1/24/2013 12:18:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/24/2013 12:18:00 AM
Methyl Ethyl Ketone	5.2	0.90		ug/m3	1	1/24/2013 12:18:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/24/2013 12:18:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/24/2013 12:18:00 AM
Methylene chloride	0.49	0.53	J	ug/m3	1	1/24/2013 12:18:00 AM
o-Xylene	0.88	0.66		ug/m3	1	1/24/2013 12:18:00 AM
Propylene	< 0.26	0.26		ug/m3	1	1/24/2013 12:18:00 AM
Styrene	< 0.65	0.65		ug/m3	1	1/24/2013 12:18:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/24/2013 12:18:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	1/24/2013 12:18:00 AM
Toluene	3.2	0.57		ug/m3	1	1/24/2013 12:18:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/24/2013 12:18:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/24/2013 12:18:00 AM
Trichloroethene	< 0.82	0.82		ug/m3	1	1/24/2013 12:18:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/24/2013 12:18:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/24/2013 12:18:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/24/2013 12:18:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT:	Soil Mechanics Environmental Services	Client Sample ID:	SVW-1
Lab Order:	C1301048	Tag Number:	192.57
Project:	Manhattan 219 Hudson St	Collection Date:	1/22/2013
Lab ID:	C1301048-001A	Matrix:	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-5			"Hg		1/23/2013
Lab Vacuum Out	-30			"Hg		1/23/2013
HELIUM LEAK TEST						
			GC			Analyst: RJP
Helium	ND	0.75		%	1	1/25/2013
1UG/M3 BY METHOD TO15						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,2,4-Trimethylbenzene	0.28	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/23/2013 11:09:00 PM
2,2,4-trimethylpentane	0.47	0.15		ppbV	1	1/23/2013 11:09:00 PM
4-ethyltoluene	0.10	0.15	J	ppbV	1	1/23/2013 11:09:00 PM
Acetone	2.8	0.30		ppbV	1	1/23/2013 11:09:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Benzene	1.7	0.15		ppbV	1	1/23/2013 11:09:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Carbon disulfide	0.13	0.15	J	ppbV	1	1/23/2013 11:09:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Cyclohexane	0.93	0.15		ppbV	1	1/23/2013 11:09:00 PM

Qualifiers:	** Reporting Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-001A

Client Sample ID: SVW-1
Tag Number: 192.57
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/23/2013 11:09:00 PM
Ethylbenzene	0.19	0.15		ppbV	1	1/23/2013 11:09:00 PM
Freon 11	0.20	0.15		ppbV	1	1/23/2013 11:09:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Freon 12	0.49	0.15		ppbV	1	1/23/2013 11:09:00 PM
Heptane	0.38	0.15		ppbV	1	1/23/2013 11:09:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Hexane	0.66	0.15		ppbV	1	1/23/2013 11:09:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
m&p-Xylene	0.67	0.30		ppbV	1	1/23/2013 11:09:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/23/2013 11:09:00 PM
Methyl Ethyl Ketone	0.94	0.30		ppbV	1	1/23/2013 11:09:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/23/2013 11:09:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Methylene chloride	0.16	0.15		ppbV	1	1/23/2013 11:09:00 PM
o-Xylene	0.19	0.15		ppbV	1	1/23/2013 11:09:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Toluene	1.3	0.15		ppbV	1	1/23/2013 11:09:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	1/23/2013 11:09:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-002A

Client Sample ID: SVW-2
Tag Number: 170.127
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-5			"Hg		1/23/2013
Lab Vacuum Out	-30			"Hg		1/23/2013
HELIUM LEAK TEST						
			GC			Analyst: RJP
Helium	ND	0.75		%	1	1/25/2013
1UG/M3 BY METHOD TO15						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,2,4-Trimethylbenzene	0.35	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/23/2013 11:44:00 PM
2,2,4-trimethylpentane	0.28	0.15		ppbV	1	1/23/2013 11:44:00 PM
4-ethyltoluene	0.10	0.15	J	ppbV	1	1/23/2013 11:44:00 PM
Acetone	15	3.0		ppbV	10	1/24/2013 3:10:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Benzene	0.64	0.15		ppbV	1	1/23/2013 11:44:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Carbon disulfide	1.4	0.15		ppbV	1	1/23/2013 11:44:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Cyclohexane	0.93	0.15		ppbV	1	1/23/2013 11:44:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-002A

Client Sample ID: SVW-2
Tag Number: 170.127
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/23/2013 11:44:00 PM
Ethylbenzene	0.20	0.15		ppbV	1	1/23/2013 11:44:00 PM
Freon 11	0.20	0.15		ppbV	1	1/23/2013 11:44:00 PM
Freon 113	0.13	0.15	J	ppbV	1	1/23/2013 11:44:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Freon 12	0.52	0.15		ppbV	1	1/23/2013 11:44:00 PM
Heptane	0.54	0.15		ppbV	1	1/23/2013 11:44:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Hexane	0.72	0.15		ppbV	1	1/23/2013 11:44:00 PM
Isopropyl alcohol	0.79	0.15		ppbV	1	1/23/2013 11:44:00 PM
m&p-Xylene	0.71	0.30		ppbV	1	1/23/2013 11:44:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/23/2013 11:44:00 PM
Methyl Ethyl Ketone	1.2	0.30		ppbV	1	1/23/2013 11:44:00 PM
Methyl Isobutyl Ketone	0.34	0.30		ppbV	1	1/23/2013 11:44:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Methylene chloride	0.33	0.15		ppbV	1	1/23/2013 11:44:00 PM
o-Xylene	0.21	0.15		ppbV	1	1/23/2013 11:44:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Toluene	1.4	0.15		ppbV	1	1/23/2013 11:44:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Surr: Bromofluorobenzene	86.0	70-130		%REC	1	1/23/2013 11:44:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-003A

Client Sample ID: SVW-3
Tag Number: 234.263
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-5			"Hg		1/23/2013
Lab Vacuum Out	-30			"Hg		1/23/2013
HELIUM LEAK TEST						
			GC			Analyst: RJP
Helium	ND	0.75		%	1	1/25/2013
1UG/M3 BY METHOD TO15						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,2,4-Trimethylbenzene	0.42	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,3,5-Trimethylbenzene	0.11	0.15	J	ppbV	1	1/24/2013 12:18:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/24/2013 12:18:00 AM
2,2,4-trimethylpentane	0.12	0.15	J	ppbV	1	1/24/2013 12:18:00 AM
4-ethyltoluene	0.12	0.15	J	ppbV	1	1/24/2013 12:18:00 AM
Acetone	6.6	3.0		ppbV	10	1/24/2013 4:18:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Benzene	0.42	0.15		ppbV	1	1/24/2013 12:18:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Bromoform	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Chloroform	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Cyclohexane	0.50	0.15		ppbV	1	1/24/2013 12:18:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 * Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-003A

Client Sample ID: SVW-3
Tag Number: 234.263
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/24/2013 12:18:00 AM
Ethylbenzene	0.17	0.15		ppbV	1	1/24/2013 12:18:00 AM
Freon 11	0.19	0.15		ppbV	1	1/24/2013 12:18:00 AM
Freon 113	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Freon 114	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Freon 12	0.54	0.15		ppbV	1	1/24/2013 12:18:00 AM
Heptane	0.33	0.15		ppbV	1	1/24/2013 12:18:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Hexane	0.29	0.15		ppbV	1	1/24/2013 12:18:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
m&p-Xylene	0.62	0.30		ppbV	1	1/24/2013 12:18:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/24/2013 12:18:00 AM
Methyl Ethyl Ketone	1.7	0.30		ppbV	1	1/24/2013 12:18:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/24/2013 12:18:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Methylene chloride	0.14	0.15	J	ppbV	1	1/24/2013 12:18:00 AM
o-Xylene	0.20	0.15		ppbV	1	1/24/2013 12:18:00 AM
Propylene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Styrene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Toluene	0.84	0.15		ppbV	1	1/24/2013 12:18:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Surr: Bromofluorobenzene	89.0	70-130		%REC	1	1/24/2013 12:18:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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LIAL# 3011713

January 25, 2013

Page 1 of 52

Soil Mechanics
Robert J. Cardinale
3770 Merrick Road
Seaford NY, 11783

Re: 12-703 219 Hudson St Manhattan

Dear Robert J. Cardinale,

Enclosed please find Long Island Analytical Laboratories' analysis report(s) for sample(s) received on January 17, 2013. The report was issued on January 25, 2013 for the following:

CLIENT ID	ANALYSIS
GP1/S-1	TAL Target Analyte List, TCL Target Compound List
GP1/S-3	TAL Target Analyte List, TCL Target Compound List
GP2/S-1	TAL Target Analyte List, TCL Target Compound List
GP2/S-2	TAL Target Analyte List, TCL Target Compound List
GP3/S-1	TAL Target Analyte List, TCL Target Compound List
GP3/S-3	TAL Target Analyte List, TCL Target Compound List

Samples received at 1.7 ° C

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

Michael Veraldi - Laboratory Director



LIAL# 3011812

January 25, 2013

Page 1 of 28

Soil Mechanics
Robert J. Cardinale
3770 Merrick Road
Seaford NY, 11783

Re: 12-703 219 Hudson Street Manhattan

Dear Robert J. Cardinale,

Enclosed please find Long Island Analytical Laboratories' analysis report(s) for sample(s) received on January 18, 2013. The report was issued on January 25, 2013 for the following:

CLIENT ID	ANALYSIS
GP-4/S-1	TAL Target Analyte List, TCL Target Compound List
GP-5/S-1	TAL Target Analyte List, TCL Target Compound List
GP-6/S-3	TAL Target Analyte List, TCL Target Compound List

Samples received at 4.7 ° C

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

Michael Veraldi - Laboratory Director

Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 12:00	Sample ID: GP1/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-01
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.88	<5.88	ug/kg dry	
Chloromethane	74-87-3	5.88	<5.88	ug/kg dry	
Vinyl chloride	75-01-4	5.88	<5.88	ug/kg dry	
Bromomethane	74-83-9	5.88	<5.88	ug/kg dry	
Chloroethane	75-00-3	5.88	<5.88	ug/kg dry	
Trichlorofluoromethane	75-69-4	5.88	<5.88	ug/kg dry	
Acetone	67-64-1	11.8	<11.8	ug/kg dry	
1,1-Dichloroethylene	75-35-4	5.88	<5.88	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.88	<5.88	ug/kg dry	
Methyl Acetate	79-20-9	5.88	<5.88	ug/kg dry	
Methylene Chloride	75-09-2	5.88	<5.88	ug/kg dry	
Carbon disulfide	75-15-0	5.88	<5.88	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	5.88	<5.88	ug/kg dry	
trans-1,2-Dichloroethylene	156-60-5	5.88	<5.88	ug/kg dry	
1,1-Dichloroethane	75-34-3	5.88	<5.88	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	11.8	<11.8	ug/kg dry	
cis-1,2-Dichloroethylene	156-59-2	5.88	<5.88	ug/kg dry	
Bromochloromethane	74-97-5	5.88	<5.88	ug/kg dry	
Chloroform	67-66-3	5.88	<5.88	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	5.88	<5.88	ug/kg dry	
1,2-Dichloroethane	107-06-2	5.88	<5.88	ug/kg dry	
Carbon Tetrachloride	56-23-5	5.88	<5.88	ug/kg dry	
Benzene	71-43-2	5.88	<5.88	ug/kg dry	
Trichloroethylene	79-01-6	5.88	<5.88	ug/kg dry	
1,2-Dichloropropane	78-87-5	5.88	<5.88	ug/kg dry	
1,4-Dioxane	123-91-1	58.8	<58.8	ug/kg dry	
Bromodichloromethane	75-27-4	5.88	<5.88	ug/kg dry	
Methyl Isobutyl Ketone	108-10-1	11.8	<11.8	ug/kg dry	
cis-1,3-Dichloropropylene	10061-01-5	5.88	<5.88	ug/kg dry	
Toluene	108-88-3	5.88	<5.88	ug/kg dry	
trans-1,3-Dichloropropylene	10061-02-6	5.88	<5.88	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	5.88	<5.88	ug/kg dry	



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 12:00	Sample ID: GP1/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-01
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Ketone (2-Hexanone)	591-78-6	5.88	<5.88	ug/kg dry	
Dibromochloromethane	124-48-1	5.88	<5.88	ug/kg dry	
Tetrachloroethylene	127-18-4	5.88	<5.88	ug/kg dry	
1,2-Dibromoethane	106-93-4	5.88	<5.88	ug/kg dry	
Chlorobenzene	108-90-7	29.4	<29.4	ug/kg dry	3.A
Ethylbenzene	100-41-4	29.4	<29.4	ug/kg dry	3.A
m,p-Xylenes	108-38-3/106-42-3	58.8	<58.8	ug/kg dry	3.A
Styrene	100-42-5	29.4	<29.4	ug/kg dry	3.A
o-Xylene	95-47-6	29.4	29.4	ug/kg dry	3.E
Bromoform	75-25-2	29.4	<29.4	ug/kg dry	3.A
1,1,2,2-Tetrachloroethane	79-34-5	29.4	<29.4	ug/kg dry	3.A
Isopropylbenzene (Cumene)	98-82-8	29.4	<29.4	ug/kg dry	3.A
1,3-Dichlorobenzene	541-73-1	147	<147	ug/kg dry	3.A
1,4-Dichlorobenzene	106-46-7	147	<147	ug/kg dry	3.A
1,2-Dichlorobenzene	95-50-1	147	<147	ug/kg dry	3.A
1,2-Dibromo-3-chloropropane	96-12-8	147	<147	ug/kg dry	3.A
1,2,4-Trichlorobenzene	120-82-1	147	<147	ug/kg dry	3.A
1,2,3-Trichlorobenzene	87-61-6	147	<147	ug/kg dry	3.A
1H-Indene, 2,3-dihydro-4-methyl-	000824-22-6	NA	83.2	ug/kg dry	5.K
2-Pentene, 2,3-dimethyl-	010574-37-5	NA	10.8	ug/kg dry	5.K
Benzene, 1,2,3,5-tetramethyl-	000527-53-7	NA	139	ug/kg dry	5.K
Benzene, 1-ethyl-3-methyl-	000620-14-4	NA	73.5	ug/kg dry	5.K
Benzene, 1-methyl-2-(2-propenyl)-	001587-04-8	NA	84.3	ug/kg dry	5.K
Benzene, 2-ethyl-1,4-dimethyl-	001758-88-9	NA	181	ug/kg dry	5.K
Butane, 2,2,3,3-tetramethyl-	000594-82-1	NA	17.0	ug/kg dry	5.K
Hexane, 2,3,4-trimethyl-	000921-47-1	NA	29.0	ug/kg dry	5.K
o-Cymene	000527-84-4	NA	145	ug/kg dry	5.K
Spiro[2.4]hept-5-ene, 5-trimethylsilylmethyl-1	1000153-96-9	NA	99.6	ug/kg dry	5.K
unknown hydrocarbon	NA	NA	87.9	ug/kg dry	5.K

260/1600

Date Prepared: 01/18/2013

Preparation Method: EPA 5030C Modified

Date Analyzed: 01/23/2013

Analytical Method: EPA 8260 C



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 12:00	Sample ID: GP1/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-01
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	77.6	<77.6	ug/kg dry	
Acetophenone	989-86-2	106	<106	ug/kg dry	
Phenol	108-95-2	47.0	<47.0	ug/kg dry	
2-Chlorophenol	95-57-8	47.0	<47.0	ug/kg dry	
Caprolactam	105-60-2	176	<176	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	47.0	<47.0	ug/kg dry	
1,1-Biphenyl	92-52-4	141	<141	ug/kg dry	
1,2-Diphenylhydrazine	122-66-7	77.6	<77.6	ug/kg dry	
2-Methylphenol	95-48-7	47.0	<47.0	ug/kg dry	
Atrazine	1912-24-9	77.6	<77.6	ug/kg dry	
Bis(2-chloroisopropyl)ether	39638-32-9	47.0	<47.0	ug/kg dry	
Hexachloroethane	67-72-1	47.0	<47.0	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	47.0	<47.0	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	47.0	<47.0	ug/kg dry	
Nitrobenzene	98-95-3	47.0	<47.0	ug/kg dry	
Isophorone	78-59-1	47.0	<47.0	ug/kg dry	
2-Nitrophenol	88-75-5	47.0	<47.0	ug/kg dry	
2,4-Dimethylphenol	105-67-9	47.0	<47.0	ug/kg dry	
bis(2-Chloroethoxy)methane	111-91-1	47.0	<47.0	ug/kg dry	
2,4-Dichlorophenol	120-83-2	47.0	<47.0	ug/kg dry	
Naphthalene	91-20-3	47.0	<47.0	ug/kg dry	
4-Chloroaniline	106-47-8	47.0	<47.0	ug/kg dry	
Hexachlorobutadiene	87-68-3	47.0	<47.0	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	47.0	<47.0	ug/kg dry	
2-Methylnaphthalene	91-57-6	47.0	<47.0	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	47.0	<47.0	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	47.0	<47.0	ug/kg dry	
2,4,5-Trichlorophenol	95-95-4	47.0	<47.0	ug/kg dry	
2-Chloronaphthalene	91-58-7	47.0	<47.0	ug/kg dry	
2-Nitroaniline	88-74-4	47.0	<47.0	ug/kg dry	
Dimethyl phthalate	131-11-3	47.0	<47.0	ug/kg dry	
Acenaphthylene	208-96-8	47.0	61.1	ug/kg dry	

100% / 100%



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Date (Time) Collected: 01/12/2013 12:00	Sample ID: GP1/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-01
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	47.0	<47.0	ug/kg dry	
3-Nitroaniline	99-09-2	47.0	<47.0	ug/kg dry	
Acenaphthene	83-32-9	47.0	112	ug/kg dry	20k/98k
2,4-Dinitrophenol	51-28-5	159	<159	ug/kg dry	
Dibenzofuran	132-64-9	47.0	56.4	ug/kg dry	7k/14k
4-Nitrophenol	100-02-7	159	<159	ug/kg dry	
2,4-Dinitrotoluene	121-14-2	47.0	<47.0	ug/kg dry	
Fluorene	86-73-7	47.0	82.3	ug/kg dry	70k/100k
Diethyl phthalate	84-66-2	47.0	<47.0	ug/kg dry	
4-Chlorophenyl phenyl ether	7005-72-3	47.0	<47.0	ug/kg dry	
4-Nitroaniline	100-01-6	47.0	<47.0	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	159	<159	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	47.0	<47.0	ug/kg dry	
4-Bromophenyl phenyl ether	101-55-3	47.0	<47.0	ug/kg dry	
Hexachlorobenzene	118-74-1	47.0	<47.0	ug/kg dry	
Pentachlorophenol	87-86-5	47.0	<47.0	ug/kg dry	
Phenanthrene	85-01-8	47.0	1270	ug/kg dry	100k/100k
Anthracene	120-12-7	47.0	303	ug/kg dry	100k/100k
Carbazole	86-74-8	47.0	84.6	ug/kg dry	-
Di-n-butyl phthalate	84-74-2	47.0	<47.0	ug/kg dry	
Fluoranthene	206-44-0	47.0	1850	ug/kg dry	100k/100k
Pyrene	129-00-0	47.0	1610	ug/kg dry	100k/100k
Butyl benzyl phthalate	85-68-7	47.0	<47.0	ug/kg dry	
Benzo(a)anthracene	56-55-3	47.0	782	ug/kg dry	1k/1k
Chrysene	218-01-9	47.0	815	ug/kg dry	1k/1k
3,3'-Dichlorobenzidine	91-94-1	47.0	<47.0	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	47.0	<47.0	ug/kg dry	
Di-n-octyl phthalate	117-84-0	47.0	<47.0	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	47.0	1080	ug/kg dry	1k/1k
Benzo(k)fluoranthene	207-08-9	47.0	396	ug/kg dry	800/1000.0
Benzo(a)pyrene	50-32-8	47.0	839	ug/kg dry	1k/1k



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 12:00	Sample ID: GP1/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-01
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	47.0	549	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	47.0	134	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	47.0	629	ug/kg dry	
2-Pentanone, 4-hydroxy-	004161-60-8	NA	420	ug/kg dry	
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	25200	ug/kg dry	
4H-Cyclopenta[def]phenanthrene	000203-64-5	NA	303	ug/kg dry	
7H-Benz[de]anthracen-7-one	000082-05-3	NA	168	ug/kg dry	

*600/870
370/330
1000/1000*

Date Prepared: 01/17/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/21/2013

Analytical Method: EPA 8270 D



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 12:00	Sample ID: GP1/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-01
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	5.88	<5.88	ug/kg dry	
gamma-BHC	58-89-9	5.88	<5.88	ug/kg dry	
beta-BHC	319-85-7	5.88	<5.88	ug/kg dry	
delta-BHC	319-86-8	5.88	<5.88	ug/kg dry	
Heptachlor	76-44-8	5.88	<5.88	ug/kg dry	
Aldrin	309-00-2	5.88	<5.88	ug/kg dry	
Heptachlor Epoxide	1024-57-3	5.88	<5.88	ug/kg dry	
trans-Chlordane	5103-74-2	5.88	<5.88	ug/kg dry	
cis-Chlordane	5103-71-9	5.88	<5.88	ug/kg dry	
4,4'-DDE	72-55-9	5.88	<5.88	ug/kg dry	
Endosulfan I	959-98-8	5.88	<5.88	ug/kg dry	
Dieldrin	60-57-1	5.88	<5.88	ug/kg dry	
Endrin	72-20-8	5.88	<5.88	ug/kg dry	
4,4'-DDD	72-54-8	5.88	<5.88	ug/kg dry	
Endosulfan II	33213-65-9	5.88	<5.88	ug/kg dry	
4,4'-DDT	50-29-3	5.88	<5.88	ug/kg dry	
Endrin Aldehyde	7421-93-4	5.88	<5.88	ug/kg dry	
Methoxychlor	72-43-5	5.88	<5.88	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.88	<5.88	ug/kg dry	
Endrin Ketone	53494-70-5	5.88	<5.88	ug/kg dry	
Toxaphene	8001-35-2	118	<118	ug/kg dry	
Chlordane	12789-03-6	17.6	<17.6	ug/kg dry	

Date Prepared: 01/18/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/24/2013

Analytical Method: EPA 8081B



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 12:00	Sample ID: GP1/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-01
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	58.8	<58.8	ug/kg dry	
Aroclor-1260	11096-82-5	58.8	<58.8	ug/kg dry	
Aroclor-1221	11104-28-2	58.8	<58.8	ug/kg dry	
Aroclor-1232	11141-16-5	58.8	<58.8	ug/kg dry	
Aroclor-1242	53469-21-9	58.8	<58.8	ug/kg dry	
Aroclor-1248	12672-29-6	58.8	<58.8	ug/kg dry	
Aroclor-1254	11097-69-1	58.8	<58.8	ug/kg dry	
Aroclor-1262	37324-23-5	58.8	<58.8	ug/kg dry	
Aroclor-1268	11100-14-4	58.8	<58.8	ug/kg dry	

Date Prepared: 01/18/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/18/2013

Analytical Method: EPA 8082 A



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Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/21/2013	EPA 6010 C	163	4480	mg/kg dry	3.E
Antimony	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Arsenic	01/21/2013	EPA 6010 C	1.00	4.13	mg/kg dry	13/14
Barium	01/21/2013	EPA 6010 C	0.99	72.1	mg/kg dry	362/350
Beryllium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Cadmium	01/21/2013	EPA 6010 C	1.00	<1.00	mg/kg dry	
Calcium	01/21/2013	EPA 6010 C	813	25900	mg/kg dry	3.E
Chromium	01/21/2013	EPA 6010 C	1.65	8.47	mg/kg dry	20/36
Cobalt	01/21/2013	EPA 6010 C	1.65	3.13	mg/kg dry	
Copper	01/21/2013	EPA 6010 C	1.65	27.9	mg/kg dry	40/270
Iron	01/21/2013	EPA 6010 C	163	7800	mg/kg dry	3.E
Lead	01/21/2013	EPA 6010 C	3.25	198	mg/kg dry	63/400
Magnesium	01/21/2013	EPA 6010 C	3.25	2020	mg/kg dry	3.E
Manganese	01/21/2013	EPA 6010 C	8.25	169	mg/kg dry	
Nickel	01/21/2013	EPA 6010 C	1.65	8.72	mg/kg dry	20/130
Potassium	01/21/2013	EPA 6010 C	1.65	964	mg/kg dry	
Selenium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Silver	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Sodium	01/21/2013	EPA 6010 C	8.13	621	mg/kg dry	
Thallium	01/21/2013	EPA 6010 C	1.65	1.66	mg/kg dry	
Vanadium	01/21/2013	EPA 6010 C	1.65	12.5	mg/kg dry	
Zinc	01/21/2013	EPA 6010 C	3.25	209	mg/kg dry	3.E 109/220

Date Prepared: 01/18/2013

Preparation Method: EPA 3050B

Date Analyzed: 01/21/2013

Analytical Method: EPA 6010 C

Mercury	01/23/2013	EPA 7471 B	0.02	0.38	mg/kg dry	0.18/0.73
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Date Prepared: 01/18/2013

Preparation Method: EPA 7471 B

Date Analyzed: 01/23/2013

Analytical Method: EPA 7471 B

Cyanide	01/22/2013	EPA 9014	0.12	<0.12	mg/kg dry	
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Date Prepared: 01/18/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/22/2013

Analytical Method: EPA 9014



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Date (Time) Collected: 01/12/2013 12:30	Sample ID: GP1/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-02
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	278	<278	ug/kg dry	3.A
Chloromethane	74-87-3	278	<278	ug/kg dry	3.A
Vinyl chloride	75-01-4	278	<278	ug/kg dry	3.A
Bromomethane	74-83-9	278	<278	ug/kg dry	3.A
Chloroethane	75-00-3	278	<278	ug/kg dry	3.A
Trichlorofluoromethane	75-69-4	278	<278	ug/kg dry	3.A
Acetone	67-64-1	556	<556	ug/kg dry	3.A
1,1-Dichloroethylene	75-35-4	278	<278	ug/kg dry	3.A
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	278	<278	ug/kg dry	3.A
Methyl Acetate	79-20-9	278	<278	ug/kg dry	3.A
Methylene Chloride	75-09-2	278	<278	ug/kg dry	3.A
Carbon disulfide	75-15-0	278	<278	ug/kg dry	3.A
Methyl-tert-Butyl Ether	1634-04-4	278	<278	ug/kg dry	3.A
trans-1,2-Dichloroethylene	156-60-5	278	<278	ug/kg dry	3.A
1,1-Dichloroethane	75-34-3	278	<278	ug/kg dry	3.A
Methyl Ethyl Ketone (2-Butanone)	78-93-3	556	<556	ug/kg dry	3.A
cis-1,2-Dichloroethylene	156-59-2	278	<278	ug/kg dry	3.A
Bromochloromethane	74-97-5	278	<278	ug/kg dry	3.A
Chloroform	67-66-3	278	<278	ug/kg dry	3.A
1,1,1-Trichloroethane	71-55-6	278	<278	ug/kg dry	3.A
1,2-Dichloroethane	107-06-2	278	<278	ug/kg dry	3.A
Carbon Tetrachloride	56-23-5	278	<278	ug/kg dry	3.A
Benzene	71-43-2	278	<278	ug/kg dry	3.A
Trichloroethylene	79-01-6	278	<278	ug/kg dry	3.A
1,2-Dichloropropane	78-87-5	278	<278	ug/kg dry	3.A
1,4-Dioxane	123-91-1	2780	<2780	ug/kg dry	3.A
Bromodichloromethane	75-27-4	278	<278	ug/kg dry	3.A
Methyl Isobutyl Ketone	108-10-1	556	<556	ug/kg dry	3.A
cis-1,3-Dichloropropylene	10061-01-5	278	<278	ug/kg dry	3.A
Toluene	108-88-3	278	<278	ug/kg dry	3.A
trans-1,3-Dichloropropylene	10061-02-6	278	<278	ug/kg dry	3.A
1,1,2-Trichloroethane	79-00-5	278	<278	ug/kg dry	3.A



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Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Ketone (2-Hexanone)	591-78-6	278	<278	ug/kg dry	3.A
Dibromochloromethane	124-48-1	278	<278	ug/kg dry	3.A
Tetrachloroethylene	127-18-4	278	<278	ug/kg dry	3.A
1,2-Dibromoethane	106-93-4	278	<278	ug/kg dry	3.A
Chlorobenzene	108-90-7	278	<278	ug/kg dry	3.A
Ethylbenzene	100-41-4	278	51500	ug/kg dry	3.E, 4.A
m,p-Xylenes	108-38-3/106-42-3	556	6500	ug/kg dry	3.E
Styrene	100-42-5	278	<278	ug/kg dry	3.A
o-Xylene	95-47-6	278	394	ug/kg dry	3.E
Bromoform	75-25-2	278	<278	ug/kg dry	3.A
1,1,2,2-Tetrachloroethane	79-34-5	278	<278	ug/kg dry	3.A
Isopropylbenzene (Cumene)	98-82-8	278	19400	ug/kg dry	3.E, 4.A
1,3-Dichlorobenzene	541-73-1	278	<278	ug/kg dry	3.A
1,4-Dichlorobenzene	106-46-7	278	<278	ug/kg dry	3.A
1,2-Dichlorobenzene	95-50-1	278	<278	ug/kg dry	3.A
1,2-Dibromo-3-chloropropane	96-12-8	278	<278	ug/kg dry	3.A
1,2,4-Trichlorobenzene	120-82-1	278	<278	ug/kg dry	3.A
1,2,3-Trichlorobenzene	87-61-6	278	<278	ug/kg dry	3.A
1H-Indene, 2,3-dihydro-5-methyl-	000874-35-1	NA	4900	ug/kg dry	5.K
Benzene, 1,2,3,5-tetramethyl-	000527-53-7	NA	9240	ug/kg dry	5.K
Benzene, 1-ethenyl-4-ethyl-	003454-07-7	NA	4900	ug/kg dry	5.K
Benzene, 1-ethyl-2,3-dimethyl-	000933-98-2	NA	11900	ug/kg dry	5.K
Benzene, 1-ethyl-2-methyl-	000611-14-3	NA	5410	ug/kg dry	5.K
Benzene, 1-methyl-4-propyl-	001074-55-1	NA	3970	ug/kg dry	5.K
Cyclohexane, methyl-	000108-87-2	NA	21700	ug/kg dry	5.K
Decane, 2,5,6-trimethyl-	062108-23-0	NA	4540	ug/kg dry	5.K
Heptane	142-82-5	NA	9510	ug/kg dry	5.K
Heptane, 2-methyl-	000592-27-8	NA	18100	ug/kg dry	5.K
Heptane, 3-methyl-	000589-81-1	NA	20100	ug/kg dry	5.K
Heptane, 4-methyl-	000589-53-7	NA	7390	ug/kg dry	5.K
Hexane, 2,2-dimethyl-	000590-73-8	NA	12100	ug/kg dry	5.K

1K/1K
260/1600

2300



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-02
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Hexane, 2,3-dimethyl-	000584-94-1	NA	16300	ug/kg dry	5.K
Indan, 1-methyl-	000767-58-8	NA	6610	ug/kg dry	5.K
Mesitylene	000108-67-8	NA	5980	ug/kg dry	5.K
unknown hydrocarbon	NA	NA	7910	ug/kg dry	5.K

Date Prepared: 01/18/2013

Preparation Method: EPA 5030C Modified

Date Analyzed: 01/18/2013

Analytical Method: EPA 8260 C



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Date (Time) Collected: 01/12/2013 12:30	Sample ID: GP1/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-02
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	73.4	<73.4	ug/kg dry	
Acetophenone	989-86-2	100	<100	ug/kg dry	
Phenol	108-95-2	44.5	<44.5	ug/kg dry	
2-Chlorophenol	95-57-8	44.5	<44.5	ug/kg dry	
Caprolactam	105-60-2	167	<167	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	44.5	<44.5	ug/kg dry	
1,1-Biphenyl	92-52-4	133	<133	ug/kg dry	
1,2-Diphenylhydrazine	122-66-7	73.4	<73.4	ug/kg dry	
2-Methylphenol	95-48-7	44.5	<44.5	ug/kg dry	
Atrazine	1912-24-9	73.4	<73.4	ug/kg dry	
Bis(2-chloroisopropyl)ether	39638-32-9	44.5	<44.5	ug/kg dry	
Hexachloroethane	67-72-1	44.5	<44.5	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	44.5	<44.5	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	44.5	<44.5	ug/kg dry	
Nitrobenzene	98-95-3	44.5	<44.5	ug/kg dry	
Isophorone	78-59-1	44.5	<44.5	ug/kg dry	
2-Nitrophenol	88-75-5	44.5	<44.5	ug/kg dry	
2,4-Dimethylphenol	105-67-9	44.5	<44.5	ug/kg dry	
bis(2-Chloroethoxy)methane	111-91-1	44.5	<44.5	ug/kg dry	
2,4-Dichlorophenol	120-83-2	44.5	<44.5	ug/kg dry	
Naphthalene	91-20-3	44.5	272	ug/kg dry	12/12/11
4-Chloroaniline	106-47-8	44.5	<44.5	ug/kg dry	
Hexachlorobutadiene	87-68-3	44.5	<44.5	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	44.5	<44.5	ug/kg dry	
2-Methylnaphthalene	91-57-6	44.5	449	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	44.5	<44.5	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	44.5	<44.5	ug/kg dry	
2,4,5-Trichlorophenol	95-95-4	44.5	<44.5	ug/kg dry	
2-Chloronaphthalene	91-58-7	44.5	<44.5	ug/kg dry	
2-Nitroaniline	88-74-4	44.5	<44.5	ug/kg dry	
Dimethyl phthalate	131-11-3	44.5	<44.5	ug/kg dry	
Acenaphthylene	208-96-8	44.5	<44.5	ug/kg dry	



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Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	44.5	<44.5	ug/kg dry	
3-Nitroaniline	99-09-2	44.5	<44.5	ug/kg dry	
Acenaphthene	83-32-9	44.5	<44.5	ug/kg dry	
2,4-Dinitrophenol	51-28-5	150	<150	ug/kg dry	
Dibenzofuran	132-64-9	44.5	<44.5	ug/kg dry	
4-Nitrophenol	100-02-7	150	<150	ug/kg dry	
2,4-Dinitrotoluene	121-14-2	44.5	<44.5	ug/kg dry	
Fluorene	86-73-7	44.5	<44.5	ug/kg dry	
Diethyl phthalate	84-66-2	44.5	<44.5	ug/kg dry	
4-Chlorophenyl phenyl ether	7005-72-3	44.5	<44.5	ug/kg dry	
4-Nitroaniline	100-01-6	44.5	<44.5	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	150	<150	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	44.5	<44.5	ug/kg dry	
4-Bromophenyl phenyl ether	101-55-3	44.5	<44.5	ug/kg dry	
Hexachlorobenzene	118-74-1	44.5	<44.5	ug/kg dry	
Pentachlorophenol	87-86-5	44.5	<44.5	ug/kg dry	
Phenanthrene	85-01-8	44.5	112	ug/kg dry	
Anthracene	120-12-7	44.5	<44.5	ug/kg dry	
Carbazole	86-74-8	44.5	<44.5	ug/kg dry	
Di-n-butyl phthalate	84-74-2	44.5	<44.5	ug/kg dry	
Fluoranthene	206-44-0	44.5	<44.5	ug/kg dry	
Pyrene	129-00-0	44.5	<44.5	ug/kg dry	
Butyl benzyl phthalate	85-68-7	44.5	<44.5	ug/kg dry	
Benzo(a)anthracene	56-55-3	44.5	<44.5	ug/kg dry	
Chrysene	218-01-9	44.5	<44.5	ug/kg dry	
3,3'-Dichlorobenzidine	91-94-1	44.5	<44.5	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	44.5	113	ug/kg dry	
Di-n-octyl phthalate	117-84-0	44.5	<44.5	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	44.5	<44.5	ug/kg dry	
Benzo(k)fluoranthene	207-08-9	44.5	<44.5	ug/kg dry	
Benzo(a)pyrene	50-32-8	44.5	<44.5	ug/kg dry	



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-02
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	44.5	<44.5	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	44.5	<44.5	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	44.5	<44.5	ug/kg dry	
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	8850	ug/kg dry	
Benzene, 1,2,4,5-tetramethyl-	000095-93-2	NA	638	ug/kg dry	
Cholestan-3-one, (5.beta.)-	000601-53-6	NA	1160	ug/kg dry	
Cholesterol (01)	000080-97-7	NA	852	ug/kg dry	
Cholesterol (02)	000080-97-7	NA	631	ug/kg dry	
Cyclic octaatomic sulfur	010544-50-0	NA	908	ug/kg dry	
Decane, 2,6,7-trimethyl-	062108-25-2	NA	1230	ug/kg dry	
Decane, 3,8-dimethyl-	017312-55-9	NA	529	ug/kg dry	
Decane, 5-methyl-	013151-35-4	NA	1230	ug/kg dry	
Heptadecane, 2,6,10,14-tetramethyl	18344	NA	1010	ug/kg dry	
Heptadecane, 2,6-dimethyl-	054105-67-8	NA	1340	ug/kg dry	
Nonane, 3,7-dimethyl-	017302-32-8	NA	1480	ug/kg dry	
Octane, 2,7-dimethyl-	001072-16-8	NA	831	ug/kg dry	
Pentadecane, 2,6,10-trimethyl-	003892-00-0	NA	1620	ug/kg dry	
Phenol, 4-(1,1,3,3-tetramethylbutyl)- (01)	000140-66-9	NA	509	ug/kg dry	
Phenol, 4-(1,1,3,3-tetramethylbutyl)- (02)	000140-66-9	NA	492	ug/kg dry	
Undecane, 2,6-dimethyl-	017301-23-4	NA	860	ug/kg dry	

Date Prepared: 01/17/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/21/2013

Analytical Method: EPA 8270 D



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-02
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	5.56	<5.56	ug/kg dry	
gamma-BHC	58-89-9	5.56	<5.56	ug/kg dry	
beta-BHC	319-85-7	5.56	<5.56	ug/kg dry	
delta-BHC	319-86-8	5.56	<5.56	ug/kg dry	
Heptachlor	76-44-8	5.56	<5.56	ug/kg dry	
Aldrin	309-00-2	5.56	<5.56	ug/kg dry	
Heptachlor Epoxide	1024-57-3	5.56	<5.56	ug/kg dry	
trans-Chlordane	5103-74-2	5.56	<5.56	ug/kg dry	
cis-Chlordane	5103-71-9	5.56	<5.56	ug/kg dry	
4,4'-DDE	72-55-9	5.56	<5.56	ug/kg dry	
Endosulfan I	959-98-8	5.56	<5.56	ug/kg dry	
Dieldrin	60-57-1	5.56	<5.56	ug/kg dry	
Endrin	72-20-8	5.56	<5.56	ug/kg dry	
4,4'-DDD	72-54-8	5.56	<5.56	ug/kg dry	
Endosulfan II	33213-65-9	5.56	<5.56	ug/kg dry	
4,4'-DDT	50-29-3	5.56	<5.56	ug/kg dry	
Endrin Aldehyde	7421-93-4	5.56	<5.56	ug/kg dry	
Methoxychlor	72-43-5	5.56	<5.56	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.56	<5.56	ug/kg dry	
Endrin Ketone	53494-70-5	5.56	<5.56	ug/kg dry	
Toxaphene	8001-35-2	111	<111	ug/kg dry	
Chlordane	12789-03-6	16.7	<16.7	ug/kg dry	

Date Prepared: 01/18/2013

Date Analyzed: 01/24/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8081B



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 12:30	Sample ID: GP1/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-02
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	55.6	<55.6	ug/kg dry	
Aroclor-1260	11096-82-5	55.6	<55.6	ug/kg dry	
Aroclor-1221	11104-28-2	55.6	<55.6	ug/kg dry	
Aroclor-1232	11141-16-5	55.6	<55.6	ug/kg dry	
Aroclor-1242	53469-21-9	55.6	<55.6	ug/kg dry	
Aroclor-1248	12672-29-6	55.6	<55.6	ug/kg dry	
Aroclor-1254	11097-69-1	55.6	<55.6	ug/kg dry	
Aroclor-1262	37324-23-5	55.6	<55.6	ug/kg dry	
Aroclor-1268	11100-14-4	55.6	<55.6	ug/kg dry	

Date Prepared: 01/18/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/21/2013

Analytical Method: EPA 8082 A



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 12:30	Sample ID: GP1/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-02
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/21/2013	EPA 6010 C	146	4760	mg/kg dry	3.E
Antimony	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Arsenic	01/21/2013	EPA 6010 C	1.00	1.90	mg/kg dry	
Barium	01/21/2013	EPA 6010 C	0.88	40.0	mg/kg dry	30/350
Beryllium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Cadmium	01/21/2013	EPA 6010 C	1.00	<1.00	mg/kg dry	
Calcium	01/21/2013	EPA 6010 C	728	12800	mg/kg dry	3.E
Chromium	01/21/2013	EPA 6010 C	1.65	11.1	mg/kg dry	30/34
Cobalt	01/21/2013	EPA 6010 C	1.65	3.95	mg/kg dry	50/270
Copper	01/21/2013	EPA 6010 C	1.65	13.2	mg/kg dry	
Iron	01/21/2013	EPA 6010 C	146	8420	mg/kg dry	3.E
Lead	01/21/2013	EPA 6010 C	1.65	89.6	mg/kg dry	63/100
Magnesium	01/21/2013	EPA 6010 C	7.28	4140	mg/kg dry	3.E
Manganese	01/21/2013	EPA 6010 C	8.25	110	mg/kg dry	
Nickel	01/21/2013	EPA 6010 C	1.65	13.0	mg/kg dry	30/130
Potassium	01/21/2013	EPA 6010 C	7.28	1010	mg/kg dry	3.E
Selenium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Silver	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Sodium	01/21/2013	EPA 6010 C	7.28	144	mg/kg dry	
Thallium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Vanadium	01/21/2013	EPA 6010 C	1.65	19.0	mg/kg dry	
Zinc	01/21/2013	EPA 6010 C	1.65	47.1	mg/kg dry	109/2200

Date Prepared: 01/18/2013

Preparation Method: EPA 3050B

Date Analyzed: 01/21/2013

Analytical Method: EPA 6010 C

Mercury	01/23/2013	EPA 7471 B	0.02	0.03	mg/kg dry	0.15
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Date Prepared: 01/18/2013

Preparation Method: EPA 7471 B

Date Analyzed: 01/23/2013

Analytical Method: EPA 7471 B

Cyanide	01/22/2013	EPA 9014	0.11	0.12	mg/kg dry	
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Date Prepared: 01/18/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/22/2013

Analytical Method: EPA 9014

*uwsw
pb*



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 13:00	Sample ID: GP2/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-03
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.84	<5.84	ug/kg dry	
Chloromethane	74-87-3	5.84	<5.84	ug/kg dry	
Vinyl chloride	75-01-4	5.84	<5.84	ug/kg dry	
Bromomethane	74-83-9	5.84	<5.84	ug/kg dry	
Chloroethane	75-00-3	5.84	<5.84	ug/kg dry	
Trichlorofluoromethane	75-69-4	5.84	<5.84	ug/kg dry	
Acetone	67-64-1	11.7	<11.7	ug/kg dry	
1,1-Dichloroethylene	75-35-4	5.84	<5.84	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.84	<5.84	ug/kg dry	
Methyl Acetate	79-20-9	5.84	<5.84	ug/kg dry	
Methylene Chloride	75-09-2	5.84	<5.84	ug/kg dry	
Carbon disulfide	75-15-0	5.84	<5.84	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	5.84	<5.84	ug/kg dry	
trans-1,2-Dichloroethylene	156-60-5	5.84	<5.84	ug/kg dry	
1,1-Dichloroethane	75-34-3	5.84	<5.84	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	11.7	<11.7	ug/kg dry	
cis-1,2-Dichloroethylene	156-59-2	5.84	<5.84	ug/kg dry	
Bromochloromethane	74-97-5	5.84	<5.84	ug/kg dry	
Chloroform	67-66-3	5.84	<5.84	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	5.84	<5.84	ug/kg dry	
1,2-Dichloroethane	107-06-2	5.84	<5.84	ug/kg dry	
Carbon Tetrachloride	56-23-5	5.84	<5.84	ug/kg dry	
Benzene	71-43-2	5.84	<5.84	ug/kg dry	
Trichloroethylene	79-01-6	5.84	<5.84	ug/kg dry	
1,2-Dichloropropane	78-87-5	5.84	<5.84	ug/kg dry	
1,4-Dioxane	123-91-1	58.4	<58.4	ug/kg dry	
Bromodichloromethane	75-27-4	5.84	<5.84	ug/kg dry	
Methyl Isobutyl Ketone	108-10-1	11.7	<11.7	ug/kg dry	
cis-1,3-Dichloropropylene	10061-01-5	5.84	<5.84	ug/kg dry	
Toluene	108-88-3	5.84	<5.84	ug/kg dry	
trans-1,3-Dichloropropylene	10061-02-6	5.84	<5.84	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	5.84	<5.84	ug/kg dry	



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-03
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Ketone (2-Hexanone)	591-78-6	5.84	<5.84	ug/kg dry	
Dibromochloromethane	124-48-1	5.84	<5.84	ug/kg dry	
Tetrachloroethylene	127-18-4	5.84	<5.84	ug/kg dry	
1,2-Dibromoethane	106-93-4	5.84	<5.84	ug/kg dry	
Chlorobenzene	108-90-7	5.84	<5.84	ug/kg dry	
Ethylbenzene	100-41-4	5.84	<5.84	ug/kg dry	
m,p-Xylenes	108-38-3/106-42-3	11.7	<11.7	ug/kg dry	
Styrene	100-42-5	5.84	<5.84	ug/kg dry	
o-Xylene	95-47-6	5.84	<5.84	ug/kg dry	
Bromoform	75-25-2	5.84	<5.84	ug/kg dry	
1,1,2,2-Tetrachloroethane	79-34-5	5.84	<5.84	ug/kg dry	
Isopropylbenzene (Cumene)	98-82-8	5.84	<5.84	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	5.84	<5.84	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	5.84	<5.84	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	5.84	<5.84	ug/kg dry	
1,2-Dibromo-3-chloropropane	96-12-8	5.84	<5.84	ug/kg dry	
1,2,4-Trichlorobenzene	120-82-1	5.84	<5.84	ug/kg dry	
1,2,3-Trichlorobenzene	87-61-6	5.84	<5.84	ug/kg dry	

Date Prepared: 01/18/2013

Date Analyzed: 01/18/2013

Preparation Method: EPA 5030C Modified

Analytical Method: EPA 8260 C



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 13:00	Sample ID: GP2/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-03
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	77.1	<77.1	ug/kg dry	
Acetophenone	989-86-2	105	<105	ug/kg dry	
Phenol	108-95-2	46.7	<46.7	ug/kg dry	
2-Chlorophenol	95-57-8	46.7	<46.7	ug/kg dry	
Caprolactam	105-60-2	175	<175	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	46.7	<46.7	ug/kg dry	
1,1-Biphenyl	92-52-4	140	<140	ug/kg dry	
1,2-Diphenylhydrazine	122-66-7	77.1	<77.1	ug/kg dry	
2-Methylphenol	95-48-7	46.7	<46.7	ug/kg dry	
Atrazine	1912-24-9	77.1	<77.1	ug/kg dry	
Bis(2-chloroisopropyl)ether	39638-32-9	46.7	<46.7	ug/kg dry	
Hexachloroethane	67-72-1	46.7	<46.7	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	46.7	<46.7	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	46.7	<46.7	ug/kg dry	
Nitrobenzene	98-95-3	46.7	<46.7	ug/kg dry	
Isophorone	78-59-1	46.7	<46.7	ug/kg dry	
2-Nitrophenol	88-75-5	46.7	<46.7	ug/kg dry	
2,4-Dimethylphenol	105-67-9	46.7	<46.7	ug/kg dry	
bis(2-Chloroethoxy)methane	111-91-1	46.7	<46.7	ug/kg dry	
2,4-Dichlorophenol	120-83-2	46.7	<46.7	ug/kg dry	
Naphthalene	91-20-3	46.7	<46.7	ug/kg dry	
4-Chloroaniline	106-47-8	46.7	<46.7	ug/kg dry	
Hexachlorobutadiene	87-68-3	46.7	<46.7	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	46.7	<46.7	ug/kg dry	
2-Methylnaphthalene	91-57-6	46.7	<46.7	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	46.7	<46.7	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	46.7	<46.7	ug/kg dry	
2,4,5-Trichlorophenol	95-95-4	46.7	<46.7	ug/kg dry	
2-Chloronaphthalene	91-58-7	46.7	<46.7	ug/kg dry	
2-Nitroaniline	88-74-4	46.7	<46.7	ug/kg dry	
Dimethyl phthalate	131-11-3	46.7	<46.7	ug/kg dry	
Acenaphthylene	208-96-8	46.7	86.5	ug/kg dry	



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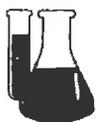
Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 13:00	Sample ID: GP2/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-03
Matrix: Soil	ELAP: #11693

Semivolatle Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	46.7	<46.7	ug/kg dry	
3-Nitroaniline	99-09-2	46.7	<46.7	ug/kg dry	
Acenaphthene	83-32-9	46.7	<46.7	ug/kg dry	
2,4-Dinitrophenol	51-28-5	158	<158	ug/kg dry	
Dibenzofuran	132-64-9	46.7	<46.7	ug/kg dry	
4-Nitrophenol	100-02-7	158	<158	ug/kg dry	
2,4-Dinitrotoluene	121-14-2	46.7	<46.7	ug/kg dry	
Fluorene	86-73-7	46.7	<46.7	ug/kg dry	
Diethyl phthalate	84-66-2	46.7	<46.7	ug/kg dry	
4-Chlorophenyl phenyl ether	7005-72-3	46.7	<46.7	ug/kg dry	
4-Nitroaniline	100-01-6	46.7	<46.7	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	158	<158	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	46.7	<46.7	ug/kg dry	
4-Bromophenyl phenyl ether	101-55-3	46.7	<46.7	ug/kg dry	
Hexachlorobenzene	118-74-1	46.7	<46.7	ug/kg dry	
Pentachlorophenol	87-86-5	46.7	<46.7	ug/kg dry	
Phenanthrene	85-01-8	46.7	<46.7	ug/kg dry	
Anthracene	120-12-7	46.7	58.4	ug/kg dry	
Carbazole	86-74-8	46.7	<46.7	ug/kg dry	
Di-n-butyl phthalate	84-74-2	46.7	<46.7	ug/kg dry	
Fluoranthene	206-44-0	46.7	155	ug/kg dry	
Pyrene	129-00-0	46.7	144	ug/kg dry	
Butyl benzyl phthalate	85-68-7	46.7	<46.7	ug/kg dry	
Benzo(a)anthracene	56-55-3	46.7	111	ug/kg dry	
Chrysene	218-01-9	46.7	112	ug/kg dry	
3,3'-Dichlorobenzidene	91-94-1	46.7	<46.7	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	46.7	72.5	ug/kg dry	
Di-n-octyl phthalate	117-84-0	46.7	<46.7	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	46.7	239	ug/kg dry	
Benzo(k)fluoranthene	207-08-9	46.7	81.0	ug/kg dry	
Benzo(a)pyrene	50-32-8	46.7	214	ug/kg dry	

100k/100k
100k/100k
1k/1k
1k/1k

1k-1k
800/1k
1k-1k



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 13:00	Sample ID: GP2/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-03
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	46.7	372	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	46.7	67.8	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	46.7	503	ug/kg dry	
2-Pentanone, 4-hydroxy-	004161-60-8	NA	333	ug/kg dry	
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	24200	ug/kg dry	

Date Prepared: 01/17/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/21/2013

Analytical Method: EPA 8270 D



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 13:00	Sample ID: GP2/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-03
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	5.84	<5.84	ug/kg dry	
gamma-BHC	58-89-9	5.84	<5.84	ug/kg dry	
beta-BHC	319-85-7	5.84	<5.84	ug/kg dry	
delta-BHC	319-86-8	5.84	<5.84	ug/kg dry	
Heptachlor	76-44-8	5.84	<5.84	ug/kg dry	
Aldrin	309-00-2	5.84	<5.84	ug/kg dry	
Heptachlor Epoxide	1024-57-3	5.84	<5.84	ug/kg dry	
trans-Chlordane	5103-74-2	5.84	<5.84	ug/kg dry	
cis-Chlordane	5103-71-9	5.84	<5.84	ug/kg dry	
4,4'-DDE	72-55-9	5.84	6.57	ug/kg dry	3.3/1700
Endosulfan I	959-98-8	5.84	<5.84	ug/kg dry	
Dieldrin	60-57-1	5.84	<5.84	ug/kg dry	
Endrin	72-20-8	5.84	<5.84	ug/kg dry	
4,4'-DDD	72-54-8	5.84	<5.84	ug/kg dry	
Endosulfan II	33213-65-9	5.84	<5.84	ug/kg dry	
4,4'-DDT	50-29-3	5.84	<5.84	ug/kg dry	
Endrin Aldehyde	7421-93-4	5.84	<5.84	ug/kg dry	
Methoxychlor	72-43-5	5.84	<5.84	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.84	<5.84	ug/kg dry	
Endrin Ketone	53494-70-5	5.84	<5.84	ug/kg dry	
Toxaphene	8001-35-2	117	<117	ug/kg dry	
Chlordane	12789-03-6	17.5	<17.5	ug/kg dry	

Date Prepared: 01/18/2013

Date Analyzed: 01/24/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8081B



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-03
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	58.4	<58.4	ug/kg dry	
Aroclor-1260	11096-82-5	58.4	<58.4	ug/kg dry	
Aroclor-1221	11104-28-2	58.4	<58.4	ug/kg dry	
Aroclor-1232	11141-16-5	58.4	<58.4	ug/kg dry	
Aroclor-1242	53469-21-9	58.4	<58.4	ug/kg dry	
Aroclor-1248	12672-29-6	58.4	<58.4	ug/kg dry	
Aroclor-1254	11097-69-1	58.4	<58.4	ug/kg dry	
Aroclor-1262	37324-23-5	58.4	<58.4	ug/kg dry	
Aroclor-1268	11100-14-4	58.4	<58.4	ug/kg dry	

Date Prepared: 01/18/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/18/2013

Analytical Method: EPA 8082 A



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"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 13:00	Sample ID: GP2/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-03
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/21/2013	EPA 6010 C	164	6210	mg/kg dry	3.E ✓
Antimony	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	✓
Arsenic	01/21/2013	EPA 6010 C	1.00	2.28	mg/kg dry	13/16
Barium	01/21/2013	EPA 6010 C	0.99	150	mg/kg dry	360/350
Beryllium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	✓
Cadmium	01/21/2013	EPA 6010 C	1.00	<1.00	mg/kg dry	✓
Calcium	01/21/2013	EPA 6010 C	819	37500	mg/kg dry	3.E ✓
Chromium	01/21/2013	EPA 6010 C	1.65	10.3	mg/kg dry	30/36
Cobalt	01/21/2013	EPA 6010 C	1.65	3.29	mg/kg dry	✓
Copper	01/21/2013	EPA 6010 C	1.65	34.9	mg/kg dry	110/270
Iron	01/21/2013	EPA 6010 C	164	9830	mg/kg dry	3.E ✓
Lead	01/21/2013	EPA 6010 C	8.19	451	mg/kg dry	3.E 63/400
Magnesium	01/21/2013	EPA 6010 C	8.19	8160	mg/kg dry	3.E ✓
Manganese	01/21/2013	EPA 6010 C	41.0	762	mg/kg dry	3.E ✓
Nickel	01/21/2013	EPA 6010 C	1.65	10.6	mg/kg dry	20/130
Potassium	01/21/2013	EPA 6010 C	8.19	969	mg/kg dry	3.E ✓
Selenium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	✓
Silver	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	✓
Sodium	01/21/2013	EPA 6010 C	8.19	635	mg/kg dry	✓
Thallium	01/21/2013	EPA 6010 C	1.65	2.02	mg/kg dry	✓
Vanadium	01/21/2013	EPA 6010 C	1.65	10.6	mg/kg dry	✓
Zinc	01/21/2013	EPA 6010 C	8.19	452	mg/kg dry	3.E 109/220

Date Prepared: 01/18/2013

Preparation Method: EPA 3050B

Date Analyzed: 01/21/2013

Analytical Method: EPA 6010 C

Mercury	01/23/2013	EPA 7471 B	0.02	0.13	mg/kg dry	0.13
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Date Prepared: 01/18/2013

Preparation Method: EPA 7471 B

Date Analyzed: 01/23/2013

Analytical Method: EPA 7471 B

Cyanide	01/22/2013	EPA 9014	0.12	<0.12	mg/kg dry	✓
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Date Prepared: 01/18/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/22/2013

Analytical Method: EPA 9014



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 13:30	Sample ID: GP2/S-2
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-04
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.76	<5.76	ug/kg dry	
Chloromethane	74-87-3	5.76	<5.76	ug/kg dry	
Vinyl chloride	75-01-4	5.76	<5.76	ug/kg dry	
Bromomethane	74-83-9	5.76	<5.76	ug/kg dry	
Chloroethane	75-00-3	5.76	<5.76	ug/kg dry	
Trichlorofluoromethane	75-69-4	5.76	<5.76	ug/kg dry	
Acetone	67-64-1	11.5	<11.5	ug/kg dry	
1,1-Dichloroethylene	75-35-4	5.76	<5.76	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.76	<5.76	ug/kg dry	
Methyl Acetate	79-20-9	5.76	<5.76	ug/kg dry	
Methylene Chloride	75-09-2	5.76	<5.76	ug/kg dry	
Carbon disulfide	75-15-0	5.76	<5.76	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	5.76	<5.76	ug/kg dry	
trans-1,2-Dichloroethylene	156-60-5	5.76	<5.76	ug/kg dry	
1,1-Dichloroethane	75-34-3	5.76	<5.76	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	11.5	<11.5	ug/kg dry	
cis-1,2-Dichloroethylene	156-59-2	5.76	<5.76	ug/kg dry	
Bromochloromethane	74-97-5	5.76	<5.76	ug/kg dry	
Chloroform	67-66-3	5.76	<5.76	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	5.76	<5.76	ug/kg dry	
1,2-Dichloroethane	107-06-2	5.76	<5.76	ug/kg dry	
Carbon Tetrachloride	56-23-5	5.76	<5.76	ug/kg dry	
Benzene	71-43-2	5.76	<5.76	ug/kg dry	
Trichloroethylene	79-01-6	5.76	<5.76	ug/kg dry	
1,2-Dichloropropane	78-87-5	5.76	<5.76	ug/kg dry	
1,4-Dioxane	123-91-1	57.6	<57.6	ug/kg dry	
Bromodichloromethane	75-27-4	5.76	<5.76	ug/kg dry	
Methyl Isobutyl Ketone	108-10-1	11.5	<11.5	ug/kg dry	
cis-1,3-Dichloropropylene	10061-01-5	5.76	<5.76	ug/kg dry	
Toluene	108-88-3	5.76	<5.76	ug/kg dry	
trans-1,3-Dichloropropylene	10061-02-6	5.76	<5.76	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	5.76	<5.76	ug/kg dry	



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Date (Time) Collected: 01/12/2013 13:30	Sample ID: GP2/S-2
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-04
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Ketone (2-Hexanone)	591-78-6	5.76	<5.76	ug/kg dry	
Dibromochloromethane	124-48-1	5.76	<5.76	ug/kg dry	
Tetrachloroethylene	127-18-4	5.76	<5.76	ug/kg dry	
1,2-Dibromoethane	106-93-4	5.76	<5.76	ug/kg dry	
Chlorobenzene	108-90-7	5.76	<5.76	ug/kg dry	
Ethylbenzene	100-41-4	5.76	<5.76	ug/kg dry	
m,p-Xylenes	108-38-3/106-42-3	11.5	<11.5	ug/kg dry	
Styrene	100-42-5	5.76	<5.76	ug/kg dry	
o-Xylene	95-47-6	5.76	<5.76	ug/kg dry	
Bromoform	75-25-2	5.76	<5.76	ug/kg dry	
1,1,2,2-Tetrachloroethane	79-34-5	5.76	<5.76	ug/kg dry	
Isopropylbenzene (Cumene)	98-82-8	5.76	<5.76	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	5.76	<5.76	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	5.76	<5.76	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	5.76	<5.76	ug/kg dry	
1,2-Dibromo-3-chloropropane	96-12-8	5.76	<5.76	ug/kg dry	
1,2,4-Trichlorobenzene	120-82-1	5.76	<5.76	ug/kg dry	
1,2,3-Trichlorobenzene	87-61-6	5.76	<5.76	ug/kg dry	
1-Iodo-2-methylundecane	073105-67-6	NA	14.6	ug/kg dry	5.K
3-Eicosene, (E)-	074685-33-9	NA	4.97	ug/kg dry	5.K
Bicyclo[2.2.1]heptane, 2-methyl-, exo-	000872-78-6	NA	5.60	ug/kg dry	5.K
Decane	000124-18-5	NA	38.6	ug/kg dry	5.K
Decane, 3-methyl-	013151-34-3	NA	7.56	ug/kg dry	5.K
Decane, 4-methyl-	002847-72-5	NA	12.9	ug/kg dry	5.K
Decane, 5-methyl-	013151-35-4	NA	6.63	ug/kg dry	5.K
Hexane, 2,4-dimethyl-	000589-43-5	NA	8.06	ug/kg dry	5.K
Nonane, 3-methyl-	005911-04-6	NA	12.1	ug/kg dry	5.K
Octane, 2,6-dimethyl-	002051-30-1	NA	4.52	ug/kg dry	5.K
Octane, 2-methyl-	003221-61-2	NA	4.74	ug/kg dry	5.K
trans-Decalin, 2-methyl-	1000152	NA	7.24	ug/kg dry	5.K
Undecane	001120-21-4	NA	44.9	ug/kg dry	5.K



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Date (Time) Collected: 01/12/2013 13:30	Sample ID: GP2/S-2
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-04
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
unknown hydrocarbon (01)	NA	NA	7.33	ug/kg dry	5.K
unknown hydrocarbon (02)	NA	NA	4.72	ug/kg dry	5.K
unknown hydrocarbon (03)	NA	NA	4.70	ug/kg dry	5.K

Date Prepared: 01/18/2013

Date Analyzed: 01/18/2013

Preparation Method: EPA 5030C Modified

Analytical Method: EPA 8260 C



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Date (Time) Collected: 01/12/2013 13:30	Sample ID: GP2/S-2
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-04
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	761	<761	ug/kg dry	3.A
Acetophenone	989-86-2	1040	<1040	ug/kg dry	3.A
Phenol	108-95-2	461	<461	ug/kg dry	3.A
2-Chlorophenol	95-57-8	461	<461	ug/kg dry	3.A
Caprolactam	105-60-2	1730	<1730	ug/kg dry	3.A
Bis(2-Chloroethyl)ether	111-44-4	461	<461	ug/kg dry	3.A
1,1-Biphenyl	92-52-4	1380	<1380	ug/kg dry	3.A
1,2-Diphenylhydrazine	122-66-7	761	<761	ug/kg dry	3.A
2-Methylphenol	95-48-7	461	<461	ug/kg dry	3.A
Atrazine	1912-24-9	761	<761	ug/kg dry	3.A
Bis(2-chloroisopropyl)ether	39638-32-9	461	<461	ug/kg dry	3.A
Hexachloroethane	67-72-1	461	<461	ug/kg dry	3.A
3/4-Methylphenol	108-39-4/106-44-5	461	<461	ug/kg dry	3.A
N-Nitroso-di-n-propylamine	621-64-7	461	<461	ug/kg dry	3.A
Nitrobenzene	98-95-3	461	<461	ug/kg dry	3.A
Isophorone	78-59-1	461	<461	ug/kg dry	3.A
2-Nitrophenol	88-75-5	461	<461	ug/kg dry	3.A
2,4-Dimethylphenol	105-67-9	461	<461	ug/kg dry	3.A
bis(2-Chloroethoxy)methane	111-91-1	461	<461	ug/kg dry	3.A
2,4-Dichlorophenol	120-83-2	461	<461	ug/kg dry	3.A
Naphthalene	91-20-3	461	<461	ug/kg dry	3.A
4-Chloroaniline	106-47-8	461	<461	ug/kg dry	3.A
Hexachlorobutadiene	87-68-3	461	<461	ug/kg dry	3.A
4-Chloro-3-methylphenol	59-50-7	461	<461	ug/kg dry	3.A
2-Methylnaphthalene	91-57-6	461	<461	ug/kg dry	3.A
Hexachlorocyclopentadiene	77-47-4	461	<461	ug/kg dry	3.A
2,4,6-Trichlorophenol	88-06-2	461	<461	ug/kg dry	3.A
2,4,5-Trichlorophenol	95-95-4	461	<461	ug/kg dry	3.A
2-Chloronaphthalene	91-58-7	461	<461	ug/kg dry	3.A
2-Nitroaniline	88-74-4	461	<461	ug/kg dry	3.A
Dimethyl phthalate	131-11-3	461	<461	ug/kg dry	3.A
Acenaphthylene	208-96-8	461	<461	ug/kg dry	3.A



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 13:30	Sample ID: GP2/S-2
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-04
Matrix: Soil	ELAP: #11693

Semivolatle Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	461	<461	ug/kg dry	3.A
3-Nitroaniline	99-09-2	461	<461	ug/kg dry	3.A
Acenaphthene	83-32-9	461	<461	ug/kg dry	3.A
2,4-Dinitrophenol	51-28-5	1560	<1560	ug/kg dry	3.A
Dibenzofuran	132-64-9	461	<461	ug/kg dry	3.A
4-Nitrophenol	100-02-7	1560	<1560	ug/kg dry	3.A
2,4-Dinitrotoluene	121-14-2	461	<461	ug/kg dry	3.A
Fluorene	86-73-7	461	<461	ug/kg dry	3.A
Diethyl phthalate	84-66-2	461	<461	ug/kg dry	3.A
4-Chlorophenyl phenyl ether	7005-72-3	461	<461	ug/kg dry	3.A
4-Nitroaniline	100-01-6	461	<461	ug/kg dry	3.A
4,6-Dinitro-2-methylphenol	534-52-1	1560	<1560	ug/kg dry	3.A
N-Nitrosodiphenylamine	86-30-6	461	<461	ug/kg dry	3.A
4-Bromophenyl phenyl ether	101-55-3	461	<461	ug/kg dry	3.A
Hexachlorobenzene	118-74-1	461	<461	ug/kg dry	3.A
Pentachlorophenol	87-86-5	461	<461	ug/kg dry	3.A
Phenanthrene	85-01-8	461	<461	ug/kg dry	3.A
Anthracene	120-12-7	461	<461	ug/kg dry	3.A
Carbazole	86-74-8	461	<461	ug/kg dry	3.A
Di-n-butyl phthalate	84-74-2	461	<461	ug/kg dry	3.A
Fluoranthene	206-44-0	461	<461	ug/kg dry	3.A
Pyrene	129-00-0	461	<461	ug/kg dry	3.A
Butyl benzyl phthalate	85-68-7	461	<461	ug/kg dry	3.A
Benzo(a)anthracene	56-55-3	461	<461	ug/kg dry	3.A
Chrysene	218-01-9	461	<461	ug/kg dry	3.A
3,3'-Dichlorobenzidine	91-94-1	461	<461	ug/kg dry	3.A
Bis(2-Ethylhexyl)phthalate	117-81-7	461	<461	ug/kg dry	3.A
Di-n-octyl phthalate	117-84-0	461	<461	ug/kg dry	3.A
Benzo(b)fluoranthene	205-99-2	461	<461	ug/kg dry	3.A
Benzo(k)fluoranthene	207-08-9	461	<461	ug/kg dry	3.A
Benzo(a)pyrene	50-32-8	461	<461	ug/kg dry	3.A



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Date (Time) Collected: 01/12/2013 13:30	Sample ID: GP2/S-2
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-04
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	461	<461	ug/kg dry	3.A
Dibenzo(a,h)anthracene	53-70-3	461	<461	ug/kg dry	3.A
Benzo(g,h,i)perylene	191-24-2	461	<461	ug/kg dry	3.A

Date Prepared: 01/17/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/21/2013

Analytical Method: EPA 8270 D



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 13:30	Sample ID: GP2/S-2
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-04
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	5.76	<5.76	ug/kg dry	
gamma-BHC	58-89-9	5.76	<5.76	ug/kg dry	
beta-BHC	319-85-7	5.76	<5.76	ug/kg dry	
delta-BHC	319-86-8	5.76	<5.76	ug/kg dry	
Heptachlor	76-44-8	5.76	<5.76	ug/kg dry	
Aldrin	309-00-2	5.76	<5.76	ug/kg dry	
Heptachlor Epoxide	1024-57-3	5.76	<5.76	ug/kg dry	
trans-Chlordane	5103-74-2	5.76	<5.76	ug/kg dry	
cis-Chlordane	5103-71-9	5.76	<5.76	ug/kg dry	
4,4'-DDE	72-55-9	5.76	<5.76	ug/kg dry	
Endosulfan I	959-98-8	5.76	<5.76	ug/kg dry	
Dieldrin	60-57-1	5.76	<5.76	ug/kg dry	
Endrin	72-20-8	5.76	<5.76	ug/kg dry	
4,4'-DDD	72-54-8	5.76	<5.76	ug/kg dry	
Endosulfan II	33213-65-9	5.76	<5.76	ug/kg dry	
4,4'-DDT	50-29-3	5.76	<5.76	ug/kg dry	
Endrin Aldehyde	7421-93-4	5.76	<5.76	ug/kg dry	
Methoxychlor	72-43-5	5.76	<5.76	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.76	<5.76	ug/kg dry	
Endrin Ketone	53494-70-5	5.76	<5.76	ug/kg dry	
Toxaphene	8001-35-2	115	<115	ug/kg dry	
Chlordane	12789-03-6	17.3	<17.3	ug/kg dry	

Date Prepared: 01/18/2013

Date Analyzed: 01/24/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8081B



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Date (Time) Collected: 01/12/2013 13:30	Sample ID: GP2/S-2
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-04
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	57.6	<57.6	ug/kg dry	
Aroclor-1260	11096-82-5	57.6	<57.6	ug/kg dry	
Aroclor-1221	11104-28-2	57.6	<57.6	ug/kg dry	
Aroclor-1232	11141-16-5	57.6	<57.6	ug/kg dry	
Aroclor-1242	53469-21-9	57.6	<57.6	ug/kg dry	
Aroclor-1248	12672-29-6	57.6	<57.6	ug/kg dry	
Aroclor-1254	11097-69-1	57.6	<57.6	ug/kg dry	
Aroclor-1262	37324-23-5	57.6	<57.6	ug/kg dry	
Aroclor-1268	11100-14-4	57.6	<57.6	ug/kg dry	

Date Prepared: 01/18/2013

Date Analyzed: 01/18/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8082 A



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-04
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/21/2013	EPA 6010 C	161	7160	mg/kg dry	3.E
Antimony	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Arsenic	01/21/2013	EPA 6010 C	1.00	2.01	mg/kg dry	1.7/1.6
Barium	01/21/2013	EPA 6010 C	0.97	99.9	mg/kg dry	2.50/2.50
Beryllium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Cadmium	01/21/2013	EPA 6010 C	1.00	<1.00	mg/kg dry	
Calcium	01/21/2013	EPA 6010 C	804	53900	mg/kg dry	3.E
Chromium	01/21/2013	EPA 6010 C	1.65	11.4	mg/kg dry	2.0/3.6
Cobalt	01/21/2013	EPA 6010 C	1.65	3.61	mg/kg dry	
Copper	01/21/2013	EPA 6010 C	1.65	10.8	mg/kg dry	5.0/2.0
Iron	01/21/2013	EPA 6010 C	161	10300	mg/kg dry	3.E
Lead	01/21/2013	EPA 6010 C	1.65	78.9	mg/kg dry	6.3/4.0
Magnesium	01/21/2013	EPA 6010 C	161	19300	mg/kg dry	3.E
Manganese	01/21/2013	EPA 6010 C	80.4	645	mg/kg dry	3.E
Nickel	01/21/2013	EPA 6010 C	1.65	10.6	mg/kg dry	3.0/1.30
Potassium	01/21/2013	EPA 6010 C	16.1	1490	mg/kg dry	3.E
Selenium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Silver	01/21/2013	EPA 6010 C	8.04	403	mg/kg dry	
Sodium	01/21/2013	EPA 6010 C	1.65	3.30	mg/kg dry	
Thallium	01/21/2013	EPA 6010 C	1.65	16.0	mg/kg dry	
Vanadium	01/21/2013	EPA 6010 C	1.65	79.1	mg/kg dry	10.0/2.200
Zinc	01/21/2013	EPA 6010 C	1.65	79.1	mg/kg dry	

Date Prepared: 01/18/2013

Preparation Method: EPA 3050B

Date Analyzed: 01/21/2013

Analytical Method: EPA 6010 C

Mercury	01/23/2013	EPA 7471 B	0.02	0.26	mg/kg dry	0.18/0.73
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Date Prepared: 01/18/2013

Preparation Method: EPA 7471 B

Date Analyzed: 01/23/2013

Analytical Method: EPA 7471 B

Cyanide	01/22/2013	EPA 9014	0.12	<0.12	mg/kg dry	
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Date Prepared: 01/18/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/22/2013

Analytical Method: EPA 9014



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/15/2013 10:00	Sample ID: GP3/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-05
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.59	<5.59	ug/kg dry	
Chloromethane	74-87-3	5.59	<5.59	ug/kg dry	
Vinyl chloride	75-01-4	5.59	<5.59	ug/kg dry	
Bromomethane	74-83-9	5.59	<5.59	ug/kg dry	
Chloroethane	75-00-3	5.59	<5.59	ug/kg dry	
Trichlorofluoromethane	75-69-4	5.59	<5.59	ug/kg dry	
Acetone	67-64-1	11.2	<11.2	ug/kg dry	
1,1-Dichloroethylene	75-35-4	5.59	<5.59	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.59	<5.59	ug/kg dry	
Methyl Acetate	79-20-9	5.59	<5.59	ug/kg dry	
Methylene Chloride	75-09-2	5.59	<5.59	ug/kg dry	
Carbon disulfide	75-15-0	5.59	<5.59	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	5.59	<5.59	ug/kg dry	
trans-1,2-Dichloroethylene	156-60-5	5.59	<5.59	ug/kg dry	
1,1-Dichloroethane	75-34-3	5.59	<5.59	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	11.2	<11.2	ug/kg dry	
cis-1,2-Dichloroethylene	156-59-2	5.59	<5.59	ug/kg dry	
Bromochloromethane	74-97-5	5.59	<5.59	ug/kg dry	
Chloroform	67-66-3	5.59	<5.59	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	5.59	<5.59	ug/kg dry	
1,2-Dichloroethane	107-06-2	5.59	<5.59	ug/kg dry	
Carbon Tetrachloride	56-23-5	5.59	<5.59	ug/kg dry	
Benzene	71-43-2	5.59	<5.59	ug/kg dry	
Trichloroethylene	79-01-6	5.59	<5.59	ug/kg dry	
1,2-Dichloropropane	78-87-5	5.59	<5.59	ug/kg dry	
1,4-Dioxane	123-91-1	55.9	<55.9	ug/kg dry	
Bromodichloromethane	75-27-4	5.59	<5.59	ug/kg dry	
Methyl Isobutyl Ketone	108-10-1	11.2	<11.2	ug/kg dry	
cis-1,3-Dichloropropylene	10061-01-5	5.59	<5.59	ug/kg dry	
Toluene	108-88-3	5.59	<5.59	ug/kg dry	
trans-1,3-Dichloropropylene	10061-02-6	5.59	<5.59	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	5.59	<5.59	ug/kg dry	



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-05
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Ketone (2-Hexanone)	591-78-6	5.59	<5.59	ug/kg dry	
Dibromochloromethane	124-48-1	5.59	<5.59	ug/kg dry	
Tetrachloroethylene	127-18-4	5.59	<5.59	ug/kg dry	
1,2-Dibromoethane	106-93-4	5.59	<5.59	ug/kg dry	
Chlorobenzene	108-90-7	28.0	<28.0	ug/kg dry	3.A
Ethylbenzene	100-41-4	28.0	<28.0	ug/kg dry	3.A
m,p-Xylenes	108-38-3/106-42-3	55.9	<55.9	ug/kg dry	3.A
Styrene	100-42-5	28.0	<28.0	ug/kg dry	3.A
o-Xylene	95-47-6	28.0	<28.0	ug/kg dry	3.A
Bromoform	75-25-2	28.0	<28.0	ug/kg dry	3.A
1,1,2,2-Tetrachloroethane	79-34-5	28.0	<28.0	ug/kg dry	3.A
Isopropylbenzene (Cumene)	98-82-8	28.0	<28.0	ug/kg dry	3.A
1,3-Dichlorobenzene	541-73-1	55.9	<55.9	ug/kg dry	3.A
1,4-Dichlorobenzene	106-46-7	55.9	<55.9	ug/kg dry	3.A
1,2-Dichlorobenzene	95-50-1	55.9	<55.9	ug/kg dry	3.A
1,2-Dibromo-3-chloropropane	96-12-8	55.9	<55.9	ug/kg dry	3.A
1,2,4-Trichlorobenzene	120-82-1	55.9	<55.9	ug/kg dry	3.A
1,2,3-Trichlorobenzene	87-61-6	55.9	<55.9	ug/kg dry	3.A

Date Prepared: 01/18/2013

Date Analyzed: 01/21/2013

Preparation Method: EPA 5030C Modified

Analytical Method: EPA 8260 C



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Date (Time) Collected: 01/15/2013 10:00	Sample ID: GP3/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-05
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	739	<739	ug/kg dry	3.A
Acetophenone	989-86-2	1010	<1010	ug/kg dry	3.A
Phenol	108-95-2	448	<448	ug/kg dry	3.A
2-Chlorophenol	95-57-8	448	<448	ug/kg dry	3.A
Caprolactam	105-60-2	1680	<1680	ug/kg dry	3.A
Bis(2-Chloroethyl)ether	111-44-4	448	<448	ug/kg dry	3.A
1,1-Biphenyl	92-52-4	1340	<1340	ug/kg dry	3.A
1,2-Diphenylhydrazine	122-66-7	739	<739	ug/kg dry	3.A
2-Methylphenol	95-48-7	448	<448	ug/kg dry	3.A
Atrazine	1912-24-9	739	<739	ug/kg dry	3.A
Bis(2-chloroisopropyl)ether	39638-32-9	448	<448	ug/kg dry	3.A
Hexachloroethane	67-72-1	448	<448	ug/kg dry	3.A
3/4-Methylphenol	108-39-4/106-44-5	448	<448	ug/kg dry	3.A
N-Nitroso-di-n-propylamine	621-64-7	448	<448	ug/kg dry	3.A
Nitrobenzene	98-95-3	448	<448	ug/kg dry	3.A
Isophorone	78-59-1	448	<448	ug/kg dry	3.A
2-Nitrophenol	88-75-5	448	<448	ug/kg dry	3.A
2,4-Dimethylphenol	105-67-9	448	<448	ug/kg dry	3.A
bis(2-Chloroethoxy)methane	111-91-1	448	<448	ug/kg dry	3.A
2,4-Dichlorophenol	120-83-2	448	<448	ug/kg dry	3.A
Naphthalene	91-20-3	448	<448	ug/kg dry	3.A
4-Chloroaniline	106-47-8	448	<448	ug/kg dry	3.A
Hexachlorobutadiene	87-68-3	448	<448	ug/kg dry	3.A
4-Chloro-3-methylphenol	59-50-7	448	<448	ug/kg dry	3.A
2-Methylnaphthalene	91-57-6	448	<448	ug/kg dry	3.A
Hexachlorocyclopentadiene	77-47-4	448	<448	ug/kg dry	3.A
2,4,6-Trichlorophenol	88-06-2	448	<448	ug/kg dry	3.A
2,4,5-Trichlorophenol	95-95-4	448	<448	ug/kg dry	3.A
2-Chloronaphthalene	91-58-7	448	<448	ug/kg dry	3.A
2-Nitroaniline	88-74-4	448	<448	ug/kg dry	3.A
Dimethyl phthalate	131-11-3	448	<448	ug/kg dry	3.A
Acenaphthylene	208-96-8	448	<448	ug/kg dry	3.A



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Date (Time) Collected: 01/15/2013 10:00	Sample ID: GP3/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-05
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	448	<448	ug/kg dry	3.A
3-Nitroaniline	99-09-2	448	<448	ug/kg dry	3.A
Acenaphthene	83-32-9	448	<448	ug/kg dry	3.A
2,4-Dinitrophenol	51-28-5	1510	<1510	ug/kg dry	3.A
Dibenzofuran	132-64-9	448	<448	ug/kg dry	3.A
4-Nitrophenol	100-02-7	1510	<1510	ug/kg dry	3.A
2,4-Dinitrotoluene	121-14-2	448	<448	ug/kg dry	3.A
Fluorene	86-73-7	448	<448	ug/kg dry	3.A
Diethyl phthalate	84-66-2	448	<448	ug/kg dry	3.A
4-Chlorophenyl phenyl ether	7005-72-3	448	<448	ug/kg dry	3.A
4-Nitroaniline	100-01-6	448	<448	ug/kg dry	3.A
4,6-Dinitro-2-methylphenol	534-52-1	1510	<1510	ug/kg dry	3.A
N-Nitrosodiphenylamine	86-30-6	448	<448	ug/kg dry	3.A
4-Bromophenyl phenyl ether	101-55-3	448	<448	ug/kg dry	3.A
Hexachlorobenzene	118-74-1	448	<448	ug/kg dry	3.A
Pentachlorophenol	87-86-5	448	<448	ug/kg dry	3.A
Phenanthrene	85-01-8	448	1010	ug/kg dry	3.E
Anthracene	120-12-7	448	<448	ug/kg dry	3.A
Carbazole	86-74-8	448	<448	ug/kg dry	3.A
Di-n-butyl phthalate	84-74-2	448	<448	ug/kg dry	3.A
Fluoranthene	206-44-0	448	2280	ug/kg dry	3.E
Pyrene	129-00-0	448	1920	ug/kg dry	3.E
Butyl benzyl phthalate	85-68-7	448	<448	ug/kg dry	3.A
Benzo(a)anthracene	56-55-3	448	1130	ug/kg dry	
Chrysene	218-01-9	448	1340	ug/kg dry	3.E
3,3'-Dichlorobenzidine	91-94-1	448	<448	ug/kg dry	3.A
Bis(2-Ethylhexyl)phthalate	117-81-7	448	<448	ug/kg dry	3.A
Di-n-octyl phthalate	117-84-0	448	<448	ug/kg dry	3.A
Benzo(b)fluoranthene	205-99-2	448	1720	ug/kg dry	3.E
Benzo(k)fluoranthene	207-08-9	448	<448	ug/kg dry	3.A
Benzo(a)pyrene	50-32-8	448	1300	ug/kg dry	3.E

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look-look
look-look1K/1K
1K/1K

1K/1K

1K/1K



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Date (Time) Collected: 01/15/2013 10:00	Sample ID: GP3/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-05
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	448	955	ug/kg dry	3.E
Dibenzo(a,h)anthracene	53-70-3	448	448	ug/kg dry	3.A
Benzo(g,h,i)perylene	191-24-2	448	888	ug/kg dry	3.E
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	62800	ug/kg dry	

500/500

Date Prepared: 01/17/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/21/2013

Analytical Method: EPA 8270 D



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Date (Time) Collected: 01/15/2013 10:00	Sample ID: GP3/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-05
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	5.59	<5.59	ug/kg dry	
gamma-BHC	58-89-9	5.59	<5.59	ug/kg dry	
beta-BHC	319-85-7	5.59	<5.59	ug/kg dry	
delta-BHC	319-86-8	5.59	<5.59	ug/kg dry	
Heptachlor	76-44-8	5.59	<5.59	ug/kg dry	
Aldrin	309-00-2	5.59	<5.59	ug/kg dry	
Heptachlor Epoxide	1024-57-3	5.59	<5.59	ug/kg dry	
trans-Chlordane	5103-74-2	5.59	6.06	ug/kg dry	94/910
cis-Chlordane	5103-71-9	5.59	<5.59	ug/kg dry	
4,4'-DDE	72-55-9	5.59	<5.59	ug/kg dry	
Endosulfan I	959-98-8	5.59	<5.59	ug/kg dry	
Dieldrin	60-57-1	5.59	<5.59	ug/kg dry	
Endrin	72-20-8	5.59	<5.59	ug/kg dry	
4,4'-DDD	72-54-8	5.59	<5.59	ug/kg dry	
Endosulfan II	33213-65-9	5.59	<5.59	ug/kg dry	
4,4'-DDT	50-29-3	5.59	30.0	ug/kg dry	93/1700
Endrin Aldehyde	7421-93-4	5.59	<5.59	ug/kg dry	
Methoxychlor	72-43-5	5.59	<5.59	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.59	<5.59	ug/kg dry	
Endrin Ketone	53494-70-5	5.59	<5.59	ug/kg dry	
Toxaphene	8001-35-2	112	<112	ug/kg dry	
Chlordane	12789-03-6	16.8	<16.8	ug/kg dry	

Date Prepared: 01/18/2013
 Date Analyzed: 01/24/2013

Preparation Method: EPA 3545 A
 Analytical Method: EPA 8081B



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Date (Time) Collected: 01/15/2013 10:00	Sample ID: GP3/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-05
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	55.9	<55.9	ug/kg dry	
Aroclor-1260	11096-82-5	55.9	<55.9	ug/kg dry	
Aroclor-1221	11104-28-2	55.9	<55.9	ug/kg dry	
Aroclor-1232	11141-16-5	55.9	<55.9	ug/kg dry	
Aroclor-1242	53469-21-9	55.9	<55.9	ug/kg dry	
Aroclor-1248	12672-29-6	55.9	<55.9	ug/kg dry	
Aroclor-1254	11097-69-1	55.9	<55.9	ug/kg dry	
Aroclor-1262	37324-23-5	55.9	<55.9	ug/kg dry	
Aroclor-1268	11100-14-4	55.9	<55.9	ug/kg dry	

Date Prepared: 01/18/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/18/2013

Analytical Method: EPA 8082 A



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Date (Time) Collected: 01/15/2013 10:00	Sample ID: GP3/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-05
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/21/2013	EPA 6010 C	145	6630	mg/kg dry	3.E
Antimony	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Arsenic	01/21/2013	EPA 6010 C	1.00	5.89	mg/kg dry	13/16
Barium	01/21/2013	EPA 6010 C	1.75	182	mg/kg dry	3.E 350/350
Beryllium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Cadmium	01/21/2013	EPA 6010 C	1.00	<1.00	mg/kg dry	
Calcium	01/21/2013	EPA 6010 C	723	16900	mg/kg dry	3.E
Chromium	01/21/2013	EPA 6010 C	1.65	28.7	mg/kg dry	30/36
Cobalt	01/21/2013	EPA 6010 C	1.65	8.88	mg/kg dry	
Copper	01/21/2013	EPA 6010 C	1.65	147	mg/kg dry	50/27
Iron	01/21/2013	EPA 6010 C	145	17100	mg/kg dry	3.E
Lead	01/21/2013	EPA 6010 C	2.89	311	mg/kg dry	3.E 63/400
Magnesium	01/21/2013	EPA 6010 C	14.5	4970	mg/kg dry	3.E
Manganese	01/21/2013	EPA 6010 C	14.5	227	mg/kg dry	3.E
Nickel	01/21/2013	EPA 6010 C	1.65	21.2	mg/kg dry	30/130
Potassium	01/21/2013	EPA 6010 C	2.89	867	mg/kg dry	3.E
Selenium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Silver	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Sodium	01/21/2013	EPA 6010 C	7.23	504	mg/kg dry	
Thallium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Vanadium	01/21/2013	EPA 6010 C	1.65	22.9	mg/kg dry	
Zinc	01/21/2013	EPA 6010 C	14.5	1350	mg/kg dry	3.E 109/2200

Date Prepared: 01/18/2013

Preparation Method: EPA 3050B

Date Analyzed: 01/21/2013

Analytical Method: EPA 6010 C

Mercury	01/23/2013	EPA 7471 B	0.02	0.18	mg/kg dry	0.08/0.73
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Date Prepared: 01/18/2013

Preparation Method: EPA 7471 B

Date Analyzed: 01/23/2013

Analytical Method: EPA 7471 B

Cyanide	01/22/2013	EPA 9014	0.11	0.24	mg/kg dry	
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Date Prepared: 01/18/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/22/2013

Analytical Method: EPA 9014



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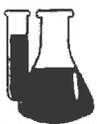
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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/15/2013 10:30	Sample ID: GP3/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.52	<5.52	ug/kg dry	
Chloromethane	74-87-3	5.52	<5.52	ug/kg dry	
Vinyl chloride	75-01-4	5.52	<5.52	ug/kg dry	
Bromomethane	74-83-9	5.52	<5.52	ug/kg dry	
Chloroethane	75-00-3	5.52	<5.52	ug/kg dry	
Trichlorofluoromethane	75-69-4	5.52	<5.52	ug/kg dry	
Acetone	67-64-1	11.0	<11.0	ug/kg dry	
1,1-Dichloroethylene	75-35-4	5.52	<5.52	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.52	<5.52	ug/kg dry	
Methyl Acetate	79-20-9	5.52	<5.52	ug/kg dry	
Methylene Chloride	75-09-2	5.52	<5.52	ug/kg dry	
Carbon disulfide	75-15-0	5.52	<5.52	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	5.52	<5.52	ug/kg dry	
trans-1,2-Dichloroethylene	156-60-5	5.52	<5.52	ug/kg dry	
1,1-Dichloroethane	75-34-3	5.52	<5.52	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	11.0	<11.0	ug/kg dry	
cis-1,2-Dichloroethylene	156-59-2	5.52	<5.52	ug/kg dry	
Bromochloromethane	74-97-5	5.52	<5.52	ug/kg dry	
Chloroform	67-66-3	5.52	<5.52	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	5.52	<5.52	ug/kg dry	
1,2-Dichloroethane	107-06-2	5.52	<5.52	ug/kg dry	
Carbon Tetrachloride	56-23-5	5.52	<5.52	ug/kg dry	
Benzene	71-43-2	5.52	<5.52	ug/kg dry	
Trichloroethylene	79-01-6	5.52	<5.52	ug/kg dry	
1,2-Dichloropropane	78-87-5	5.52	<5.52	ug/kg dry	
1,4-Dioxane	123-91-1	55.2	<55.2	ug/kg dry	
Bromodichloromethane	75-27-4	5.52	<5.52	ug/kg dry	
Methyl Isobutyl Ketone	108-10-1	11.0	<11.0	ug/kg dry	
cis-1,3-Dichloropropylene	10061-01-5	5.52	<5.52	ug/kg dry	
Toluene	108-88-3	5.52	<5.52	ug/kg dry	
trans-1,3-Dichloropropylene	10061-02-6	5.52	<5.52	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	5.52	<5.52	ug/kg dry	



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/15/2013 10:30	Sample ID: GP3/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Kelone (2-Hexanone)	591-78-6	5.52	<5.52	ug/kg dry	
Dibromochloromethane	124-48-1	5.52	<5.52	ug/kg dry	
Tetrachloroethylene	127-18-4	5.52	<5.52	ug/kg dry	
1,2-Dibromoethane	106-93-4	5.52	<5.52	ug/kg dry	
Chlorobenzene	108-90-7	5.52	<5.52	ug/kg dry	
Ethylbenzene	100-41-4	5.52	<5.52	ug/kg dry	
m,p-Xylenes	108-38-3/106-42-3	11.0	<11.0	ug/kg dry	
Styrene	100-42-5	5.52	<5.52	ug/kg dry	
o-Xylene	95-47-6	5.52	<5.52	ug/kg dry	
Bromoform	75-25-2	5.52	<5.52	ug/kg dry	
1,1,2,2-Tetrachloroethane	79-34-5	5.52	<5.52	ug/kg dry	
Isopropylbenzene (Cumene)	98-82-8	5.52	<5.52	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	5.52	<5.52	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	5.52	<5.52	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	5.52	<5.52	ug/kg dry	
1,2-Dibromo-3-chloropropane	96-12-8	5.52	<5.52	ug/kg dry	
1,2,4-Trichlorobenzene	120-82-1	5.52	<5.52	ug/kg dry	
1,2,3-Trichlorobenzene	87-61-6	5.52	<5.52	ug/kg dry	

Date Prepared: 01/18/2013

Date Analyzed: 01/18/2013

Preparation Method: EPA 5030C Modified

Analytical Method: EPA 8260 C



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Date (Time) Collected: 01/15/2013 10:30	Sample ID: GP3/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	72.9	<72.9	ug/kg dry	
Acetophenone	989-86-2	99.4	<99.4	ug/kg dry	
Phenol	108-95-2	44.2	<44.2	ug/kg dry	
2-Chlorophenol	95-57-8	44.2	<44.2	ug/kg dry	
Caprolactam	105-60-2	166	<166	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	44.2	<44.2	ug/kg dry	
1,1-Biphenyl	92-52-4	133	<133	ug/kg dry	
1,2-Diphenylhydrazine	122-66-7	72.9	<72.9	ug/kg dry	
2-Methylphenol	95-48-7	44.2	<44.2	ug/kg dry	
Atrazine	1912-24-9	72.9	<72.9	ug/kg dry	
Bis(2-chloroisopropyl)ether	39638-32-9	44.2	<44.2	ug/kg dry	
Hexachloroethane	67-72-1	44.2	<44.2	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	44.2	<44.2	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	44.2	<44.2	ug/kg dry	
Nitrobenzene	98-95-3	44.2	<44.2	ug/kg dry	
Isophorone	78-59-1	44.2	<44.2	ug/kg dry	
2-Nitrophenol	88-75-5	44.2	<44.2	ug/kg dry	
2,4-Dimethylphenol	105-67-9	44.2	<44.2	ug/kg dry	
bis(2-Chloroethoxy)methane	111-91-1	44.2	<44.2	ug/kg dry	
2,4-Dichlorophenol	120-83-2	44.2	<44.2	ug/kg dry	
Naphthalene	91-20-3	44.2	<44.2	ug/kg dry	
4-Chloroaniline	106-47-8	44.2	<44.2	ug/kg dry	
Hexachlorobutadiene	87-68-3	44.2	<44.2	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	44.2	<44.2	ug/kg dry	
2-Methylnaphthalene	91-57-6	44.2	<44.2	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	44.2	<44.2	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	44.2	<44.2	ug/kg dry	
2,4,5-Trichlorophenol	95-95-4	44.2	<44.2	ug/kg dry	
2-Chloronaphthalene	91-58-7	44.2	<44.2	ug/kg dry	
2-Nitroaniline	88-74-4	44.2	<44.2	ug/kg dry	
Dimethyl phthalate	131-11-3	44.2	<44.2	ug/kg dry	
Acenaphthylene	208-96-8	44.2	<44.2	ug/kg dry	



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Date (Time) Collected: 01/15/2013 10:30	Sample ID: GP3/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

Semivolatle Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	44.2	<44.2	ug/kg dry	
3-Nitroaniline	99-09-2	44.2	<44.2	ug/kg dry	
Acenaphthene	83-32-9	44.2	<44.2	ug/kg dry	
2,4-Dinitrophenol	51-28-5	149	<149	ug/kg dry	
Dibenzofuran	132-64-9	44.2	<44.2	ug/kg dry	
4-Nitrophenol	100-02-7	149	<149	ug/kg dry	
2,4-Dinitrotoluene	121-14-2	44.2	<44.2	ug/kg dry	
Fluorene	86-73-7	44.2	<44.2	ug/kg dry	
Diethyl phthalate	84-66-2	44.2	<44.2	ug/kg dry	
4-Chlorophenyl phenyl ether	7005-72-3	44.2	<44.2	ug/kg dry	
4-Nitroaniline	100-01-6	44.2	<44.2	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	149	<149	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	44.2	<44.2	ug/kg dry	
4-Bromophenyl phenyl ether	101-55-3	44.2	<44.2	ug/kg dry	
Hexachlorobenzene	118-74-1	44.2	<44.2	ug/kg dry	
Pentachlorophenol	87-86-5	44.2	<44.2	ug/kg dry	
Phenanthrene	85-01-8	44.2	111	ug/kg dry	100k/100k
Anthracene	120-12-7	44.2	<44.2	ug/kg dry	
Carbazole	86-74-8	44.2	<44.2	ug/kg dry	
Di-n-butyl phthalate	84-74-2	44.2	<44.2	ug/kg dry	
Fluoranthene	206-44-0	44.2	294	ug/kg dry	100k/100k
Pyrene	129-00-0	44.2	241	ug/kg dry	100k/100k
Butyl benzyl phthalate	85-68-7	44.2	<44.2	ug/kg dry	
Benzo(a)anthracene	56-55-3	44.2	109	ug/kg dry	1k/1k
Chrysene	218-01-9	44.2	179	ug/kg dry	1k/1k
3,3'-Dichlorobenzidine	91-94-1	44.2	<44.2	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	44.2	<44.2	ug/kg dry	
Di-n-octyl phthalate	117-84-0	44.2	<44.2	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	44.2	214	ug/kg dry	1k/1k
Benzo(k)fluoranthene	207-08-9	44.2	69.2	ug/kg dry	100k/1k
Benzo(a)pyrene	50-32-8	44.2	127	ug/kg dry	1k-1k



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Date (Time) Collected: 01/15/2013 10:30	Sample ID: GP3/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	44.2	107	ug/kg dry	SP/ro
Dibenzo(a,h)anthracene	53-70-3	44.2	<44.2	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	44.2	116	ug/kg dry	
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	109000	ug/kg dry	
n-Hexadecanoic acid	000057-10-3	NA	222	ug/kg dry	

Date Prepared: 01/17/2013

Date Analyzed: 01/21/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8270 D



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/15/2013 10:30	Sample ID: GP3/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	5.52	<5.52	ug/kg dry	
gamma-BHC	58-89-9	5.52	<5.52	ug/kg dry	
beta-BHC	319-85-7	5.52	<5.52	ug/kg dry	
delta-BHC	319-86-8	5.52	<5.52	ug/kg dry	
Heptachlor	76-44-8	5.52	<5.52	ug/kg dry	
Aldrin	309-00-2	5.52	<5.52	ug/kg dry	
Heptachlor Epoxide	1024-57-3	5.52	<5.52	ug/kg dry	
trans-Chlordane	5103-74-2	5.52	<5.52	ug/kg dry	
cis-Chlordane	5103-71-9	5.52	<5.52	ug/kg dry	
4,4'-DDE	72-55-9	5.52	<5.52	ug/kg dry	
Endosulfan I	959-98-8	5.52	<5.52	ug/kg dry	
Dieldrin	60-57-1	5.52	<5.52	ug/kg dry	
Endrin	72-20-8	5.52	<5.52	ug/kg dry	
4,4'-DDD	72-54-8	5.52	<5.52	ug/kg dry	
Endosulfan II	33213-65-9	5.52	<5.52	ug/kg dry	
4,4'-DDT	50-29-3	5.52	<5.52	ug/kg dry	
Endrin Aldehyde	7421-93-4	5.52	<5.52	ug/kg dry	
Methoxychlor	72-43-5	5.52	<5.52	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.52	<5.52	ug/kg dry	
Endrin Ketone	53494-70-5	5.52	<5.52	ug/kg dry	
Toxaphene	8001-35-2	110	<110	ug/kg dry	
Chlordane	12789-03-6	16.6	<16.6	ug/kg dry	

Date Prepared: 01/18/2013

Date Analyzed: 01/24/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8081B



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/15/2013 10:30	Sample ID: GP3/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	55.2	<55.2	ug/kg dry	
Aroclor-1260	11096-82-5	55.2	<55.2	ug/kg dry	
Aroclor-1221	11104-28-2	55.2	<55.2	ug/kg dry	
Aroclor-1232	11141-16-5	55.2	<55.2	ug/kg dry	
Aroclor-1242	53469-21-9	55.2	<55.2	ug/kg dry	
Aroclor-1248	12672-29-6	55.2	<55.2	ug/kg dry	
Aroclor-1254	11097-69-1	55.2	<55.2	ug/kg dry	
Aroclor-1262	37324-23-5	55.2	<55.2	ug/kg dry	
Aroclor-1268	11100-14-4	55.2	<55.2	ug/kg dry	

Date Prepared: 01/18/2013

Date Analyzed: 01/18/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8082 A



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/15/2013 10:30	Sample ID: GP3/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/21/2013	EPA 6010 C	144	6050	mg/kg dry	3.E
Antimony	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Arsenic	01/21/2013	EPA 6010 C	1.00	4.83	mg/kg dry	13/16
Barium	01/21/2013	EPA 6010 C	0.87	106	mg/kg dry	250/300
Beryllium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Cadmium	01/21/2013	EPA 6010 C	1.00	<1.00	mg/kg dry	
Calcium	01/21/2013	EPA 6010 C	36.1	2250	mg/kg dry	3.E
Chromium	01/21/2013	EPA 6010 C	1.65	15.2	mg/kg dry	25/30
Cobalt	01/21/2013	EPA 6010 C	1.65	4.56	mg/kg dry	
Copper	01/21/2013	EPA 6010 C	1.65	42.3	mg/kg dry	50/200
Iron	01/21/2013	EPA 6010 C	144	9770	mg/kg dry	3.E
Lead	01/21/2013	EPA 6010 C	7.21	377	mg/kg dry	3.E
Magnesium	01/21/2013	EPA 6010 C	7.21	2320	mg/kg dry	3.E
Manganese	01/21/2013	EPA 6010 C	36.1	344	mg/kg dry	3.E
Nickel	01/21/2013	EPA 6010 C	1.65	15.9	mg/kg dry	20/130
Potassium	01/21/2013	EPA 6010 C	7.21	953	mg/kg dry	3.E
Selenium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Silver	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Sodium	01/21/2013	EPA 6010 C	7.21	609	mg/kg dry	
Thallium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Vanadium	01/21/2013	EPA 6010 C	1.65	12.4	mg/kg dry	
Zinc	01/21/2013	EPA 6010 C	1.65	81.4	mg/kg dry	100/2200

Date Prepared: 01/18/2013

Preparation Method: EPA 3050B

Date Analyzed: 01/21/2013

Analytical Method: EPA 6010 C

Mercury	01/23/2013	EPA 7471 B	0.02	3.40	mg/kg dry	
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Date Prepared: 01/18/2013

Preparation Method: EPA 7471 B

Date Analyzed: 01/23/2013

Analytical Method: EPA 7471 B

Cyanide	01/22/2013	EPA 9014	0.11	0.12	mg/kg dry	
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Date Prepared: 01/18/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/22/2013

Analytical Method: EPA 9014



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Data Qualifiers Key Reference:

- 3.A Minimum detection limit raised due to matrix interference.
- 3.E Compound reported at a dilution factor
- 4.A Estimated concentration, exceeds calibration range
- 4.F Spike recovery does not meet QC criteria due to high target compound concentration
- 4.G Spike recovery out of range due to matrix interference
- 4.H Spike recovery out of range due to matrix inconsistency
- 4.O Duplicate recovery out of range due to matrix inconsistency
- 5.K Reported as TIC
- MRL Minimum Reporting Limit



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 09:00	Sample ID: GP-4/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-01
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.91	<5.91	ug/kg dry	4.N
Chloromethane	74-87-3	5.91	<5.91	ug/kg dry	
Vinyl chloride	75-01-4	5.91	<5.91	ug/kg dry	
Bromomethane	74-83-9	5.91	<5.91	ug/kg dry	
Chloroethane	75-00-3	5.91	<5.91	ug/kg dry	
Trichlorofluoromethane	75-69-4	5.91	<5.91	ug/kg dry	
Acetone	67-64-1	11.8	<11.8	ug/kg dry	
1,1-Dichloroethylene	75-35-4	5.91	<5.91	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.91	<5.91	ug/kg dry	
Methyl Acetate	79-20-9	5.91	<5.91	ug/kg dry	
Methylene Chloride	75-09-2	5.91	<5.91	ug/kg dry	
Carbon disulfide	75-15-0	5.91	<5.91	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	5.91	<5.91	ug/kg dry	
trans-1,2-Dichloroethylene	156-60-5	5.91	<5.91	ug/kg dry	
1,1-Dichloroethane	75-34-3	5.91	<5.91	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	11.8	<11.8	ug/kg dry	
cis-1,2-Dichloroethylene	156-59-2	5.91	<5.91	ug/kg dry	
Bromochloromethane	74-97-5	5.91	<5.91	ug/kg dry	
Chloroform	67-66-3	5.91	<5.91	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	5.91	<5.91	ug/kg dry	
1,2-Dichloroethane	107-06-2	5.91	<5.91	ug/kg dry	
Carbon Tetrachloride	56-23-5	5.91	<5.91	ug/kg dry	
Benzene	71-43-2	5.91	<5.91	ug/kg dry	
Trichloroethylene	79-01-6	5.91	<5.91	ug/kg dry	
1,2-Dichloropropane	78-87-5	5.91	<5.91	ug/kg dry	
1,4-Dioxane	123-91-1	59.1	<59.1	ug/kg dry	
Bromodichloromethane	75-27-4	5.91	<5.91	ug/kg dry	
Methyl Isobutyl Ketone	108-10-1	11.8	<11.8	ug/kg dry	
cis-1,3-Dichloropropylene	10061-01-5	5.91	<5.91	ug/kg dry	
Toluene	108-88-3	5.91	<5.91	ug/kg dry	
trans-1,3-Dichloropropylene	10061-02-6	5.91	<5.91	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	5.91	<5.91	ug/kg dry	



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 09:00	Sample ID: GP-4/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-01
Matrix: Soil	ELAP: #11693

Volatile Analysis

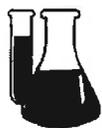
Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Ketone (2-Hexanone)	591-78-6	5.91	<5.91	ug/kg dry	
Dibromochloromethane	124-48-1	5.91	<5.91	ug/kg dry	
Tetrachloroethylene	127-18-4	5.91	<5.91	ug/kg dry	
1,2-Dibromoethane	106-93-4	5.91	<5.91	ug/kg dry	
Chlorobenzene	108-90-7	5.91	<5.91	ug/kg dry	
Ethylbenzene	100-41-4	5.91	<5.91	ug/kg dry	
m,p-Xylenes	108-38-3/106-42-3	11.8	<11.8	ug/kg dry	
Styrene	100-42-5	5.91	<5.91	ug/kg dry	
o-Xylene	95-47-6	5.91	<5.91	ug/kg dry	
Bromoform	75-25-2	5.91	<5.91	ug/kg dry	
1,1,2,2-Tetrachloroethane	79-34-5	5.91	<5.91	ug/kg dry	
Isopropylbenzene (Cumene)	98-82-8	5.91	<5.91	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	5.91	<5.91	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	5.91	<5.91	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	5.91	<5.91	ug/kg dry	
1,2-Dibromo-3-chloropropane	96-12-8	5.91	<5.91	ug/kg dry	
1,2,4-Trichlorobenzene	120-82-1	5.91	<5.91	ug/kg dry	
1,2,3-Trichlorobenzene	87-61-6	5.91	<5.91	ug/kg dry	

Date Prepared: 01/21/2013

Preparation Method: EPA 5030C Modified

Date Analyzed: 01/23/2013

Analytical Method: EPA 8260 C



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Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-01
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	78.0	<78.0	ug/kg dry	3.A
Acetophenone	989-86-2	106	<106	ug/kg dry	3.A
Phenol	108-95-2	94.6	<94.6	ug/kg dry	3.A
2-Chlorophenol	95-57-8	94.6	<94.6	ug/kg dry	3.A
Caprolactam	105-60-2	177	<177	ug/kg dry	3.A
Bis(2-Chloroethyl)ether	111-44-4	94.6	<94.6	ug/kg dry	3.A
1,1-Biphenyl	92-52-4	142	<142	ug/kg dry	3.A
1,2-Diphenylhydrazine	122-66-7	78.0	<78.0	ug/kg dry	3.A
2-Methylphenol	95-48-7	94.6	<94.6	ug/kg dry	3.A
Atrazine	1912-24-9	78.0	<78.0	ug/kg dry	3.A
Bis(2-chloroisopropyl)ether	39638-32-9	94.6	<94.6	ug/kg dry	3.A
Hexachloroethane	67-72-1	94.6	<94.6	ug/kg dry	3.A
3/4-Methylphenol	108-39-4/106-44-5	94.6	<94.6	ug/kg dry	3.A
N-Nitroso-di-n-propylamine	621-64-7	94.6	<94.6	ug/kg dry	3.A
Nitrobenzene	98-95-3	94.6	<94.6	ug/kg dry	3.A
Isophorone	78-59-1	94.6	<94.6	ug/kg dry	3.A
2-Nitrophenol	88-75-5	94.6	<94.6	ug/kg dry	3.A
2,4-Dimethylphenol	105-67-9	94.6	<94.6	ug/kg dry	3.A
bis(2-Chloroethoxy)methane	111-91-1	94.6	<94.6	ug/kg dry	3.A
2,4-Dichlorophenol	120-83-2	94.6	<94.6	ug/kg dry	3.A
Naphthalene	91-20-3	94.6	<94.6	ug/kg dry	3.A
4-Chloroaniline	106-47-8	94.6	<94.6	ug/kg dry	3.A
Hexachlorobutadiene	87-68-3	94.6	<94.6	ug/kg dry	3.A
4-Chloro-3-methylphenol	59-50-7	94.6	<94.6	ug/kg dry	3.A
2-Methylnaphthalene	91-57-6	94.6	<94.6	ug/kg dry	3.A
Hexachlorocyclopentadiene	77-47-4	94.6	<94.6	ug/kg dry	3.A
2,4,6-Trichlorophenol	88-06-2	94.6	<94.6	ug/kg dry	3.A
2,4,5-Trichlorophenol	95-95-4	94.6	<94.6	ug/kg dry	3.A
2-Chloronaphthalene	91-58-7	94.6	<94.6	ug/kg dry	3.A
2-Nitroaniline	88-74-4	94.6	<94.6	ug/kg dry	3.A
Dimethyl phthalate	131-11-3	94.6	<94.6	ug/kg dry	3.A
Acenaphthylene	208-96-8	94.6	<94.6	ug/kg dry	3.A



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Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-01
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	94.6	<94.6	ug/kg dry	3.A
3-Nitroaniline	99-09-2	94.6	<94.6	ug/kg dry	3.A
Acenaphthene	83-32-9	94.6	<94.6	ug/kg dry	3.A
2,4-Dinitrophenol	51-28-5	319	<319	ug/kg dry	3.A
Dibenzofuran	132-64-9	94.6	<94.6	ug/kg dry	3.A
4-Nitrophenol	100-02-7	319	<319	ug/kg dry	3.A
2,4-Dinitrotoluene	121-14-2	94.6	<94.6	ug/kg dry	3.A
Fluorene	86-73-7	94.6	<94.6	ug/kg dry	3.A
Diethyl phthalate	84-66-2	94.6	<94.6	ug/kg dry	3.A
4-Chlorophenyl phenyl ether	7005-72-3	94.6	<94.6	ug/kg dry	3.A
4-Nitroaniline	100-01-6	94.6	<94.6	ug/kg dry	3.A
4,6-Dinitro-2-methylphenol	534-52-1	319	<319	ug/kg dry	3.A
N-Nitrosodiphenylamine	86-30-6	94.6	<94.6	ug/kg dry	3.A
4-Bromophenyl phenyl ether	101-55-3	94.6	<94.6	ug/kg dry	3.A
Hexachlorobenzene	118-74-1	94.6	<94.6	ug/kg dry	3.A
Pentachlorophenol	87-86-5	94.6	<94.6	ug/kg dry	3.A
Phenanthrene	85-01-8	94.6	<94.6	ug/kg dry	3.A
Anthracene	120-12-7	94.6	<94.6	ug/kg dry	3.A
Carbazole	86-74-8	94.6	<94.6	ug/kg dry	3.A
Di-n-butyl phthalate	84-74-2	94.6	<94.6	ug/kg dry	3.A
Fluoranthene	206-44-0	94.6	153	ug/kg dry	3.E
Pyrene	129-00-0	94.6	126	ug/kg dry	3.E
Butyl benzyl phthalate	85-68-7	94.6	<94.6	ug/kg dry	3.A
Benzo(a)anthracene	56-55-3	94.6	<94.6	ug/kg dry	3.A
Chrysene	218-01-9	94.6	136	ug/kg dry	3.E
3,3'-Dichlorobenzidine	91-94-1	94.6	<94.6	ug/kg dry	3.A
Bis(2-Ethylhexyl)phthalate	117-81-7	94.6	624	ug/kg dry	3.E
Di-n-octyl phthalate	117-84-0	94.6	<94.6	ug/kg dry	3.A
Benzo(b)fluoranthene	205-99-2	94.6	178	ug/kg dry	3.E
Benzo(k)fluoranthene	207-08-9	94.6	<94.6	ug/kg dry	3.A
Benzo(a)pyrene	50-32-8	94.6	136	ug/kg dry	3.E



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Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	94.6	118	ug/kg dry	3.E
Dibenzo(a,h)anthracene	53-70-3	94.6	<94.6	ug/kg dry	3.A
Benzo(g,h,i)perylene	191-24-2	94.6	131	ug/kg dry	3.E
2-Pentanone, 4-hydroxy-	004161-60-8	NA	1660	ug/kg dry	
Acetamide, N-acetyl-N-methyl-	001113-68-4	NA	889	ug/kg dry	

Date Prepared: 01/22/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/23/2013

Analytical Method: EPA 8270 D



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Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-01
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	5.91	<5.91	ug/kg dry	
gamma-BHC	58-89-9	5.91	<5.91	ug/kg dry	
beta-BHC	319-85-7	5.91	<5.91	ug/kg dry	
delta-BHC	319-86-8	5.91	<5.91	ug/kg dry	
Heptachlor	76-44-8	5.91	<5.91	ug/kg dry	
Aldrin	309-00-2	5.91	<5.91	ug/kg dry	
Heptachlor Epoxide	1024-57-3	5.91	<5.91	ug/kg dry	
trans-Chlordane	5103-74-2	5.91	<5.91	ug/kg dry	
cis-Chlordane	5103-71-9	5.91	<5.91	ug/kg dry	
4,4'-DDE	72-55-9	5.91	<5.91	ug/kg dry	
Endosulfan I	959-98-8	5.91	<5.91	ug/kg dry	
Dieldrin	60-57-1	5.91	<5.91	ug/kg dry	
Endrin	72-20-8	5.91	<5.91	ug/kg dry	
4,4'-DDD	72-54-8	5.91	<5.91	ug/kg dry	
Endosulfan II	33213-65-9	5.91	<5.91	ug/kg dry	
4,4'-DDT	50-29-3	5.91	<5.91	ug/kg dry	
Endrin Aldehyde	7421-93-4	5.91	<5.91	ug/kg dry	
Methoxychlor	72-43-5	5.91	<5.91	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.91	<5.91	ug/kg dry	
Endrin Ketone	53494-70-5	5.91	<5.91	ug/kg dry	
Toxaphene	8001-35-2	118	<118	ug/kg dry	
Chlordane	12789-03-6	17.7	<17.7	ug/kg dry	

Date Prepared: 01/22/2013

Date Analyzed: 01/22/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8081B



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Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-01
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	59.1	<59.1	ug/kg dry	
Aroclor-1260	11096-82-5	59.1	<59.1	ug/kg dry	
Aroclor-1221	11104-28-2	59.1	<59.1	ug/kg dry	
Aroclor-1232	11141-16-5	59.1	<59.1	ug/kg dry	
Aroclor-1242	53469-21-9	59.1	<59.1	ug/kg dry	
Aroclor-1248	12672-29-6	59.1	<59.1	ug/kg dry	
Aroclor-1254	11097-69-1	59.1	<59.1	ug/kg dry	
Aroclor-1262	37324-23-5	59.1	<59.1	ug/kg dry	
Aroclor-1268	11100-14-4	59.1	<59.1	ug/kg dry	

Date Prepared: 01/22/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/22/2013

Analytical Method: EPA 8082 A



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Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-01
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/22/2013	EPA 6010 C	164	7580	mg/kg dry	3.E
Antimony	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Arsenic	01/21/2013	EPA 6010 C	1.00	4.06	mg/kg dry	
Barium	01/22/2013	EPA 6010 C	1.98	321	mg/kg dry	3.E
Beryllium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Cadmium	01/21/2013	EPA 6010 C	1.00	<1.00	mg/kg dry	
Calcium	01/22/2013	EPA 6010 C	818	42200	mg/kg dry	3.E
Chromium	01/21/2013	EPA 6010 C	1.65	15.4	mg/kg dry	
Cobalt	01/21/2013	EPA 6010 C	1.65	4.96	mg/kg dry	
Copper	01/21/2013	EPA 6010 C	1.65	33.2	mg/kg dry	
Iron	01/22/2013	EPA 6010 C	164	11800	mg/kg dry	3.E
Lead	01/22/2013	EPA 6010 C	16.4	1840	mg/kg dry	3.E
Magnesium	01/22/2013	EPA 6010 C	16.4	10800	mg/kg dry	3.E
Manganese	01/22/2013	EPA 6010 C	16.4	273	mg/kg dry	3.E
Nickel	01/21/2013	EPA 6010 C	1.65	14.6	mg/kg dry	
Potassium	01/22/2013	EPA 6010 C	16.4	1720	mg/kg dry	3.E
Selenium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Silver	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Sodium	01/21/2013	EPA 6010 C	8.18	884	mg/kg dry	
Thallium	01/21/2013	EPA 6010 C	1.65	1.83	mg/kg dry	
Vanadium	01/21/2013	EPA 6010 C	1.65	15.8	mg/kg dry	
Zinc	01/22/2013	EPA 6010 C	3.27	286	mg/kg dry	3.E

Date Prepared: 01/21/2013

Preparation Method: EPA 3050B

Date Analyzed: 01/22/2013

Analytical Method: EPA 6010 C

Mercury	01/24/2013	EPA 7471 B	0.02	0.88	mg/kg dry	3.E
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Date Prepared: 01/21/2013

Preparation Method: EPA 7471 B

Date Analyzed: 01/24/2013

Analytical Method: EPA 7471 B

Cyanide	01/22/2013	EPA 9014	0.12	<0.12	mg/kg dry	
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Date Prepared: 01/18/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/22/2013

Analytical Method: EPA 9014



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Date (Time) Collected: 01/16/2013 10:00	Sample ID: GP-5/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-02
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	126	<126	ug/kg dry	3.A, 4.N
Chloromethane	74-87-3	126	<126	ug/kg dry	3.A
Vinyl chloride	75-01-4	126	<126	ug/kg dry	3.A
Bromomethane	74-83-9	126	<126	ug/kg dry	3.A
Chloroethane	75-00-3	126	<126	ug/kg dry	3.A
Trichlorofluoromethane	75-69-4	126	<126	ug/kg dry	3.A
Acetone	67-64-1	251	<251	ug/kg dry	3.A
1,1-Dichloroethylene	75-35-4	126	<126	ug/kg dry	3.A
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	126	<126	ug/kg dry	3.A
Methyl Acetate	79-20-9	126	<126	ug/kg dry	3.A
Methylene Chloride	75-09-2	126	<126	ug/kg dry	3.A
Carbon disulfide	75-15-0	126	<126	ug/kg dry	3.A
Methyl-tert-Butyl Ether	1634-04-4	126	<126	ug/kg dry	3.A
trans-1,2-Dichloroethylene	156-60-5	126	<126	ug/kg dry	3.A
1,1-Dichloroethane	75-34-3	126	<126	ug/kg dry	3.A
Methyl Ethyl Ketone (2-Butanone)	78-93-3	251	<251	ug/kg dry	3.A
cis-1,2-Dichloroethylene	156-59-2	126	<126	ug/kg dry	3.A
Bromochloromethane	74-97-5	126	<126	ug/kg dry	3.A
Chloroform	67-66-3	126	<126	ug/kg dry	3.A
1,1,1-Trichloroethane	71-55-6	126	<126	ug/kg dry	3.A
1,2-Dichloroethane	107-06-2	126	<126	ug/kg dry	3.A
Carbon Tetrachloride	56-23-5	126	<126	ug/kg dry	3.A
Benzene	71-43-2	126	<126	ug/kg dry	3.A
Trichloroethylene	79-01-6	126	<126	ug/kg dry	3.A
1,2-Dichloropropane	78-87-5	126	<126	ug/kg dry	3.A
1,4-Dioxane	123-91-1	1260	<1260	ug/kg dry	3.A
Bromodichloromethane	75-27-4	126	<126	ug/kg dry	3.A
Methyl Isobutyl Ketone	108-10-1	251	<251	ug/kg dry	3.A
cis-1,3-Dichloropropylene	10061-01-5	126	<126	ug/kg dry	3.A
Toluene	108-88-3	126	809	ug/kg dry	3.E
trans-1,3-Dichloropropylene	10061-02-6	126	<126	ug/kg dry	3.A
1,1,2-Trichloroethane	79-00-5	126	<126	ug/kg dry	3.A



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Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-02
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Ketone (2-Hexanone)	591-78-6	126	<126	ug/kg dry	3.A
Dibromochloromethane	124-48-1	126	<126	ug/kg dry	3.A
Tetrachloroethylene	127-18-4	126	<126	ug/kg dry	3.A
1,2-Dibromoethane	106-93-4	126	<126	ug/kg dry	3.A
Chlorobenzene	108-90-7	126	<126	ug/kg dry	3.A
Ethylbenzene	100-41-4	126	1110	ug/kg dry	3.E
m,p-Xylenes	108-38-3/106-42-3	251	6440	ug/kg dry	3.E
Styrene	100-42-5	126	<126	ug/kg dry	3.A
o-Xylene	95-47-6	126	3910	ug/kg dry	3.E
Bromoform	75-25-2	126	<126	ug/kg dry	3.A
1,1,1,2-Tetrachloroethane	79-34-5	126	<126	ug/kg dry	3.A
Isopropylbenzene (Cumene)	98-82-8	126	173	ug/kg dry	3.E
1,3-Dichlorobenzene	541-73-1	126	<126	ug/kg dry	3.A
1,4-Dichlorobenzene	106-46-7	126	<126	ug/kg dry	3.A
1,2-Dichlorobenzene	95-50-1	126	<126	ug/kg dry	3.A
1,2-Dibromo-3-chloropropane	96-12-8	126	<126	ug/kg dry	3.A
1,2,4-Trichlorobenzene	120-82-1	126	<126	ug/kg dry	3.A
1,2,3-Trichlorobenzene	87-61-6	126	<126	ug/kg dry	3.A
Benzene, (2-methylcyclopropyl)-	1000327-39-0	NA	326	ug/kg dry	5.K
Benzene, 1,2,3,4-tetramethyl-	000488-23-3	NA	671	ug/kg dry	5.K
Benzene, 1,2,3,5-tetramethyl-	000527-53-7	NA	439	ug/kg dry	5.K
Benzene, 1,2,4-trimethyl-	000095-63-6	NA	2380	ug/kg dry	5.K
Benzene, 1-ethyl-2,4-dimethyl-	000874-41-9	NA	802	ug/kg dry	5.K
Benzene, 1-ethyl-2-methyl-	000611-14-3	NA	2150	ug/kg dry	5.K
Benzene, 1-ethyl-3,5-dimethyl-	000934-74-7	NA	177	ug/kg dry	5.K
Benzene, 1-methyl-2-propyl-	001074-17-5	NA	231	ug/kg dry	5.K
Ether, hexyl pentyl	032357-83-8	NA	225	ug/kg dry	5.K
Heptane, 2-methyl-	000592-27-8	NA	176	ug/kg dry	5.K
Heptane, 3-methyl-	000589-81-1	NA	239	ug/kg dry	5.K
Nonane	111-84-2	NA	145	ug/kg dry	5.K
Octane	111-65-9	NA	194	ug/kg dry	5.K



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Date (Time) Collected: 01/16/2013 10:00	Sample ID: GP-5/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-02
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
o-Cymene	000527-84-4	NA	489	ug/kg dry	5.K
Pentane, 3-ethyl-2-methyl-	000609-26-7	NA	153	ug/kg dry	5.K

Date Prepared: 01/21/2013

Preparation Method: EPA 5030C Modified

Date Analyzed: 01/23/2013

Analytical Method: EPA 8260 C



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Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-02
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	82.8	<82.8	ug/kg dry	3.A
Acetophenone	989-86-2	113	<113	ug/kg dry	3.A
Phenol	108-95-2	100	<100	ug/kg dry	3.A
2-Chlorophenol	95-57-8	100	<100	ug/kg dry	3.A
Caprolactam	105-60-2	188	<188	ug/kg dry	3.A
Bis(2-Chloroethyl)ether	111-44-4	100	<100	ug/kg dry	3.A
1,1-Biphenyl	92-52-4	151	<151	ug/kg dry	3.A
1,2-Diphenylhydrazine	122-66-7	82.8	<82.8	ug/kg dry	3.A
2-Methylphenol	95-48-7	100	<100	ug/kg dry	3.A
Atrazine	1912-24-9	82.8	<82.8	ug/kg dry	3.A
Bis(2-chloroisopropyl)ether	39638-32-9	100	<100	ug/kg dry	3.A
Hexachloroethane	67-72-1	100	<100	ug/kg dry	3.A
3/4-Methylphenol	108-39-4/106-44-5	100	<100	ug/kg dry	3.A
N-Nitroso-di-n-propylamine	621-64-7	100	<100	ug/kg dry	3.A
Nitrobenzene	98-95-3	100	<100	ug/kg dry	3.A
Isophorone	78-59-1	100	<100	ug/kg dry	3.A
2-Nitrophenol	88-75-5	100	<100	ug/kg dry	3.A
2,4-Dimethylphenol	105-67-9	100	<100	ug/kg dry	3.A
bis(2-Chloroethoxy)methane	111-91-1	100	<100	ug/kg dry	3.A
2,4-Dichlorophenol	120-83-2	100	<100	ug/kg dry	3.A
Naphthalene	91-20-3	100	<100	ug/kg dry	3.A
4-Chloroaniline	106-47-8	100	<100	ug/kg dry	3.A
Hexachlorobutadiene	87-68-3	100	<100	ug/kg dry	3.A
4-Chloro-3-methylphenol	59-50-7	100	<100	ug/kg dry	3.A
2-Methylnaphthalene	91-57-6	100	<100	ug/kg dry	3.A
Hexachlorocyclopentadiene	77-47-4	100	<100	ug/kg dry	3.A
2,4,6-Trichlorophenol	88-06-2	100	<100	ug/kg dry	3.A
2,4,5-Trichlorophenol	95-95-4	100	<100	ug/kg dry	3.A
2-Chloronaphthalene	91-58-7	100	<100	ug/kg dry	3.A
2-Nitroaniline	88-74-4	100	<100	ug/kg dry	3.A
Dimethyl phthalate	131-11-3	100	<100	ug/kg dry	3.A
Acenaphthylene	208-96-8	100	<100	ug/kg dry	3.A



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Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	100	<100	ug/kg dry	3.A
3-Nitroaniline	99-09-2	100	<100	ug/kg dry	3.A
Acenaphthene	83-32-9	100	<100	ug/kg dry	3.A
2,4-Dinitrophenol	51-28-5	339	<339	ug/kg dry	3.A
Dibenzofuran	132-64-9	100	<100	ug/kg dry	3.A
4-Nitrophenol	100-02-7	339	<339	ug/kg dry	3.A
2,4-Dinitrotoluene	121-14-2	100	<100	ug/kg dry	3.A
Fluorene	86-73-7	100	<100	ug/kg dry	3.A
Diethyl phthalate	84-66-2	100	<100	ug/kg dry	3.A
4-Chlorophenyl phenyl ether	7005-72-3	100	<100	ug/kg dry	3.A
4-Nitroaniline	100-01-6	100	<100	ug/kg dry	3.A
4,6-Dinitro-2-methylphenol	534-52-1	339	<339	ug/kg dry	3.A
N-Nitrosodiphenylamine	86-30-6	100	<100	ug/kg dry	3.A
4-Bromophenyl phenyl ether	101-55-3	100	<100	ug/kg dry	3.A
Hexachlorobenzene	118-74-1	100	<100	ug/kg dry	3.A
Pentachlorophenol	87-86-5	100	<100	ug/kg dry	3.A
Phenanthrene	85-01-8	100	<100	ug/kg dry	3.A
Anthracene	120-12-7	100	<100	ug/kg dry	3.A
Carbazole	86-74-8	100	<100	ug/kg dry	3.A
Di-n-butyl phthalate	84-74-2	100	<100	ug/kg dry	3.A
Fluoranthene	206-44-0	100	<100	ug/kg dry	3.A
Pyrene	129-00-0	100	<100	ug/kg dry	3.A
Butyl benzyl phthalate	85-68-7	100	<100	ug/kg dry	3.A
Benzo(a)anthracene	56-55-3	100	<100	ug/kg dry	3.A
Chrysene	218-01-9	100	<100	ug/kg dry	3.A
3,3'-Dichlorobenzidine	91-94-1	100	<100	ug/kg dry	3.A
Bis(2-Ethylhexyl)phthalate	117-81-7	100	248	ug/kg dry	3.E
Di-n-octyl phthalate	117-84-0	100	<100	ug/kg dry	3.A
Benzo(b)fluoranthene	205-99-2	100	152	ug/kg dry	3.E
Benzo(k)fluoranthene	207-08-9	100	<100	ug/kg dry	3.A
Benzo(a)pyrene	50-32-8	100	115	ug/kg dry	3.E



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Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	100	115	ug/kg dry	3.E
Dibenzo(a,h)anthracene	53-70-3	100	<100	ug/kg dry	3.A
Benzo(g,h,i)perylene	191-24-2	100	139	ug/kg dry	3.E, 3.A
2-Pentanone, 4-hydroxy-	004161-60-8	NA	1700	ug/kg dry	
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	122000	ug/kg dry	
Acetic acid, 1-methylethyl ester	000108-21-4	NA	582	ug/kg dry	
n-Hexadecanoic acid	000057-10-3	NA	763	ug/kg dry	

Date Prepared: 01/22/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/23/2013

Analytical Method: EPA 8270 D



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Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	6.28	7.18	ug/kg dry	
gamma-BHC	58-89-9	6.28	<6.28	ug/kg dry	
beta-BHC	319-85-7	6.28	<6.28	ug/kg dry	
delta-BHC	319-86-8	6.28	<6.28	ug/kg dry	
Heptachlor	76-44-8	6.28	<6.28	ug/kg dry	
Aldrin	309-00-2	6.28	<6.28	ug/kg dry	
Heptachlor Epoxide	1024-57-3	6.28	<6.28	ug/kg dry	
trans-Chlordane	5103-74-2	6.28	<6.28	ug/kg dry	
cis-Chlordane	5103-71-9	6.28	<6.28	ug/kg dry	
4,4'-DDE	72-55-9	6.28	<6.28	ug/kg dry	
Endosulfan I	959-98-8	6.28	<6.28	ug/kg dry	
Dieldrin	60-57-1	6.28	<6.28	ug/kg dry	
Endrin	72-20-8	6.28	<6.28	ug/kg dry	
4,4'-DDD	72-54-8	6.28	<6.28	ug/kg dry	
Endosulfan II	33213-65-9	6.28	<6.28	ug/kg dry	
4,4'-DDT	50-29-3	6.28	<6.28	ug/kg dry	
Endrin Aldehyde	7421-93-4	6.28	<6.28	ug/kg dry	
Methoxychlor	72-43-5	6.28	<6.28	ug/kg dry	
Endosulfan Sulfate	1031-07-8	6.28	<6.28	ug/kg dry	
Endrin Ketone	53494-70-5	6.28	<6.28	ug/kg dry	
Toxaphene	8001-35-2	126	<126	ug/kg dry	
Chlordane	12789-03-6	18.8	<18.8	ug/kg dry	

Date Prepared: 01/22/2013

Date Analyzed: 01/22/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8081B



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Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	62.8	<62.8	ug/kg dry	
Aroclor-1260	11096-82-5	62.8	<62.8	ug/kg dry	
Aroclor-1221	11104-28-2	62.8	<62.8	ug/kg dry	
Aroclor-1232	11141-16-5	62.8	<62.8	ug/kg dry	
Aroclor-1242	53469-21-9	62.8	<62.8	ug/kg dry	
Aroclor-1248	12672-29-6	62.8	<62.8	ug/kg dry	
Aroclor-1254	11097-69-1	62.8	<62.8	ug/kg dry	
Aroclor-1262	37324-23-5	62.8	<62.8	ug/kg dry	
Aroclor-1268	11100-14-4	62.8	<62.8	ug/kg dry	

Date Prepared: 01/22/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/22/2013

Analytical Method: EPA 8082 A



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Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-02
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/22/2013	EPA 6010 C	167	6110	mg/kg dry	3.E
Antimony	01/21/2013	EPA 6010 C	1.67	<1.67	mg/kg dry	
Arsenic	01/21/2013	EPA 6010 C	1.01	2.87	mg/kg dry	
Barium	01/22/2013	EPA 6010 C	2.02	250	mg/kg dry	3.E
Beryllium	01/21/2013	EPA 6010 C	1.67	<1.67	mg/kg dry	
Cadmium	01/21/2013	EPA 6010 C	1.01	1.40	mg/kg dry	
Calcium	01/22/2013	EPA 6010 C	833	34200	mg/kg dry	3.E
Chromium	01/21/2013	EPA 6010 C	1.67	13.9	mg/kg dry	
Cobalt	01/21/2013	EPA 6010 C	1.67	4.22	mg/kg dry	
Copper	01/21/2013	EPA 6010 C	1.67	26.0	mg/kg dry	
Iron	01/22/2013	EPA 6010 C	167	11100	mg/kg dry	3.E
Lead	01/22/2013	EPA 6010 C	8.33	588	mg/kg dry	3.E
Magnesium	01/22/2013	EPA 6010 C	8.33	5730	mg/kg dry	3.E
Manganese	01/22/2013	EPA 6010 C	41.6	358	mg/kg dry	3.E
Nickel	01/21/2013	EPA 6010 C	1.67	12.7	mg/kg dry	
Potassium	01/22/2013	EPA 6010 C	3.33	1580	mg/kg dry	3.E
Selenium	01/21/2013	EPA 6010 C	1.67	<1.67	mg/kg dry	
Silver	01/21/2013	EPA 6010 C	1.67	<1.67	mg/kg dry	
Sodium	01/21/2013	EPA 6010 C	8.33	953	mg/kg dry	
Thallium	01/21/2013	EPA 6010 C	1.67	2.42	mg/kg dry	
Vanadium	01/21/2013	EPA 6010 C	1.67	15.8	mg/kg dry	
Zinc	01/22/2013	EPA 6010 C	3.33	280	mg/kg dry	3.E

Preparation Method: EPA 3050B

Analytical Method: EPA 6010 C

Date Prepared: 01/21/2013

Date Analyzed: 01/22/2013

Mercury	01/24/2013	EPA 7471 B	0.03	0.97	mg/kg dry	3.E
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Preparation Method: EPA 7471 B

Analytical Method: EPA 7471 B

Date Prepared: 01/21/2013

Date Analyzed: 01/24/2013

Cyanide	01/22/2013	EPA 9014	0.13	0.16	mg/kg dry	
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Preparation Method: Distillation Prep

Analytical Method: EPA 9014

Date Prepared: 01/18/2013

Date Analyzed: 01/22/2013



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Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.78	<5.78	ug/kg dry	4.N
Chloromethane	74-87-3	5.78	<5.78	ug/kg dry	
Vinyl chloride	75-01-4	5.78	<5.78	ug/kg dry	
Bromomethane	74-83-9	5.78	<5.78	ug/kg dry	
Chloroethane	75-00-3	5.78	<5.78	ug/kg dry	
Trichlorofluoromethane	75-69-4	5.78	<5.78	ug/kg dry	
Acetone	67-64-1	11.6	<11.6	ug/kg dry	
1,1-Dichloroethylene	75-35-4	5.78	<5.78	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.78	<5.78	ug/kg dry	
Methyl Acetate	79-20-9	5.78	<5.78	ug/kg dry	
Methylene Chloride	75-09-2	5.78	<5.78	ug/kg dry	
Carbon disulfide	75-15-0	5.78	<5.78	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	5.78	<5.78	ug/kg dry	
trans-1,2-Dichloroethylene	156-60-5	5.78	<5.78	ug/kg dry	
1,1-Dichloroethane	75-34-3	5.78	<5.78	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	11.6	<11.6	ug/kg dry	
cis-1,2-Dichloroethylene	156-59-2	5.78	<5.78	ug/kg dry	
Bromochloromethane	74-97-5	5.78	<5.78	ug/kg dry	
Chloroform	67-66-3	5.78	<5.78	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	5.78	<5.78	ug/kg dry	
1,2-Dichloroethane	107-06-2	5.78	<5.78	ug/kg dry	
Carbon Tetrachloride	56-23-5	5.78	<5.78	ug/kg dry	
Benzene	71-43-2	5.78	<5.78	ug/kg dry	
Trichloroethylene	79-01-6	5.78	<5.78	ug/kg dry	
1,2-Dichloropropane	78-87-5	5.78	<5.78	ug/kg dry	
1,4-Dioxane	123-91-1	57.8	<57.8	ug/kg dry	
Bromodichloromethane	75-27-4	5.78	<5.78	ug/kg dry	
Methyl Isobutyl Ketone	108-10-1	11.6	<11.6	ug/kg dry	
cis-1,3-Dichloropropylene	10061-01-5	5.78	<5.78	ug/kg dry	
Toluene	108-88-3	5.78	<5.78	ug/kg dry	
trans-1,3-Dichloropropylene	10061-02-6	5.78	<5.78	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	5.78	<5.78	ug/kg dry	



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Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Ketone (2-Hexanone)	591-78-6	5.78	<5.78	ug/kg dry	
Dibromochloromethane	124-48-1	5.78	<5.78	ug/kg dry	
Tetrachloroethylene	127-18-4	5.78	<5.78	ug/kg dry	
1,2-Dibromoethane	106-93-4	5.78	<5.78	ug/kg dry	
Chlorobenzene	108-90-7	5.78	<5.78	ug/kg dry	
Ethylbenzene	100-41-4	5.78	<5.78	ug/kg dry	
m,p-Xylenes	108-38-3/106-42-3	11.6	<11.6	ug/kg dry	
Styrene	100-42-5	5.78	<5.78	ug/kg dry	
o-Xylene	95-47-6	5.78	<5.78	ug/kg dry	
Bromoform	75-25-2	5.78	<5.78	ug/kg dry	
1,1,2,2-Tetrachloroethane	79-34-5	5.78	<5.78	ug/kg dry	
Isopropylbenzene (Cumene)	98-82-8	5.78	<5.78	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	5.78	<5.78	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	5.78	<5.78	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	5.78	<5.78	ug/kg dry	
1,2-Dibromo-3-chloropropane	96-12-8	5.78	<5.78	ug/kg dry	
1,2,4-Trichlorobenzene	120-82-1	5.78	<5.78	ug/kg dry	
1,2,3-Trichlorobenzene	87-61-6	5.78	<5.78	ug/kg dry	
1-Methyldecahydronaphthalene	002958-75-0	NA	52.4	ug/kg dry	5.K
Decane, 3,7-dimethyl-	017312-54-8	NA	51.5	ug/kg dry	5.K
Decane, 4-methyl-	002847-72-5	NA	27.4	ug/kg dry	5.K
Dodecane	000112-40-3	NA	68.7	ug/kg dry	5.K
Dodecane, 6-methyl-	6044	NA	106	ug/kg dry	5.K
Hexadecane	000544-76-3	NA	26.0	ug/kg dry	5.K
Nonane, 2,5-dimethyl-	017302-27-1	NA	14.4	ug/kg dry	5.K
Nonane, 4-methyl-5-propyl-	062185-55-1	NA	9.73	ug/kg dry	5.K
Undecane, 4-methyl-	002980-69-0	NA	21.5	ug/kg dry	5.K
Undecane, 5-methyl-	1632	NA	59.8	ug/kg dry	5.K
unknown	NA	NA	16.7	ug/kg dry	5.K
unknown hydrocarbon (01)	NA	NA	92.1	ug/kg dry	5.K
unknown hydrocarbon (02)	NA	NA	45.7	ug/kg dry	5.K



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
unknown hydrocarbon (03)	NA	NA	34.3	ug/kg dry	5.K
unknown hydrocarbon (04)	NA	NA	13.8	ug/kg dry	5.K

Date Prepared: 01/21/2013

Preparation Method: EPA 5030C Modified

Date Analyzed: 01/23/2013

Analytical Method: EPA 8260 C



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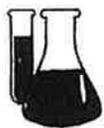
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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	76.3	<76.3	ug/kg dry	
Acetophenone	989-86-2	104	<104	ug/kg dry	
Phenol	108-95-2	46.2	<46.2	ug/kg dry	
2-Chlorophenol	95-57-8	46.2	<46.2	ug/kg dry	
Caprolactam	105-60-2	173	<173	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	46.2	<46.2	ug/kg dry	
1,1-Biphenyl	92-52-4	139	<139	ug/kg dry	
1,2-Diphenylhydrazine	122-66-7	76.3	<76.3	ug/kg dry	
2-Methylphenol	95-48-7	46.2	<46.2	ug/kg dry	
Atrazine	1912-24-9	76.3	<76.3	ug/kg dry	
Bis(2-chloroisopropyl)ether	39638-32-9	46.2	<46.2	ug/kg dry	
Hexachloroethane	67-72-1	46.2	<46.2	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	46.2	<46.2	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	46.2	<46.2	ug/kg dry	
Nitrobenzene	98-95-3	46.2	<46.2	ug/kg dry	
Isophorone	78-59-1	46.2	<46.2	ug/kg dry	
2-Nitrophenol	88-75-5	46.2	<46.2	ug/kg dry	
2,4-Dimethylphenol	105-67-9	46.2	<46.2	ug/kg dry	
bis(2-Chloroethoxy)methane	111-91-1	46.2	<46.2	ug/kg dry	
2,4-Dichlorophenol	120-83-2	46.2	<46.2	ug/kg dry	
Naphthalene	91-20-3	46.2	<46.2	ug/kg dry	
4-Chloroaniline	106-47-8	46.2	<46.2	ug/kg dry	
Hexachlorobutadiene	87-68-3	46.2	<46.2	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	46.2	<46.2	ug/kg dry	
2-Methylnaphthalene	91-57-6	46.2	<46.2	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	46.2	<46.2	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	46.2	<46.2	ug/kg dry	
2,4,5-Trichlorophenol	95-95-4	46.2	<46.2	ug/kg dry	
2-Chloronaphthalene	91-58-7	46.2	<46.2	ug/kg dry	
2-Nitroaniline	88-74-4	46.2	<46.2	ug/kg dry	
Dimethyl phthalate	131-11-3	46.2	<46.2	ug/kg dry	
Acenaphthylene	208-96-8	46.2	<46.2	ug/kg dry	



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	46.2	<46.2	ug/kg dry	
3-Nitroaniline	99-09-2	46.2	<46.2	ug/kg dry	
Acenaphthene	83-32-9	46.2	<46.2	ug/kg dry	
2,4-Dinitrophenol	51-28-5	156	<156	ug/kg dry	
Dibenzofuran	132-64-9	46.2	<46.2	ug/kg dry	
4-Nitrophenol	100-02-7	156	<156	ug/kg dry	
2,4-Dinitrotoluene	121-14-2	46.2	<46.2	ug/kg dry	
Fluorene	86-73-7	46.2	<46.2	ug/kg dry	
Diethyl phthalate	84-66-2	46.2	<46.2	ug/kg dry	
4-Chlorophenyl phenyl ether	7005-72-3	46.2	<46.2	ug/kg dry	
4-Nitroaniline	100-01-6	46.2	<46.2	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	156	<156	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	46.2	<46.2	ug/kg dry	
4-Bromophenyl phenyl ether	101-55-3	46.2	<46.2	ug/kg dry	
Hexachlorobenzene	118-74-1	46.2	<46.2	ug/kg dry	
Pentachlorophenol	87-86-5	46.2	<46.2	ug/kg dry	
Phenanthrene	85-01-8	46.2	<46.2	ug/kg dry	
Anthracene	120-12-7	46.2	<46.2	ug/kg dry	
Carbazole	86-74-8	46.2	<46.2	ug/kg dry	
Di-n-butyl phthalate	84-74-2	46.2	<46.2	ug/kg dry	
Fluoranthene	206-44-0	46.2	<46.2	ug/kg dry	
Pyrene	129-00-0	46.2	<46.2	ug/kg dry	
Butyl benzyl phthalate	85-68-7	46.2	<46.2	ug/kg dry	
Benzo(a)anthracene	56-55-3	46.2	<46.2	ug/kg dry	
Chrysene	218-01-9	46.2	<46.2	ug/kg dry	
3,3'-Dichlorobenzidine	91-94-1	46.2	<46.2	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	46.2	88.6	ug/kg dry	
Di-n-octyl phthalate	117-84-0	46.2	<46.2	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	46.2	55.5	ug/kg dry	
Benzo(k)fluoranthene	207-08-9	46.2	<46.2	ug/kg dry	
Benzo(a)pyrene	50-32-8	46.2	49.3	ug/kg dry	



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Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	46.2	67.8	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	46.2	<46.2	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	46.2	112	ug/kg dry	
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	48000	ug/kg dry	
4-Heptafluorobutyroxyhexadecane	1000215-97-6	NA	188	ug/kg dry	
n-Hexadecanoic acid	000057-10-3	NA	376	ug/kg dry	

Date Prepared: 01/22/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/22/2013

Analytical Method: EPA 8270 D



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	5.78	<5.78	ug/kg dry	
gamma-BHC	58-89-9	5.78	<5.78	ug/kg dry	
beta-BHC	319-85-7	5.78	<5.78	ug/kg dry	
delta-BHC	319-86-8	5.78	<5.78	ug/kg dry	
Heptachlor	76-44-8	5.78	<5.78	ug/kg dry	
Aldrin	309-00-2	5.78	<5.78	ug/kg dry	
Heptachlor Epoxide	1024-57-3	5.78	<5.78	ug/kg dry	
trans-Chlordane	5103-74-2	5.78	<5.78	ug/kg dry	
cis-Chlordane	5103-71-9	5.78	<5.78	ug/kg dry	
4,4'-DDE	72-55-9	5.78	<5.78	ug/kg dry	
Endosulfan I	959-98-8	5.78	<5.78	ug/kg dry	
Dieldrin	60-57-1	5.78	<5.78	ug/kg dry	
Endrin	72-20-8	5.78	<5.78	ug/kg dry	
4,4'-DDD	72-54-8	5.78	<5.78	ug/kg dry	
Endosulfan II	33213-65-9	5.78	<5.78	ug/kg dry	
4,4'-DDT	50-29-3	5.78	<5.78	ug/kg dry	4.G
Endrin Aldehyde	7421-93-4	5.78	<5.78	ug/kg dry	
Methoxychlor	72-43-5	5.78	<5.78	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.78	<5.78	ug/kg dry	
Endrin Ketone	53494-70-5	5.78	<5.78	ug/kg dry	
Toxaphene	8001-35-2	116	<116	ug/kg dry	
Chlordane	12789-03-6	17.3	<17.3	ug/kg dry	

Date Prepared: 01/22/2013

Date Analyzed: 01/22/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8081B



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Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	57.8	<57.8	ug/kg dry	
Aroclor-1260	11096-82-5	57.8	<57.8	ug/kg dry	
Aroclor-1221	11104-28-2	57.8	<57.8	ug/kg dry	
Aroclor-1232	11141-16-5	57.8	<57.8	ug/kg dry	
Aroclor-1242	53469-21-9	57.8	<57.8	ug/kg dry	
Aroclor-1248	12672-29-6	57.8	<57.8	ug/kg dry	
Aroclor-1254	11097-69-1	57.8	<57.8	ug/kg dry	
Aroclor-1262	37324-23-5	57.8	<57.8	ug/kg dry	
Aroclor-1268	11100-14-4	57.8	<57.8	ug/kg dry	

Date Prepared: 01/22/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/22/2013

Analytical Method: EPA 8082 A



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/22/2013	EPA 6010 C	151	6030	mg/kg dry	3.E
Antimony	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Arsenic	01/21/2013	EPA 6010 C	1.00	2.81	mg/kg dry	
Barium	01/22/2013	EPA 6010 C	1.82	208	mg/kg dry	3.E
Beryllium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Cadmium	01/21/2013	EPA 6010 C	1.00	3.35	mg/kg dry	
Calcium	01/22/2013	EPA 6010 C	753	37000	mg/kg dry	3.E
Chromium	01/21/2013	EPA 6010 C	1.65	14.7	mg/kg dry	
Cobalt	01/21/2013	EPA 6010 C	1.65	4.40	mg/kg dry	
Copper	01/21/2013	EPA 6010 C	1.65	21.3	mg/kg dry	
Iron	01/22/2013	EPA 6010 C	151	11000	mg/kg dry	3.E
Lead	01/22/2013	EPA 6010 C	7.53	675	mg/kg dry	3.E
Magnesium	01/22/2013	EPA 6010 C	7.53	7730	mg/kg dry	3.E
Manganese	01/22/2013	EPA 6010 C	37.6	449	mg/kg dry	3.E
Nickel	01/21/2013	EPA 6010 C	1.65	13.4	mg/kg dry	
Potassium	01/22/2013	EPA 6010 C	3.01	1720	mg/kg dry	3.E
Selenium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Silver	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Sodium	01/22/2013	EPA 6010 C	15.1	1280	mg/kg dry	3.E
Thallium	01/21/2013	EPA 6010 C	1.65	2.21	mg/kg dry	
Vanadium	01/21/2013	EPA 6010 C	1.65	17.5	mg/kg dry	
Zinc	01/22/2013	EPA 6010 C	7.53	400	mg/kg dry	3.E

Date Prepared: 01/21/2013

Preparation Method: EPA 3050B

Date Analyzed: 01/22/2013

Analytical Method: EPA 6010 C

Mercury	01/24/2013	EPA 7471 B	0.02	0.59	mg/kg dry	3.E
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Date Prepared: 01/21/2013

Preparation Method: EPA 7471 B

Date Analyzed: 01/24/2013

Analytical Method: EPA 7471 B

Cyanide	01/22/2013	EPA 9014	0.12	0.13	mg/kg dry	
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Date Prepared: 01/18/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/22/2013

Analytical Method: EPA 9014



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Data Qualifiers Key Reference:

- 3.A Minimum detection limit raised due to matrix interference.
- 3.E Compound reported at a dilution factor
- 4.F Spike recovery does not meet QC criteria due to high target compound concentration
- 4.G Spike recovery out of range due to matrix interference
- 4.H Spike recovery out of range due to matrix inconsistency
- 4.N LCS recovery below QC limit
- 5.K Reported as TIC
- MRL Minimum Reporting Limit



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SOIL MECHANICS

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3011713

CHAIN OF CUSTODY

ANALYSIS REQUIRED

LABORATORY: L I A		PROJECT NO.		CONTAINERS		ANALYSIS REQUIRED						
PROJECT NAME: <u>MANKATON</u>		PROJECT NO. <u>12-703</u>		NUMBER OF CONTAINERS		TCL Metals	TCL organics including Volc	Succ, Pest	Succ, Pest	ADDITIONAL REQUIREMENTS		
SAMPLE I.D. NUMBER	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION						
GP-1/S-1	1-13-13	10:00	X	X	Soil	0-2'	X	X	X	X	X	3011713-01
GP-1/S-3	↑	10:30	X	X	↑	4'-6"	X	X	X	X	X	02
GP-2/S-1	↑	1:00	X	X	↑	0-2'	X	X	X	X	X	03
GP-2/S-2	↓	1:30	X	X	↓	2-4'	X	X	X	X	X	04
GP-3/S-1	1-15-13	10:00	X	X	↓	0-2'	X	X	X	X	X	05
GP-3/S-3	1-15-13	10:30	X	X	↓	4'-6"	X	X	X	X	X	06
REL. BY (SIC)	DATE/TIME	AGENT OF:	DATE/TIME	RECD BY:	DATE/TIME	AGENT:						
PRINT. NME.				PRINT NME								
REL. BY (SIC)	DATE/TIME	RECEIVED FOR LAB BY	DATE/TIME	DATE/TIME	DATE/TIME	REMARKS:						
PRINT. NME.	1-17-13	<u>Den Anderson</u>	1-17-13	17/13	250M	Temp 1.7						
SAMPLER (SIGNATURE)	<u>Den Anderson</u>		<u>Den Anderson</u>									



LIAL# 3011713

February 21, 2013

Page 1 of 3

Soil Mechanics
Robert J. Cardinale
3770 Merrick Road
Seaford NY, 11783

Re: 12-703 219 Hudson St Manhattan

Dear Robert J. Cardinale,

Enclosed please find Long Island Analytical Laboratories' analysis report(s) for sample(s) received on January 17, 2013. The report was issued on February 21, 2013 for the following:

CLIENT ID	ANALYSIS
GP2/S-1	TCLP Lead
GP3/S-3	TCLP Mercury

Samples received at 1.7 ° C

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

Michael Veraldi - Laboratory Director

Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 13:00	Sample ID: GP2/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-03
Matrix: Soil	ELAP: #11693

Metals by EPA 1311 TCLP Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Lead	02/08/2013	EPA 200.7 Rev. 4.4	0.02	<0.02	mg/L	

Date Leached: 02/07/2013
 Date Prepared: 02/08/2013
 Date Analyzed: 02/08/2013

Leach Batch: B306114

Leach Method: EPA 1311 Fluid #1
 Preparation Method: EPA 200.2
 Analytical Method: EPA 200.7 Rev. 4.4



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/15/2013 10:30	Sample ID: GP3/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

Metals by EPA 1311 TCLP Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Mercury	02/11/2013	EPA 245.1	0.02	<0.02	mg/L	

Date Leached: 02/07/2013
 Date Prepared: 02/08/2013
 Date Analyzed: 02/11/2013

Leach Batch: B306114

Leach Method: EPA 1311 Fluid #1
 Preparation Method: EPA 245.1
 Analytical Method: EPA 245.1

Data Qualifiers Key Reference:

MRL Minimum Reporting Limit



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SOIL MECHANICS

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CHAIN OF CUSTODY

3011713

ANALYSIS REQUIRED

LABORATORY: LIA		PROJECT NO. 12-703		TCL Metals		TCL Organic Vol		Soil Pest		Soil PCB		ADDITIONAL REQUIREMENTS		
SAMPLE I.D. NUMBER	DATE	TIME	COMP	GRAY	MATRIX	SAMPLE LOCATION	NUMBER OF CONTAINERS							
GP 1/S-11-12-13	12-13	10:30	Y	Y	S-1	0-2	2	X	X	X	X	X	3011713-01	
GP 1/S-2	↑	10:30	Y	Y	S-1	4-6	2	X	X	X	X	X	02	
GP 2/S-1	↓	1:00	K	Y	S-1	0-2	2	X	X	X	X	X	03	
GP 2/S-2	↓	1:30	Y	Y	S-1	2-4	2	X	X	X	X	X	04	
GP 3/S-11-15-17	12-13	10:00	Y	Y	S-1	0-2	2	X	X	X	X	X	05	
GP 3/S-21-15-17	12-13	10:30	Y	Y	S-1	4-6	2	X	X	X	X	X	06	
SAMPLE #														
3011713-03 → Temp Pb														
3011713-06 → Temp Hg														
RESUBMIT														
AGENTS: AS GULLUM 2/7/13														
AGENTS: AS NOTED														
AGENTS: ADDITIONAL TESTING														
REL BY (SIG.)	DATE/TIME	AGENT OF:	DATE/TIME	AGENT	DATE/TIME	AGENT	DATE/TIME	AGENT	DATE/TIME	AGENT	DATE/TIME	AGENT	DATE/TIME	AGENT
PRINT NVE														
REL BY (SIG.)	DATE/TIME	AGENT OF:	DATE/TIME	AGENT	DATE/TIME	AGENT	DATE/TIME	AGENT	DATE/TIME	AGENT	DATE/TIME	AGENT	DATE/TIME	AGENT
PRINT NVE														
REL BY (SIG.)	DATE/TIME	AGENT OF:	DATE/TIME	AGENT	DATE/TIME	AGENT	DATE/TIME	AGENT	DATE/TIME	AGENT	DATE/TIME	AGENT	DATE/TIME	AGENT
PRINT NVE														
RECEIVED FOR LAB BY: [Signature]														
PRINT NVE: DEN ZUCKERMAN														
SAMPLER NAME (PRINT): [Signature]														
REMARKS: Temp 1.7														



LIAL# 3011812

February 19, 2013

Page 1 of 4

Soil Mechanics
Robert J. Cardinale
3770 Merrick Road
Seaford NY, 11783

Re: 12-703 219 Hudson Street Manhattan

Dear Robert J. Cardinale,

Enclosed please find Long Island Analytical Laboratories' analysis report(s) for sample(s) received on January 18, 2013. The report was issued on February 19, 2013 for the following:

CLIENT ID	ANALYSIS
GP-4/S-1	TCLP Lead, TCLP Mercury
GP-5/S-1	TCLP Lead, TCLP Mercury
GP-6/S-3	TCLP Lead

Samples received at 4.7 ° C

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

Michael Veraldi - Laboratory Director

Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 09:00	Sample ID: GP-4/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-01
Matrix: Soil	ELAP: #11693

Metals by EPA 1311 TCLP Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Lead	02/08/2013	EPA 200.7 Rev. 4.4	0.02	0.08	mg/L	
Date Leached: 02/07/2013		Leach Batch: B306114	Leach Method: EPA 1311 Fluid #1			
Date Prepared: 02/08/2013			Preparation Method: EPA 200.2			
Date Analyzed: 02/08/2013			Analytical Method: EPA 200.7 Rev. 4.4			
Mercury	02/11/2013	EPA 245.1	0.02	<0.02	mg/L	
Date Leached: 02/07/2013		Leach Batch: B306114	Leach Method: EPA 1311 Fluid #1			
Date Prepared: 02/08/2013			Preparation Method: EPA 245.1			
Date Analyzed: 02/11/2013			Analytical Method: EPA 245.1			



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 10:00	Sample ID: GP-5/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-02
Matrix: Soil	ELAP: #11693

Metals by EPA 1311 TCLP Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Lead	02/08/2013	EPA 200.7 Rev. 4.4	0.02	<0.02	mg/L	
Date Leached: 02/07/2013		Leach Batch: B306114	Leach Method: EPA 1311 Fluid #1			
Date Prepared: 02/08/2013			Preparation Method: EPA 200.2			
Date Analyzed: 02/08/2013			Analytical Method: EPA 200.7 Rev. 4.4			
Mercury	02/11/2013	EPA 245.1	0.02	<0.02	mg/L	
Date Leached: 02/07/2013		Leach Batch: B306114	Leach Method: EPA 1311 Fluid #1			
Date Prepared: 02/08/2013			Preparation Method: EPA 245.1			
Date Analyzed: 02/11/2013			Analytical Method: EPA 245.1			



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Metals by EPA 1311 TCLP Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Lead	02/08/2013	EPA 200.7 Rev. 4.4	0.02	0.10	mg/L	

Date Leached: 02/07/2013
 Date Prepared: 02/08/2013
 Date Analyzed: 02/08/2013

Leach Batch: B306114

Leach Method: EPA 1311 Fluid #1
 Preparation Method: EPA 200.2
 Analytical Method: EPA 200.7 Rev. 4.4

Data Qualifiers Key Reference:

MRL Minimum Reporting Limit



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Metals by EPA 1311 TCLP Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Cadmium	02/08/2013	EPA 200.7 Rev. 4.4	0.02	0.03	mg/L	
Lead	02/08/2013	EPA 200.7 Rev. 4.4	0.02	0.10	mg/L	

Date Leached: 02/07/2013

Leach Batch: B306114

Leach Method: EPA 1311 Fluid #1

Date Prepared: 02/08/2013

Preparation Method: EPA 200.2

Date Analyzed: 02/08/2013

Analytical Method: EPA 200.7 Rev. 4.4

Data Qualifiers Key Reference:

- 3.A Minimum detection limit raised due to matrix interference.
- 3.E Compound reported at a dilution factor
- 4.F Spike recovery does not meet QC criteria due to high target compound concentration
- 4.G Spike recovery out of range due to matrix interference
- 4.H Spike recovery out of range due to matrix inconsistency
- 4.N LCS recovery below QC limit
- 5.K Reported as TIC
- MRL Minimum Reporting Limit



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(2)

SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK • (516) 221-7500

CHAIN OF CUSTODY

3011812

ANALYSIS REQUIRED

LABORATORY: LFA		PROJECT NO.		CONTAINERS		ANALYSIS REQUIRED		ADDITIONAL REQUIREMENTS				
PROJECT NAME: MANHATTAN		PROJECT NO. 12-703		NUMBER OF CONTAINERS		ANALYSIS REQUIRED		ADDITIONAL REQUIREMENTS				
PROJECT LOCATION: 219 Hudson St.		SAMPLE LOCATION		NUMBER OF CONTAINERS		ANALYSIS REQUIRED		ADDITIONAL REQUIREMENTS				
SAMPLE I.D. NUMBER	DATE	TIME	QTY	MATRIX	SAMPLE LOCATION	NUMBER OF CONTAINERS	THL Metals	TCL Organics	including Vol	Svol	pest	PCBs
P-4/S-1	1-16-13	9:00	27	Soil	0-2' B65	2	X	X	X	X	X	X
P-5/S-1	"	10:00	X	"	0-2' B65	2	X	X	X	X	X	X
P-6/S-3	"	11:00	X	"	4-6' B65	2	X	X	X	X	X	X
SAMPLE #												
3011812-03 → Top Cd. } ADDITIONAL TESTING												
3011812-01, 02, 03 → Top Pb } AS NOTED												
3011812-01, 02 → Top Hg } AS NOTED												
RECEIVED BY: [Signature]												
REL BY (SIG)	DATE/TIME	AGENT OF:	DATE/TIME	AGENT:	DATE/TIME	AGENT:						
PRINT. NAME												
REL BY (SIG)	DATE/TIME	RECEIVED FOR LAB BY:	DATE/TIME	AGENT:	DATE/TIME	AGENT:						
PRINT. NAME												
SAMPLER (SIGNATURE): [Signature]	DATE/TIME: 1/13/13	SAMPLER NAME (PRINT): Steve Anderson	DATE/TIME: 1/13/13	AGENT: [Signature]	DATE/TIME: 12:21 PM	AGENT: [Signature]	REMARKS: Temp [Signature]					

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LIAL# 3012405

February 01, 2013

Page 1 of 32

Soil Mechanics
Robert J. Cardinale
3770 Merrick Road
Seaford NY, 11783

Re: 12-703 219 Hudson St Manhattan

Dear Robert J. Cardinale,

Enclosed please find Long Island Analytical Laboratories' analysis report(s) for sample(s) received on January 24, 2013. The report was issued on February 01, 2013 for the following:

CLIENT ID	ANALYSIS
MW-1	Aluminum-Filtered, EPA 608, EPA 8081 B, EPA 8260C, EPA 8270 D, K by ICP-D, Mg by ICP-D, Na by ICP-D, Sb by ICP-D, TAL Target Analyte List, Tl by ICP-D, Total Arsenic-Filtered, Total Barium-Filtered, Total Beryllium-Filtered, Total Cadmium-Filtered, Total Calcium-Filtered, Total Chromium-Filtered, Total Cobalt-Filtered, Total Copper-Filtered, Total Iron-Filtered, Total Lead-Filtered, Total Manganese-Filtered, Total Mercury-Filtered, Total Nickel-Filtered, Total Selenium-Filtered, Total Silver-Filtered, Total Zinc-Filtered, V by ICP-D
MW-2	Aluminum-Filtered, EPA 608, EPA 8081 B, EPA 8260C, EPA 8270 D, K by ICP-D, Mg by ICP-D, Na by ICP-D, Sb by ICP-D, TAL Target Analyte List, Tl by ICP-D, Total Arsenic-Filtered, Total Barium-Filtered, Total Beryllium-Filtered, Total Cadmium-Filtered, Total Calcium-Filtered, Total Chromium-Filtered, Total Cobalt-Filtered, Total Copper-Filtered, Total Iron-Filtered, Total Lead-Filtered, Total Manganese-Filtered, Total Mercury-Filtered, Total Nickel-Filtered, Total Selenium-Filtered, Total Silver-Filtered, Total Zinc-Filtered, V by ICP-D
MW-3	Aluminum-Filtered, EPA 608, EPA 8081 B, EPA 8260C, EPA 8270 D, K by ICP-D, Mg by ICP-D, Na by ICP-D, Sb by ICP-D, TAL Target Analyte List, Tl by ICP-D, Total Arsenic-Filtered, Total Barium-Filtered, Total Beryllium-Filtered, Total Cadmium-Filtered, Total Calcium-Filtered, Total Chromium-Filtered, Total Cobalt-Filtered, Total Copper-Filtered, Total Iron-Filtered, Total Lead-Filtered, Total Manganese-Filtered, Total Mercury-Filtered, Total Nickel-Filtered, Total Selenium-Filtered, Total Silver-Filtered, Total Zinc-Filtered, V by ICP-D

Samples received at 3.7 ° C

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,



Long Island Analytical Laboratories, Inc.

Michael Veraldi - Laboratory Director



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	25.0	<25.0	ug/L	3.A
Chloromethane	74-87-3	25.0	<25.0	ug/L	3.A
Vinyl chloride	75-01-4	25.0	<25.0	ug/L	3.A
Bromomethane	74-83-9	25.0	<25.0	ug/L	3.A
Chloroethane	75-00-3	25.0	<25.0	ug/L	3.A
Trichlorofluoromethane	75-69-4	25.0	<25.0	ug/L	3.A
Acetone	67-64-1	50.0	66.4	ug/L	3.E
1,1-Dichloroethylene	75-35-4	25.0	<25.0	ug/L	3.A
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	25.0	<25.0	ug/L	3.A
Methyl Acetate	79-20-9	25.0	<25.0	ug/L	3.A
1,1,1-Trichloroethane	71-55-6	25.0	<25.0	ug/L	3.A
Methylene Chloride	75-09-2	25.0	<25.0	ug/L	3.A
Carbon disulfide	75-15-0	25.0	<25.0	ug/L	3.A
Methyl-tert-Butyl Ether	1634-04-4	25.0	<25.0	ug/L	3.A
trans-1,2-Dichloroethylene	156-60-5	25.0	<25.0	ug/L	3.A
1,1-Dichloroethane	75-34-3	25.0	<25.0	ug/L	3.A
Methyl Ethyl Ketone (2-Butanone)	78-93-3	25.0	<25.0	ug/L	3.A
cis-1,2-Dichloroethylene	156-59-2	25.0	<25.0	ug/L	3.A
Bromochloromethane	74-97-5	25.0	<25.0	ug/L	3.A
Chloroform	67-66-3	25.0	<25.0	ug/L	3.A
1,2-Dichloroethane	107-06-2	25.0	<25.0	ug/L	3.A
Carbon Tetrachloride	56-23-5	25.0	<25.0	ug/L	3.A
Benzene	71-43-2	3.50	88.5	ug/L	3.E
Trichloroethylene	79-01-6	25.0	<25.0	ug/L	3.A
1,2-Dichloropropane	78-87-5	25.0	<25.0	ug/L	3.A
Bromodichloromethane	75-27-4	25.0	<25.0	ug/L	3.A
Methyl Isobutyl Ketone	108-10-1	25.0	<25.0	ug/L	3.A
cis-1,3-Dichloropropylene	10061-01-5	25.0	<25.0	ug/L	3.A
Toluene	108-88-3	25.0	<25.0	ug/L	3.A
trans-1,3-Dichloropropylene	10061-02-6	25.0	<25.0	ug/L	3.A
1,1,2-Trichloroethane	79-00-5	25.0	<25.0	ug/L	3.A
Methyl Butyl Ketone (2-Hexanone)	591-78-6	25.0	<25.0	ug/L	3.A



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dibromochloromethane	124-48-1	25.0	<25.0	ug/L	3.A
Tetrachloroethylene	127-18-4	25.0	<25.0	ug/L	3.A
1,2-Dibromoethane	106-93-4	25.0	<25.0	ug/L	3.A
Chlorobenzene	108-90-7	25.0	<25.0	ug/L	3.A
Ethylbenzene	100-41-4	25.0	73.6	ug/L	3.E
m,p-Xylenes	108-38-3/106-42-3	50.0	<50.0	ug/L	3.A
Styrene	100-42-5	25.0	<25.0	ug/L	3.A
o-Xylene	95-47-6	25.0	<25.0	ug/L	3.A
Bromoform	75-25-2	25.0	<25.0	ug/L	3.A
1,1,1,2-Tetrachloroethane	79-34-5	25.0	<25.0	ug/L	3.A
Isopropylbenzene (Cumene)	98-82-8	25.0	141	ug/L	3.E
1,3-Dichlorobenzene	541-73-1	25.0	<25.0	ug/L	3.A
1,4-Dichlorobenzene	106-46-7	25.0	<25.0	ug/L	3.A
1,2-Dichlorobenzene	95-50-1	25.0	<25.0	ug/L	3.A
1,2-Dibromo-3-chloropropane	96-12-8	25.0	<25.0	ug/L	3.A
1,2,4-Trichlorobenzene	120-82-1	25.0	<25.0	ug/L	3.A
1,2,3-Trichlorobenzene	87-61-6	25.0	<25.0	ug/L	3.A
1H-Indene, 2,3-dihydro-4-methyl-	000824-22-6	NA	283	ug/L	3.E, 5.K
Azulene	000275-51-4	NA	267	ug/L	3.E, 5.K
Benzene, 1,2,3,5-tetramethyl-	000527-53-7	NA	162	ug/L	3.E, 5.K
Benzene, 1,2,4,5-tetramethyl-	000095-93-2	NA	264	ug/L	3.E, 5.K
Benzene, 1,2-diethyl-	000135-01-3	NA	151	ug/L	3.E, 5.K
Benzene, 1-ethenyl-4-ethyl-	003454-07-7	NA	409	ug/L	3.E, 5.K
Benzene, 1-methyl-2-(1-methylethyl)-	000527-84-4	NA	173	ug/L	3.E, 5.K
Benzene, 4-ethyl-1,2-dimethyl-	000934-80-5	NA	441	ug/L	3.E, 5.K
Butane, 2-methyl-	000078-78-4	NA	195	ug/L	3.E, 5.K
Cyclohexane	110-82-7	NA	267	ug/L	3.E, 5.K
Cyclohexane, methyl-	000108-87-2	NA	276	ug/L	3.E, 5.K
Cyclopentane, methyl-	000096-37-7	NA	588	ug/L	3.E, 5.K
Cyclopropane, 1,2-dimethyl-, cis-	000930-18-7	NA	164	ug/L	3.E, 5.K
Indan, 1-methyl-	000767-58-8	NA	465	ug/L	3.E, 5.K



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Pentane, 2-methyl-	000107-83-5	NA	210	ug/L	3.E.5.K
Pentane, 3-methyl-	000096-14-0	NA	156	ug/L	3.E.5.K

Date Prepared: 01/29/2013

Preparation Method: EPA 5030 C

Date Analyzed: 01/29/2013

Analytical Method: EPA 8260 C



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	2.00	<2.00	ug/L	
Acetophenone	989-86-2	2.00	<2.00	ug/L	
Phenol	108-95-2	5.00	<5.00	ug/L	
2-Chlorophenol	95-57-8	5.00	<5.00	ug/L	
Caprolactam	105-60-2	2.00	<2.00	ug/L	
Bis(2-Chloroethyl)ether	111-44-4	5.00	<5.00	ug/L	
1,1-Biphenyl	92-52-4	2.00	<2.00	ug/L	
1,2-Diphenylhydrazine	122-66-7	2.00	<2.00	ug/L	
2-Methylphenol	95-48-7	5.00	<5.00	ug/L	
Atrazine	1912-24-9	2.00	<2.00	ug/L	
Bis(2-chloroisopropyl)ether	39638-32-9	5.00	<5.00	ug/L	
Hexachloroethane	67-72-1	5.00	<5.00	ug/L	
3/4-Methylphenol	108-39-4/106-44-5	5.00	<5.00	ug/L	
N-Nitroso-di-n-propylamine	621-64-7	5.00	<5.00	ug/L	
Nitrobenzene	98-95-3	5.00	<5.00	ug/L	
Isophorone	78-59-1	5.00	<5.00	ug/L	
2-Nitrophenol	88-75-5	5.00	<5.00	ug/L	
2,4-Dimethylphenol	105-67-9	5.00	<5.00	ug/L	
bis(2-Chloroethoxy)methane	111-91-1	5.00	<5.00	ug/L	
2,4-Dichlorophenol	120-83-2	5.00	<5.00	ug/L	
Naphthalene	91-20-3	100	836	ug/L	3.E
4-Chloroaniline	106-47-8	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
4-Chloro-3-methylphenol	59-50-7	5.00	<5.00	ug/L	
2-Methylnaphthalene	91-57-6	100	876	ug/L	3.E
Hexachlorocyclopentadiene	77-47-4	5.00	<5.00	ug/L	
2,4,6-Trichlorophenol	88-06-2	5.00	<5.00	ug/L	
2,4,5-Trichlorophenol	95-95-4	5.00	<5.00	ug/L	
2-Chloronaphthalene	91-58-7	5.00	<5.00	ug/L	
2-Nitroaniline	88-74-4	5.00	<5.00	ug/L	
Dimethyl phthalate	131-11-3	5.00	<5.00	ug/L	
Acenaphthylene	208-96-8	5.00	<5.00	ug/L	



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	5.00	<5.00	ug/L	
3-Nitroaniline	99-09-2	5.00	<5.00	ug/L	
Acenaphthene	83-32-9	5.00	7.44	ug/L	
2,4-Dinitrophenol	51-28-5	5.00	<5.00	ug/L	
Dibenzofuran	132-64-9	5.00	<5.00	ug/L	
4-Nitrophenol	100-02-7	5.00	<5.00	ug/L	
2,4-Dinitrotoluene	121-14-2	5.00	<5.00	ug/L	
Fluorene	86-73-7	5.00	8.72	ug/L	
Diethyl phthalate	84-66-2	5.00	<5.00	ug/L	
4-Chlorophenyl phenyl ether	7005-72-3	5.00	<5.00	ug/L	
4-Nitroaniline	100-01-6	5.00	<5.00	ug/L	
4,6-Dinitro-2-methylphenol	534-52-1	5.00	<5.00	ug/L	
N-Nitrosodiphenylamine	86-30-6	5.00	<5.00	ug/L	
4-Bromophenyl phenyl ether	101-55-3	5.00	<5.00	ug/L	
Hexachlorobenzene	118-74-1	5.00	<5.00	ug/L	
Pentachlorophenol	87-86-5	5.00	<5.00	ug/L	
Phenanthrene	85-01-8	5.00	21.6	ug/L	
Anthracene	120-12-7	5.00	<5.00	ug/L	
Carbazole	86-74-8	5.00	<5.00	ug/L	
Di-n-butyl phthalate	84-74-2	5.00	<5.00	ug/L	
Fluoranthene	206-44-0	5.00	9.56	ug/L	
Pyrene	129-00-0	5.00	10.6	ug/L	
Butyl benzyl phthalate	85-68-7	5.00	<5.00	ug/L	
Benzo(a)anthracene	56-55-3	5.00	<5.00	ug/L	
Chrysene	218-01-9	5.00	<5.00	ug/L	
3,3'-Dichlorobenzidine	91-94-1	5.00	<5.00	ug/L	
Bis(2-Ethylhexyl)phthalate	117-81-7	5.00	<5.00	ug/L	
Di-n-octyl phthalate	117-84-0	5.00	<5.00	ug/L	
Benzo(b)fluoranthene	205-99-2	5.00	<5.00	ug/L	
Benzo(k)fluoranthene	207-08-9	5.00	<5.00	ug/L	
Benzo(a)pyrene	50-32-8	5.00	<5.00	ug/L	



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	5.00	<5.00	ug/L	
Dibenzo(a,h)anthracene	53-70-3	5.00	<5.00	ug/L	
Benzo(g,h,i)perylene	191-24-2	5.00	<5.00	ug/L	
Benzene, 1,2-diethyl-	000135-01-3	NA	61.9	ug/L	5.K
Benzene, 1-ethyl-3,5-dimethyl- (01)	000934-74-7	NA	52.2	ug/L	5.K
Benzene, 1-ethyl-3,5-dimethyl- (02)	000934-74-7	NA	47.2	ug/L	5.K
Benzene, 1-methyl-4-propyl-	001074-55-1	NA	88.5	ug/L	5.K
Benzene, 4-ethyl-1,2-dimethyl-	000934-80-5	NA	85.8	ug/L	5.K
Benzene, propyl-	000103-65-1	NA	149	ug/L	5.K
Decane, 2,6,7-trimethyl-	062108-25-2	NA	47.9	ug/L	5.K
Decane, 2-methyl-	006975-98-0	NA	61.9	ug/L	5.K
Heptane, 2,6-dimethyl-	001072-05-5	NA	33.3	ug/L	5.K
Hexadecane	000544-76-3	NA	33.7	ug/L	5.K
Hexane, 2,2,5-trimethyl-	003522-94-9	NA	42.1	ug/L	5.K
Indane	000496-11-7	NA	78.6	ug/L	5.K
Naphthalene, 1,5-dimethyl-	000571-61-9	NA	74.7	ug/L	5.K
Naphthalene, 1-ethyl-	001127-76-0	NA	46.6	ug/L	5.K
Naphthalene, 2,3-dimethyl-	000581-40-8	NA	132	ug/L	5.K
Nonane, 4-methyl-	017301-94-9	NA	85.5	ug/L	5.K
Octane, 2-methyl-	003221-61-2	NA	73.4	ug/L	5.K

Date Prepared: 01/28/2013

Date Analyzed: 01/28/2013

Preparation Method: EPA 3510C

Analytical Method: EPA 8270 D



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	2.00	<2.00	ug/L	
gamma-BHC	58-89-9	2.00	<2.00	ug/L	
beta-BHC	319-85-7	2.00	<2.00	ug/L	
delta-BHC	319-86-8	2.00	<2.00	ug/L	
Heptachlor	76-44-8	2.00	<2.00	ug/L	
Aldrin	309-00-2	2.00	<2.00	ug/L	
Heptachlor Epoxide	1024-57-3	2.00	<2.00	ug/L	
trans-Chlordane	5103-74-2	2.00	<2.00	ug/L	
cis-Chlordane	5103-71-9	2.00	<2.00	ug/L	
4,4'-DDE	72-55-9	2.00	<2.00	ug/L	
Endosulfan I	959-98-8	2.00	<2.00	ug/L	
Dieldrin	60-57-1	2.00	<2.00	ug/L	
Endrin	72-20-8	2.00	<2.00	ug/L	
4,4'-DDD	72-54-8	2.00	<2.00	ug/L	
Endosulfan II	33213-65-9	2.00	<2.00	ug/L	
4,4'-DDT	50-29-3	2.00	<2.00	ug/L	
Endrin Aldehyde	7421-93-4	2.00	<2.00	ug/L	
Methoxychlor	72-43-5	2.00	<2.00	ug/L	
Endosulfan Sulfate	1031-07-8	2.00	<2.00	ug/L	
Endrin Ketone	53494-70-5	2.00	<2.00	ug/L	
Toxaphene	8001-35-2	2.00	<2.00	ug/L	
Chlordane	12789-03-6	2.00	<2.00	ug/L	

Date Prepared: 01/29/2013

Preparation Method: EPA 3510C

Date Analyzed: 01/30/2013

Analytical Method: EPA 8081B



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	0.500	<0.500	ug/L	
Aroclor-1260	11096-82-5	0.500	<0.500	ug/L	
Aroclor-1254	11097-69-1	0.500	<0.500	ug/L	
Aroclor-1242	53469-21-9	0.500	<0.500	ug/L	
Aroclor-1248	12672-29-6	0.500	<0.500	ug/L	
Aroclor-1221	11104-28-2	0.500	<0.500	ug/L	
Aroclor-1232	11141-16-5	0.500	<0.500	ug/L	

Date Prepared: 01/25/2013

Date Analyzed: 01/29/2013

Preparation Method: EPA 608

Analytical Method: EPA 608



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/25/2013	EPA 200.7 Rev. 4.4	0.05	3.50	mg/L	
Calcium	01/25/2013	EPA 200.7 Rev. 4.4	1.00	454	mg/L	3.E
Antimony	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Arsenic	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Barium	01/25/2013	EPA 200.7 Rev. 4.4	0.01	0.62	mg/L	
Beryllium	01/25/2013	EPA 200.7 Rev. 4.4	0.01	<0.01	mg/L	
Cadmium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Chromium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cobalt	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Copper	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Iron	01/25/2013	EPA 200.7 Rev. 4.4	0.10	11.7	mg/L	
Lead	01/25/2013	EPA 200.7 Rev. 4.4	0.015	0.019	mg/L	
Magnesium	01/25/2013	EPA 200.7 Rev. 4.4	1.00	174	mg/L	3.E
Manganese	01/25/2013	EPA 200.7 Rev. 4.4	0.05	4.53	mg/L	
Nickel	01/25/2013	EPA 200.7 Rev. 4.4	0.02	<0.02	mg/L	
Potassium	01/25/2013	EPA 200.7 Rev. 4.4	0.10	58.6	mg/L	
Selenium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Silver	01/25/2013	EPA 200.7 Rev. 4.4	0.005	<0.005	mg/L	
Sodium	01/25/2013	EPA 200.7 Rev. 4.4	10.0	893	mg/L	3.E
Thallium	01/25/2013	EPA 200.7 Rev. 4.4	0.50	<0.50	mg/L	
Vanadium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Zinc	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	

Date Prepared: 01/25/2013

Preparation Method: EPA 200.2

Date Analyzed: 01/25/2013

Analytical Method: EPA 200.7 Rev. 4.4

Mercury	01/29/2013	EPA 245.1 Rev. 3.0	0.002	<0.002	mg/L	
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Date Prepared: 01/25/2013

Preparation Method: EPA 245.1

Date Analyzed: 01/29/2013

Analytical Method: EPA 245.1 Rev. 3.0

Cyanide	01/30/2013	SM 18-21 4500-CN E (99)	0.002	<0.002	mg/L	
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Date Prepared: 01/28/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/30/2013

Analytical Method: SM 18-21 4500-CN E (9)



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Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Dissolved Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Calcium	01/28/2013	EPA 200.7 Rev. 4.4	0.50	343	mg/L	3.E
Antimony	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Arsenic	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Barium	01/28/2013	EPA 200.7 Rev. 4.4	1.00	1.44	mg/L	
Beryllium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cadmium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Chromium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cobalt	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Copper	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Iron	01/28/2013	EPA 200.7 Rev. 4.4	0.05	7.35	mg/L	
Lead	01/28/2013	EPA 200.7 Rev. 4.4	0.005	0.04	mg/L	
Magnesium	01/28/2013	EPA 200.7 Rev. 4.4	0.50	150	mg/L	3.E
Manganese	01/28/2013	EPA 200.7 Rev. 4.4	0.05	2.34	mg/L	
Nickel	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Potassium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	25.2	mg/L	4.G
Selenium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Silver	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Sodium	01/28/2013	EPA 200.7 Rev. 4.4	0.50	489	mg/L	3.E, 4.F
Thallium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Vanadium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Zinc	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	

Date Prepared: 01/25/2013

Preparation Method: EPA 200.2

Date Analyzed: 01/28/2013

Analytical Method: EPA 200.7 Rev. 4.4

Mercury	01/29/2013	EPA 245.1 Rev. 3.0	0.002	<0.002	mg/L	
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Date Prepared: 01/25/2013

Preparation Method: EPA 245.1

Date Analyzed: 01/29/2013

Analytical Method: EPA 245.1 Rev. 3.0



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.00	<5.00	ug/L	
Chloromethane	74-87-3	5.00	<5.00	ug/L	
Vinyl chloride	75-01-4	5.00	<5.00	ug/L	
Bromomethane	74-83-9	5.00	<5.00	ug/L	
Chloroethane	75-00-3	5.00	<5.00	ug/L	
Trichlorofluoromethane	75-69-4	5.00	<5.00	ug/L	
Acetone	67-64-1	10.0	<10.0	ug/L	
1,1-Dichloroethylene	75-35-4	5.00	<5.00	ug/L	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.00	<5.00	ug/L	
Methyl Acetate	79-20-9	5.00	<5.00	ug/L	
1,1,1-Trichloroethane	71-55-6	5.00	<5.00	ug/L	
Methylene Chloride	75-09-2	5.00	<5.00	ug/L	
Carbon disulfide	75-15-0	5.00	<5.00	ug/L	
Methyl-tert-Butyl Ether	1634-04-4	5.00	<5.00	ug/L	
trans-1,2-Dichloroethylene	156-60-5	5.00	<5.00	ug/L	
1,1-Dichloroethane	75-34-3	5.00	<5.00	ug/L	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	5.00	<5.00	ug/L	
cis-1,2-Dichloroethylene	156-59-2	5.00	<5.00	ug/L	
Bromochloromethane	74-97-5	5.00	<5.00	ug/L	
Chloroform	67-66-3	5.00	<5.00	ug/L	
1,2-Dichloroethane	107-06-2	5.00	<5.00	ug/L	
Carbon Tetrachloride	56-23-5	5.00	<5.00	ug/L	
Benzene	71-43-2	0.700	4.74	ug/L	
Trichloroethylene	79-01-6	5.00	<5.00	ug/L	
1,2-Dichloropropane	78-87-5	5.00	<5.00	ug/L	
Bromodichloromethane	75-27-4	5.00	<5.00	ug/L	
Methyl Isobutyl Ketone	108-10-1	5.00	<5.00	ug/L	
cis-1,3-Dichloropropylene	10061-01-5	5.00	<5.00	ug/L	
Toluene	108-88-3	5.00	<5.00	ug/L	
trans-1,3-Dichloropropylene	10061-02-6	5.00	<5.00	ug/L	
1,1,2-Trichloroethane	79-00-5	5.00	<5.00	ug/L	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	5.00	<5.00	ug/L	



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Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dibromochloromethane	124-48-1	5.00	<5.00	ug/L	
Tetrachloroethylene	127-18-4	5.00	<5.00	ug/L	
1,2-Dibromoethane	106-93-4	5.00	<5.00	ug/L	
Chlorobenzene	108-90-7	5.00	<5.00	ug/L	
Ethylbenzene	100-41-4	5.00	<5.00	ug/L	
m,p-Xylenes	108-38-3/106-42-3	10.0	<10.0	ug/L	
Styrene	100-42-5	5.00	<5.00	ug/L	
o-Xylene	95-47-6	5.00	<5.00	ug/L	
Bromoform	75-25-2	5.00	<5.00	ug/L	
1,1,2,2-Tetrachloroethane	79-34-5	5.00	<5.00	ug/L	
Isopropylbenzene (Cumene)	98-82-8	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	<5.00	ug/L	
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2,3-Trichlorobenzene	87-61-6	5.00	<5.00	ug/L	
1H-Indene,2,3-dihydro-2,2-dimethyl-	020836-11-7	NA	12.1	ug/L	5.K
Benzene, 1,2,4,5-tetramethyl-	000095-93-2	NA	18.1	ug/L	5.K
Benzene, 1,2-diethyl-	000135-01-3	NA	11.8	ug/L	5.K
Benzene, 1-ethyl-2,3-dimethyl-	000933-98-2	NA	14.1	ug/L	5.K
Benzene, 1-ethyl-4-methyl-	000622-96-8	NA	11.4	ug/L	5.K
Benzene, 1-methyl-2-(1-methyl-2-propenyl)-	097664-19-2	NA	22.0	ug/L	5.K
Benzene, 1-methyl-2-propyl-	001074-17-5	NA	8.70	ug/L	5.K
Butane, 2,2,3,3-tetramethyl-	000594-82-1	NA	8.65	ug/L	5.K
Cyclohexane, 1,1-dimethyl-	000590-66-9	NA	8.44	ug/L	5.K
Cyclohexane, 1,2-dimethyl-, trans-	006876-23-9	NA	9.92	ug/L	5.K
Cyclohexane, methyl-	000108-87-2	NA	12.6	ug/L	5.K
Cyclopentane, 1,2-dimethyl-, trans-	000822-50-4	NA	14.0	ug/L	5.K
Cyclopentene, 1,2,3-trimethyl-	000473-91-6	NA	21.1	ug/L	5.K
Cyclopentene, 1,5-dimethyl-	016491-15-9	NA	38.6	ug/L	5.K



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Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indan, 1-methyl- (01)	000767-58-8	NA	53.2	ug/L	5.K
Indan, 1-methyl- (02)	000767-58-8	NA	25.8	ug/L	5.K

Date Prepared: 01/29/2013

Preparation Method: EPA 5030 C

Date Analyzed: 01/29/2013

Analytical Method: EPA 8260 C



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	2.00	<2.00	ug/L	
Acetophenone	989-86-2	2.00	<2.00	ug/L	
Phenol	108-95-2	5.00	<5.00	ug/L	
2-Chlorophenol	95-57-8	5.00	<5.00	ug/L	
Caprolactam	105-60-2	2.00	<2.00	ug/L	
Bis(2-Chloroethyl)ether	111-44-4	5.00	<5.00	ug/L	
1,1-Biphenyl	92-52-4	2.00	<2.00	ug/L	
1,2-Diphenylhydrazine	122-66-7	2.00	<2.00	ug/L	
2-Methylphenol	95-48-7	5.00	<5.00	ug/L	
Atrazine	1912-24-9	2.00	<2.00	ug/L	
Bis(2-chloroisopropyl)ether	39638-32-9	5.00	<5.00	ug/L	
Hexachloroethane	67-72-1	5.00	<5.00	ug/L	
3/4-Methylphenol	108-39-4/106-44-5	5.00	<5.00	ug/L	
N-Nitroso-di-n-propylamine	621-64-7	5.00	<5.00	ug/L	
Nitrobenzene	98-95-3	5.00	<5.00	ug/L	
Isophorone	78-59-1	5.00	<5.00	ug/L	
2-Nitrophenol	88-75-5	5.00	<5.00	ug/L	
2,4-Dimethylphenol	105-67-9	5.00	<5.00	ug/L	
bis(2-Chloroethoxy)methane	111-91-1	5.00	<5.00	ug/L	
2,4-Dichlorophenol	120-83-2	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	16.5	ug/L	
4-Chloroaniline	106-47-8	5.00	<5.00	ug/L	4.G
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
4-Chloro-3-methylphenol	59-50-7	5.00	<5.00	ug/L	
2-Methylnaphthalene	91-57-6	5.00	15.4	ug/L	
Hexachlorocyclopentadiene	77-47-4	5.00	<5.00	ug/L	
2,4,6-Trichlorophenol	88-06-2	5.00	<5.00	ug/L	
2,4,5-Trichlorophenol	95-95-4	5.00	<5.00	ug/L	
2-Chloronaphthalene	91-58-7	5.00	<5.00	ug/L	
2-Nitroaniline	88-74-4	5.00	<5.00	ug/L	
Dimethyl phthalate	131-11-3	5.00	<5.00	ug/L	
Acenaphthylene	208-96-8	5.00	<5.00	ug/L	



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	5.00	<5.00	ug/L	
3-Nitroaniline	99-09-2	5.00	<5.00	ug/L	
Acenaphthene	83-32-9	5.00	<5.00	ug/L	
2,4-Dinitrophenol	51-28-5	5.00	<5.00	ug/L	
Dibenzofuran	132-64-9	5.00	<5.00	ug/L	
4-Nitrophenol	100-02-7	5.00	<5.00	ug/L	
2,4-Dinitrotoluene	121-14-2	5.00	<5.00	ug/L	4.G
Fluorene	86-73-7	5.00	<5.00	ug/L	
Diethyl phthalate	84-66-2	5.00	<5.00	ug/L	
4-Chlorophenyl phenyl ether	7005-72-3	5.00	<5.00	ug/L	
4-Nitroaniline	100-01-6	5.00	<5.00	ug/L	
4,6-Dinitro-2-methylphenol	534-52-1	5.00	<5.00	ug/L	
N-Nitrosodiphenylamine	86-30-6	5.00	<5.00	ug/L	
4-Bromophenyl phenyl ether	101-55-3	5.00	<5.00	ug/L	
Hexachlorobenzene	118-74-1	5.00	<5.00	ug/L	
Pentachlorophenol	87-86-5	5.00	<5.00	ug/L	
Phenanthrene	85-01-8	5.00	<5.00	ug/L	
Anthracene	120-12-7	5.00	<5.00	ug/L	
Carbazole	86-74-8	5.00	<5.00	ug/L	
Di-n-butyl phthalate	84-74-2	5.00	<5.00	ug/L	
Fluoranthene	206-44-0	5.00	<5.00	ug/L	
Pyrene	129-00-0	5.00	<5.00	ug/L	
Butyl benzyl phthalate	85-68-7	5.00	<5.00	ug/L	
Benzo(a)anthracene	56-55-3	5.00	<5.00	ug/L	
Chrysene	218-01-9	5.00	<5.00	ug/L	
3,3'-Dichlorobenzidine	91-94-1	5.00	<5.00	ug/L	
Bis(2-Ethylhexyl)phthalate	117-81-7	5.00	<5.00	ug/L	
Di-n-octyl phthalate	117-84-0	5.00	<5.00	ug/L	
Benzo(b)fluoranthene	205-99-2	5.00	<5.00	ug/L	
Benzo(k)fluoranthene	207-08-9	5.00	<5.00	ug/L	
Benzo(a)pyrene	50-32-8	5.00	<5.00	ug/L	



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Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	5.00	<5.00	ug/L	
Dibenzo(a,h)anthracene	53-70-3	5.00	<5.00	ug/L	
Benzo(g,h,i)perylene	191-24-2	5.00	<5.00	ug/L	
1,4-Methanonaphthalene, 1,4-dihydro-	004453-90-1	NA	17.7	ug/L	5.K
1H-Indene, 2,3-dihydro-4-methyl-	000824-22-6	NA	24.7	ug/L	5.K
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	170	ug/L	5.K
Benzene, (1-methyl-1-propenyl)-, (E)-	000768-00-3	NA	26.7	ug/L	5.K
Benzene, (1-methylethyl)-	000098-82-8	NA	10.8	ug/L	5.K
Benzene, 1,2,3,4-tetramethyl-	000488-23-3	NA	30.2	ug/L	5.K
Benzene, 1,3-diethyl-	000141-93-5	NA	32.3	ug/L	5.K
Benzene, 1,4-diethyl-	000105-05-5	NA	42.8	ug/L	5.K
Benzene, 1-methyl-2-(2-propenyl)-	001587-04-8	NA	16.0	ug/L	5.K
Benzene, 1-methyl-4-propyl-	001074-55-1	NA	14.8	ug/L	5.K
Benzene, propyl-	000103-65-1	NA	21.2	ug/L	5.K
Benzoic acid, 2,4,5-trimethyl-	000528-90-5	NA	12.8	ug/L	5.K
Ethylbenzene	100-41-4	NA	9.48	ug/L	5.K
Indane	000496-11-7	NA	60.6	ug/L	5.K
Lauric anhydride	000645-66-9	NA	61.7	ug/L	5.K
Naphthalene, 1,6-dimethyl-	000575-43-9	NA	15.6	ug/L	5.K
n-Hexadecanoic acid	000057-10-3	NA	51.6	ug/L	5.K
Tetradecanoic Acid	544-63-8	NA	12.7	ug/L	

Date Prepared: 01/28/2013

Preparation Method: EPA 3510C

Date Analyzed: 01/28/2013

Analytical Method: EPA 8270 D



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	2.00	<2.00	ug/L	
gamma-BHC	58-89-9	2.00	<2.00	ug/L	
beta-BHC	319-85-7	2.00	<2.00	ug/L	
delta-BHC	319-86-8	2.00	<2.00	ug/L	
Heptachlor	76-44-8	2.00	<2.00	ug/L	
Aldrin	309-00-2	2.00	<2.00	ug/L	
Heptachlor Epoxide	1024-57-3	2.00	<2.00	ug/L	
trans-Chlordane	5103-74-2	2.00	<2.00	ug/L	
cis-Chlordane	5103-71-9	2.00	<2.00	ug/L	
4,4'-DDE	72-55-9	2.00	<2.00	ug/L	
Endosulfan I	959-98-8	2.00	<2.00	ug/L	
Dieldrin	60-57-1	2.00	<2.00	ug/L	
Endrin	72-20-8	2.00	<2.00	ug/L	
4,4'-DDD	72-54-8	2.00	<2.00	ug/L	
Endosulfan II	33213-65-9	2.00	<2.00	ug/L	
4,4'-DDT	50-29-3	2.00	<2.00	ug/L	
Endrin Aldehyde	7421-93-4	2.00	<2.00	ug/L	
Methoxychlor	72-43-5	2.00	<2.00	ug/L	
Endosulfan Sulfate	1031-07-8	2.00	<2.00	ug/L	
Endrin Ketone	53494-70-5	2.00	<2.00	ug/L	
Toxaphene	8001-35-2	2.00	<2.00	ug/L	
Chlordane	12789-03-6	2.00	<2.00	ug/L	

Date Prepared: 01/29/2013

Date Analyzed: 01/29/2013

Preparation Method: EPA 3510C

Analytical Method: EPA 8081B



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Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	0.500	<0.500	ug/L	
Aroclor-1260	11096-82-5	0.500	<0.500	ug/L	
Aroclor-1254	11097-69-1	0.500	<0.500	ug/L	
Aroclor-1242	53469-21-9	0.500	<0.500	ug/L	
Aroclor-1248	12672-29-6	0.500	<0.500	ug/L	
Aroclor-1221	11104-28-2	0.500	<0.500	ug/L	
Aroclor-1232	11141-16-5	0.500	<0.500	ug/L	

Date Prepared: 01/25/2013

Date Analyzed: 01/29/2013

Preparation Method: EPA 608

Analytical Method: EPA 608



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/25/2013	EPA 200.7 Rev. 4.4	0.05	2.16	mg/L	
Calcium	01/25/2013	EPA 200.7 Rev. 4.4	1.00	369	mg/L	3.E
Antimony	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Arsenic	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Barium	01/25/2013	EPA 200.7 Rev. 4.4	0.01	1.61	mg/L	
Beryllium	01/25/2013	EPA 200.7 Rev. 4.4	0.01	<0.01	mg/L	
Cadmium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Chromium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cobalt	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Copper	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Iron	01/25/2013	EPA 200.7 Rev. 4.4	0.10	17.3	mg/L	
Lead	01/25/2013	EPA 200.7 Rev. 4.4	0.015	0.075	mg/L	
Magnesium	01/25/2013	EPA 200.7 Rev. 4.4	1.00	153	mg/L	3.E
Manganese	01/25/2013	EPA 200.7 Rev. 4.4	0.05	2.47	mg/L	
Nickel	01/25/2013	EPA 200.7 Rev. 4.4	0.02	<0.02	mg/L	
Potassium	01/25/2013	EPA 200.7 Rev. 4.4	0.10	25.6	mg/L	
Selenium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Silver	01/25/2013	EPA 200.7 Rev. 4.4	0.005	<0.005	mg/L	
Sodium	01/25/2013	EPA 200.7 Rev. 4.4	1.00	497	mg/L	3.E
Thallium	01/25/2013	EPA 200.7 Rev. 4.4	0.50	<0.50	mg/L	
Vanadium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Zinc	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	

Date Prepared: 01/25/2013

Preparation Method: EPA 200.2

Date Analyzed: 01/25/2013

Analytical Method: EPA 200.7 Rev. 4.4

Mercury	01/29/2013	EPA 245.1 Rev. 3.0	0.002	<0.002	mg/L	
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Date Prepared: 01/25/2013

Preparation Method: EPA 245.1

Date Analyzed: 01/29/2013

Analytical Method: EPA 245.1 Rev. 3.0

Cyanide	01/30/2013	SM 18-21 4500-CN E (99)	0.002	<0.002	mg/L	
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Date Prepared: 01/28/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/30/2013

Analytical Method: SM 18-21 4500-CN E (9)



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Dissolved Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/28/2013	EPA 200.7 Rev. 4.4	0.05	0.10	mg/L	
Calcium	01/28/2013	EPA 200.7 Rev. 4.4	0.50	441	mg/L	3.E
Antimony	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Arsenic	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Barium	01/28/2013	EPA 200.7 Rev. 4.4	1.00	<1.00	mg/L	
Beryllium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cadmium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Chromium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cobalt	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Copper	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Iron	01/28/2013	EPA 200.7 Rev. 4.4	0.05	3.19	mg/L	
Lead	01/28/2013	EPA 200.7 Rev. 4.4	0.005	0.007	mg/L	
Magnesium	01/28/2013	EPA 200.7 Rev. 4.4	0.50	178	mg/L	3.E
Manganese	01/28/2013	EPA 200.7 Rev. 4.4	0.05	4.60	mg/L	
Nickel	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Potassium	01/28/2013	EPA 200.7 Rev. 4.4	0.50	42.0	mg/L	3.E
Selenium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Silver	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Sodium	01/28/2013	EPA 200.7 Rev. 4.4	5.00	987	mg/L	3.E
Thallium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Vanadium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Zinc	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	

Date Prepared: 01/25/2013

Preparation Method: EPA 200.2

Date Analyzed: 01/28/2013

Analytical Method: EPA 200.7 Rev. 4.4

Mercury	01/29/2013	EPA 245.1 Rev. 3.0	0.002	<0.002	mg/L	
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Date Prepared: 01/25/2013

Preparation Method: EPA 245.1

Date Analyzed: 01/29/2013

Analytical Method: EPA 245.1 Rev. 3.0



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 10:00	Sample ID: MW-3
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.00	<5.00	ug/L	
Chloromethane	74-87-3	5.00	<5.00	ug/L	
Vinyl chloride	75-01-4	5.00	<5.00	ug/L	
Bromomethane	74-83-9	5.00	<5.00	ug/L	
Chloroethane	75-00-3	5.00	<5.00	ug/L	
Trichlorofluoromethane	75-69-4	5.00	<5.00	ug/L	
Acetone	67-64-1	10.0	<10.0	ug/L	
1,1-Dichloroethylene	75-35-4	5.00	<5.00	ug/L	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.00	<5.00	ug/L	
Methyl Acetate	79-20-9	5.00	<5.00	ug/L	
1,1,1-Trichloroethane	71-55-6	5.00	<5.00	ug/L	
Methylene Chloride	75-09-2	5.00	<5.00	ug/L	
Carbon disulfide	75-15-0	5.00	<5.00	ug/L	
Methyl-tert-Butyl Ether	1634-04-4	5.00	<5.00	ug/L	
trans-1,2-Dichloroethylene	156-60-5	5.00	<5.00	ug/L	
1,1-Dichloroethane	75-34-3	5.00	<5.00	ug/L	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	5.00	<5.00	ug/L	
cis-1,2-Dichloroethylene	156-59-2	5.00	<5.00	ug/L	
Bromochloromethane	74-97-5	5.00	<5.00	ug/L	
Chloroform	67-66-3	5.00	<5.00	ug/L	
1,2-Dichloroethane	107-06-2	5.00	<5.00	ug/L	
Carbon Tetrachloride	56-23-5	5.00	<5.00	ug/L	
Benzene	71-43-2	0.700	<0.700	ug/L	
Trichloroethylene	79-01-6	5.00	<5.00	ug/L	
1,2-Dichloropropane	78-87-5	5.00	<5.00	ug/L	
Bromodichloromethane	75-27-4	5.00	<5.00	ug/L	
Methyl Isobutyl Ketone	108-10-1	5.00	<5.00	ug/L	
cis-1,3-Dichloropropylene	10061-01-5	5.00	<5.00	ug/L	
Toluene	108-88-3	5.00	<5.00	ug/L	
trans-1,3-Dichloropropylene	10061-02-6	5.00	<5.00	ug/L	
1,1,2-Trichloroethane	79-00-5	5.00	<5.00	ug/L	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	5.00	<5.00	ug/L	



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Date (Time) Collected: 01/24/2013 10:00	Sample ID: MW-3
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dibromochloromethane	124-48-1	5.00	<5.00	ug/L	
Tetrachloroethylene	127-18-4	5.00	<5.00	ug/L	
1,2-Dibromoethane	106-93-4	5.00	<5.00	ug/L	
Chlorobenzene	108-90-7	5.00	<5.00	ug/L	
Ethylbenzene	100-41-4	5.00	<5.00	ug/L	
m,p-Xylenes	108-38-3/106-42-3	10.0	<10.0	ug/L	
Styrene	100-42-5	5.00	<5.00	ug/L	
o-Xylene	95-47-6	5.00	<5.00	ug/L	
Bromoform	75-25-2	5.00	<5.00	ug/L	
1,1,2,2-Tetrachloroethane	79-34-5	5.00	<5.00	ug/L	
Isopropylbenzene (Cumene)	98-82-8	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	<5.00	ug/L	
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2,3-Trichlorobenzene	87-61-6	5.00	<5.00	ug/L	
Benzene, 1,2,3,5-tetramethyl-	000527-53-7	NA	14.6	ug/L	5.K
Benzene, 1,2-diethyl-	000135-01-3	NA	13.2	ug/L	5.K
Butane, 2,3-dimethyl-	000079-29-8	NA	9.04	ug/L	5.K
Butane, 2-methyl-	000078-78-4	NA	7.01	ug/L	5.K
Cyclohexane	110-82-7	NA	24.4	ug/L	5.K
Cyclohexane, 1,3-dimethyl-, trans-	002207-03-6	NA	8.54	ug/L	5.K
Cyclopentane, 1,1,3-trimethyl-	004516-69-2	NA	5.96	ug/L	5.K
Cyclopentane, 1,1-dimethyl-	001638-26-2	NA	7.34	ug/L	5.K
Cyclopentane, 1,2-dimethyl-, cis-	001192-18-3	NA	5.81	ug/L	5.K
Cyclopentane, 1,2-dimethyl-, trans-	000822-50-4	NA	14.7	ug/L	5.K
Cyclopentane, 1-methyl-2-methylene-	041158-41-2	NA	6.56	ug/L	5.K
Cyclopentene, 1,2,3-trimethyl-	000473-91-6	NA	16.4	ug/L	5.K
Indan, 1-methyl-	000767-58-8	NA	20.4	ug/L	5.K
Isooctane, (ethenyl-)-	037769-62-3	NA	9.56	ug/L	5.K



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 10:00	Sample ID: MW-3
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Pentane, 3-methyl-	000096-14-0	NA	10.4	ug/L	5.K
unknown hydrocarbon	NA	NA	5.87	ug/L	5.K

Date Prepared: 01/29/2013

Preparation Method: EPA 5030 C

Date Analyzed: 01/29/2013

Analytical Method: EPA 8260 C



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Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	2.00	<2.00	ug/L	
Acetophenone	989-86-2	2.00	<2.00	ug/L	
Phenol	108-95-2	5.00	<5.00	ug/L	
2-Chlorophenol	95-57-8	5.00	<5.00	ug/L	
Caprolactam	105-60-2	2.00	<2.00	ug/L	
Bis(2-Chloroethyl)ether	111-44-4	5.00	<5.00	ug/L	
1,1-Biphenyl	92-52-4	2.00	<2.00	ug/L	
1,2-Diphenylhydrazine	122-66-7	2.00	<2.00	ug/L	
2-Methylphenol	95-48-7	5.00	<5.00	ug/L	
Atrazine	1912-24-9	2.00	<2.00	ug/L	
Bis(2-chloroisopropyl)ether	39638-32-9	5.00	<5.00	ug/L	
Hexachloroethane	67-72-1	5.00	<5.00	ug/L	
3/4-Methylphenol	108-39-4/106-44-5	5.00	<5.00	ug/L	
N-Nitroso-di-n-propylamine	621-64-7	5.00	<5.00	ug/L	
Nitrobenzene	98-95-3	5.00	<5.00	ug/L	
Isophorone	78-59-1	5.00	<5.00	ug/L	
2-Nitrophenol	88-75-5	5.00	<5.00	ug/L	
2,4-Dimethylphenol	105-67-9	5.00	<5.00	ug/L	
bis(2-Chloroethoxy)methane	111-91-1	5.00	<5.00	ug/L	
2,4-Dichlorophenol	120-83-2	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	
4-Chloroaniline	106-47-8	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
4-Chloro-3-methylphenol	59-50-7	5.00	<5.00	ug/L	
2-Methylnaphthalene	91-57-6	5.00	<5.00	ug/L	
Hexachlorocyclopentadiene	77-47-4	5.00	<5.00	ug/L	
2,4,6-Trichlorophenol	88-06-2	5.00	<5.00	ug/L	
2,4,5-Trichlorophenol	95-95-4	5.00	<5.00	ug/L	
2-Chloronaphthalene	91-58-7	5.00	<5.00	ug/L	
2-Nitroaniline	88-74-4	5.00	<5.00	ug/L	
Dimethyl phthalate	131-11-3	5.00	<5.00	ug/L	
Acenaphthylene	208-96-8	5.00	<5.00	ug/L	



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Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	5.00	<5.00	ug/L	
3-Nitroaniline	99-09-2	5.00	<5.00	ug/L	
Acenaphthene	83-32-9	5.00	<5.00	ug/L	
2,4-Dinitrophenol	51-28-5	5.00	<5.00	ug/L	
Dibenzofuran	132-64-9	5.00	<5.00	ug/L	
4-Nitrophenol	100-02-7	5.00	<5.00	ug/L	
2,4-Dinitrotoluene	121-14-2	5.00	<5.00	ug/L	
Fluorene	86-73-7	5.00	<5.00	ug/L	
Diethyl phthalate	84-66-2	5.00	<5.00	ug/L	
4-Chlorophenyl phenyl ether	7005-72-3	5.00	<5.00	ug/L	
4-Nitroaniline	100-01-6	5.00	<5.00	ug/L	
4,6-Dinitro-2-methylphenol	534-52-1	5.00	<5.00	ug/L	
N-Nitrosodiphenylamine	86-30-6	5.00	<5.00	ug/L	
4-Bromophenyl phenyl ether	101-55-3	5.00	<5.00	ug/L	
Hexachlorobenzene	118-74-1	5.00	<5.00	ug/L	
Pentachlorophenol	87-86-5	5.00	<5.00	ug/L	
Phenanthrene	85-01-8	5.00	<5.00	ug/L	
Anthracene	120-12-7	5.00	<5.00	ug/L	
Carbazole	86-74-8	5.00	<5.00	ug/L	
Di-n-butyl phthalate	84-74-2	5.00	<5.00	ug/L	
Fluoranthene	206-44-0	5.00	<5.00	ug/L	
Pyrene	129-00-0	5.00	<5.00	ug/L	
Butyl benzyl phthalate	85-68-7	5.00	<5.00	ug/L	
Benzo(a)anthracene	56-55-3	5.00	<5.00	ug/L	
Chrysene	218-01-9	5.00	<5.00	ug/L	
3,3'-Dichlorobenzidine	91-94-1	5.00	<5.00	ug/L	
Bis(2-Ethylhexyl)phthalate	117-81-7	5.00	<5.00	ug/L	
Di-n-octyl phthalate	117-84-0	5.00	<5.00	ug/L	
Benzo(b)fluoranthene	205-99-2	5.00	<5.00	ug/L	
Benzo(k)fluoranthene	207-08-9	5.00	<5.00	ug/L	
Benzo(a)pyrene	50-32-8	5.00	<5.00	ug/L	



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Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	5.00	<5.00	ug/L	
Dibenzo(a,h)anthracene	53-70-3	5.00	<5.00	ug/L	
Benzo(g,h,i)perylene	191-24-2	5.00	<5.00	ug/L	
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	205	ug/L	5.K
Benzene, 1,2-diethyl-	000135-01-3	NA	12.0	ug/L	5.K
Benzene, 1-methyl-3-(1-methylethyl)-	000535-77-3	NA	9.24	ug/L	5.K
Benzene, propyl-	000103-65-1	NA	14.0	ug/L	5.K
Lauric anhydride	000645-66-9	NA	18.9	ug/L	5.K
n-Hexadecanoic acid	000057-10-3	NA	32.6	ug/L	5.K

Date Prepared: 01/28/2013

Preparation Method: EPA 3510C

Date Analyzed: 01/28/2013

Analytical Method: EPA 8270 D



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Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	2.00	<2.00	ug/L	
gamma-BHC	58-89-9	2.00	<2.00	ug/L	
beta-BHC	319-85-7	2.00	<2.00	ug/L	
delta-BHC	319-86-8	2.00	<2.00	ug/L	
Heptachlor	76-44-8	2.00	<2.00	ug/L	
Aldrin	309-00-2	2.00	<2.00	ug/L	
Heptachlor Epoxide	1024-57-3	2.00	<2.00	ug/L	
trans-Chlordane	5103-74-2	2.00	<2.00	ug/L	
cis-Chlordane	5103-71-9	2.00	<2.00	ug/L	
4,4'-DDE	72-55-9	2.00	<2.00	ug/L	
Endosulfan I	959-98-8	2.00	<2.00	ug/L	
Dieldrin	60-57-1	2.00	<2.00	ug/L	
Endrin	72-20-8	2.00	<2.00	ug/L	
4,4'-DDD	72-54-8	2.00	<2.00	ug/L	
Endosulfan II	33213-65-9	2.00	<2.00	ug/L	
4,4'-DDT	50-29-3	2.00	<2.00	ug/L	
Endrin Aldehyde	7421-93-4	2.00	<2.00	ug/L	
Methoxychlor	72-43-5	2.00	<2.00	ug/L	
Endosulfan Sulfate	1031-07-8	2.00	<2.00	ug/L	
Endrin Ketone	53494-70-5	2.00	<2.00	ug/L	
Toxaphene	8001-35-2	2.00	<2.00	ug/L	
Chlordane	12789-03-6	2.00	<2.00	ug/L	

Date Prepared: 01/29/2013

Preparation Method: EPA 3510C

Date Analyzed: 01/29/2013

Analytical Method: EPA 8081B



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Date (Time) Collected: 01/24/2013 10:00	Sample ID: MW-3
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	0.500	<0.500	ug/L	
Aroclor-1260	11096-82-5	0.500	<0.500	ug/L	
Aroclor-1254	11097-69-1	0.500	<0.500	ug/L	
Aroclor-1242	53469-21-9	0.500	<0.500	ug/L	
Aroclor-1248	12672-29-6	0.500	<0.500	ug/L	
Aroclor-1221	11104-28-2	0.500	<0.500	ug/L	
Aroclor-1232	11141-16-5	0.500	<0.500	ug/L	

Date Prepared: 01/25/2013

Preparation Method: EPA 608

Date Analyzed: 01/29/2013

Analytical Method: EPA 608



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 10:00	Sample ID: MW-3
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/25/2013	EPA 200.7 Rev. 4.4	0.05	1.13	mg/L	
Calcium	01/25/2013	EPA 200.7 Rev. 4.4	1.00	277	mg/L	3.E
Antimony	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Arsenic	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Barium	01/25/2013	EPA 200.7 Rev. 4.4	0.01	1.09	mg/L	
Beryllium	01/25/2013	EPA 200.7 Rev. 4.4	0.01	<0.01	mg/L	
Cadmium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Chromium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cobalt	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Copper	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Iron	01/25/2013	EPA 200.7 Rev. 4.4	0.10	17.3	mg/L	
Lead	01/25/2013	EPA 200.7 Rev. 4.4	0.015	<0.015	mg/L	
Magnesium	01/25/2013	EPA 200.7 Rev. 4.4	0.10	71.9	mg/L	
Manganese	01/25/2013	EPA 200.7 Rev. 4.4	0.05	3.99	mg/L	
Nickel	01/25/2013	EPA 200.7 Rev. 4.4	0.02	<0.02	mg/L	
Potassium	01/25/2013	EPA 200.7 Rev. 4.4	0.10	44.5	mg/L	
Selenium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Silver	01/25/2013	EPA 200.7 Rev. 4.4	0.005	<0.005	mg/L	
Sodium	01/25/2013	EPA 200.7 Rev. 4.4	1.00	554	mg/L	3.E
Thallium	01/25/2013	EPA 200.7 Rev. 4.4	0.50	<0.50	mg/L	
Vanadium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Zinc	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	

Date Prepared: 01/25/2013

Preparation Method: EPA 200.2

Date Analyzed: 01/25/2013

Analytical Method: EPA 200.7 Rev. 4.4

Mercury	01/29/2013	EPA 245.1 Rev. 3.0	0.002	<0.002	mg/L	
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Date Prepared: 01/25/2013

Preparation Method: EPA 245.1

Date Analyzed: 01/29/2013

Analytical Method: EPA 245.1 Rev. 3.0

Cyanide	01/30/2013	SM 18-21 4500-CN E (99)	0.002	<0.002	mg/L	
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Date Prepared: 01/28/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/30/2013

Analytical Method: SM 18-21 4500-CN E (9)



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Date (Time) Collected: 01/24/2013 10:00	Sample ID: MW-3
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

Dissolved Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/28/2013	EPA 200.7 Rev. 4.4	0.05	0.13	mg/L	
Calcium	01/28/2013	EPA 200.7 Rev. 4.4	0.50	273	mg/L	3.E
Antimony	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Arsenic	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Barium	01/28/2013	EPA 200.7 Rev. 4.4	1.00	1.11	mg/L	
Beryllium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cadmium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Chromium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cobalt	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Copper	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Iron	01/28/2013	EPA 200.7 Rev. 4.4	0.05	9.56	mg/L	
Lead	01/28/2013	EPA 200.7 Rev. 4.4	0.005	<0.005	mg/L	
Magnesium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	78.0	mg/L	
Manganese	01/28/2013	EPA 200.7 Rev. 4.4	0.05	4.19	mg/L	
Nickel	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Potassium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	49.4	mg/L	
Selenium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Silver	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Sodium	01/28/2013	EPA 200.7 Rev. 4.4	0.50	578	mg/L	3.E
Thallium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Vanadium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Zinc	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	

Date Prepared: 01/25/2013

Preparation Method: EPA 200.2

Date Analyzed: 01/28/2013

Analytical Method: EPA 200.7 Rev. 4.4

Mercury	01/29/2013	EPA 245.1 Rev. 3.0	0.002	<0.002	mg/L	
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Date Prepared: 01/25/2013

Preparation Method: EPA 245.1

Date Analyzed: 01/29/2013

Analytical Method: EPA 245.1 Rev. 3.0

Data Qualifiers Key Reference:

- 3.A Minimum detection limit raised due to matrix interference.
- 3.E Compound reported at a dilution factor
- 4.F Spike recovery does not meet QC criteria due to high target compound concentration
- 4.G Spike recovery out of range due to matrix interference
- 5.K Reported as TIC
- MRL Minimum Reporting Limit



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HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB #: 12-703
JOB LOCATION: N.Y., N.Y.
JOB NAME: Hudson and Canal Streets
DATE OF BORINGS: 1/12/13
DATE OF TESTING: 1/12/13
INSTRUMENT:

- PE Photovac 2020
- Foxboro Century OVA 128 GC
- HNU Photo-Ionization P1 – 101/1 1.7
- _____

LOCATION #: GP-1

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (ppm)
1*	0.0 - 2.0	0.0 – 2000.0	ND
2	2.0 - 4.0	0.0 – 2000.0	11.1
3*	4.0 - 6.0	0.0 – 2000.0	1,515.0

ND = not detected NR = NO RECOVERY *Sample Selected for laboratory analysis

Field Professional: S. Anderson



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HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB #: 12-703
JOB LOCATION: N.Y., N.Y.
JOB NAME: Hudson and Canal Streets
DATE OF BORINGS: 1/12/13
DATE OF TESTING: 1/12/13
INSTRUMENT:

- PE Photovac 2020
 Foxboro Century OVA 128 GC
 HNU Photo-Ionization P1 – 101/1 1.7

LOCATION #: GP-2

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (ppm)
1*	0.0 - 2.0	0.0 – 2000.0	7.7
2*	2.0 - 4.0	0.0 – 2000.0	95.0
3	4.0 - 6.0	0.0 – 2000.0	ND

ND = not detected

NR = NO RECOVERY

*Sample Selected for laboratory analysis

Field Professional: S. Anderson



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HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB #: 12-703
JOB LOCATION: N.Y., N.Y.
JOB NAME: Hudson and Canal Streets
DATE OF BORINGS: 1/15/13
DATE OF TESTING: 1/15/13
INSTRUMENT:

- PE Photovac 2020
- Foxboro Century OVA 128 GC
- HNU Photo-Ionization P1 – 101/1 1.7
- _____

LOCATION #: GP-3

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (ppm)
1*	0.0 - 2.0	0.0 – 2000.0	ND
2	2.0 - 4.0	0.0 – 2000.0	ND
3*	4.0 - 6.0	0.0 – 2000.0	ND

ND = not detected

NR = NO RECOVERY

*Sample Selected for laboratory analysis

Field Professional: S. Anderson



SOIL MECHANICS ENVIRONMENTAL SERVICES

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(516) 221-7500 • FAX (516) 679-1900

HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB #: 12-703
JOB LOCATION: N.Y., N.Y.
JOB NAME: Hudson and Canal Streets
DATE OF BORINGS: 1/16/13
DATE OF TESTING: 1/16/13
INSTRUMENT:

- PE Photovac 2020
 Foxboro Century OVA 128 GC
 HNU Photo-Ionization P1 – 101/1 1.7

LOCATION #: GP-4

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (ppm)
1*	0.0 - 2.0	0.0 – 2000.0	22.0
2	2.0 - 4.0	0.0 – 2000.0	NR
3	4.0 - 6.0	0.0 – 2000.0	NR
No second sample selected for laboratory analysis from this sampling location due to limited or no sample recovery			

ND = not detected

NR = NO RECOVERY

*Sample Selected for laboratory analysis

Field Professional: S. Anderson



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INSTRUMENT:

- PE Photovac 2020
 Foxboro Century OVA 128 GC
 HNU Photo-Ionization P1 – 101/1 1.7

LOCATION #: GP-5

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (ppm)
1*	0.0 - 2.0	0.0 – 2000.0	41.8
2	2.0 - 4.0	0.0 – 2000.0	NR
3	4.0 - 6.0	0.0 – 2000.0	NR
No second sample selected for laboratory analysis this sampling location due to limited or no sample recovery			

ND = not detected

NR = NO RECOVERY

*Sample Selected for laboratory analysis

Field Professional: S. Anderson



**SOIL MECHANICS
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HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB #: 12-703
JOB LOCATION: N.Y., N.Y.
JOB NAME: Hudson and Canal Streets
DATE OF BORINGS: 1/16/13
DATE OF TESTING: 1/16/13
INSTRUMENT:

- PE Photovac 2020
- Foxboro Century OVA 128 GC
- HNU Photo-Ionization P1 – 101/1 1.7
- _____

LOCATION #: GP-6

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (ppm)
1	0.0 - 2.0	0.0 – 2000.0	NR
2	2.0 - 4.0	0.0 – 2000.0	NR
3*	4.0 - 6.0	0.0 – 2000.0	403.0
No second sample selected for laboratory analysis this sampling location due to limited or no sample recovery			

ND = not detected NR = NO RECOVERY *Sample Selected for laboratory analysis

Field Professional: S. Anderson



APPENDIX D

SOIL GEOLOGIC BORING LOGS AND MONITORING WELL CONSTRUCTION DIAGRAMS

GP-1

GROUND SURFACE

1	1	BLACKTOP	
		CONCRETE	
		DK. GRAY SAND, SILT, GRAVEL, BRICK, CONCRETE, MISC. (FILL)	
2	2	BRICK, CONCRETE, BRN. SAND, SILT, GRAVEL, ROCK FRAG., MISC. (FILL)	
		GRAY BRN. SILTY SAND, TR. GRAVEL, ROCK FRAG. (SM)(FILL)	
END OF BORING 6' - 0"			
FEET	CLASSIFICATION		
	NO	SB	

GP-2

GROUND SURFACE

1	1	BLACKTOP	
		CONCRETE	
		BRN. SAND, SILT, GRAVEL, BRICK, CONCRETE, ROCK FRAG., MISC. (FILL)	
2	2	BRN./ GRAYISH BRN. SILTY SAND, TR. GRAVEL, BRICK (SM)(FILL)	
		BRN./ GRAYISH BRN. SAND, SILT, GRAVEL, ROCK FRAG., BRICK, CONCRETE, MISC. (FILL)	
END OF BORING 6' - 0"			
FEET	CLASSIFICATION		
	NO	SB	

GP-3

GROUND SURFACE

1	1	3/4"	ASPHALT 2"
		5	
		6	
2	2	4	DK. BRN./ DK. GRAY BRN. SAND, SILT, GRAVEL, BRICK, ROCK FRAG., MISC. (FILL)
		3	
		2	
5	3	5	BRN./ DK. BRN. SAND, SILT, GRAVEL, BRICK, MISC. (FILL)
		6	
		5	
END OF BORING 6' - 0"			
FEET	CLASSIFICATION		
	NO	SB	

GP-4

GROUND SURFACE

1	1	-	ASPHALT 1"
		1/3"	
		2	
2	2	3	CONCRETE 8"
		4	
		2	
5	3	2	BRICK, BRN./ GRAY BRN. SAND, SILT, GRAVEL, MISC. (FILL)
		3	
		6	
END OF BORING 6' - 0"			
FEET	CLASSIFICATION		
	NO	SB	

GP-5

GROUND SURFACE

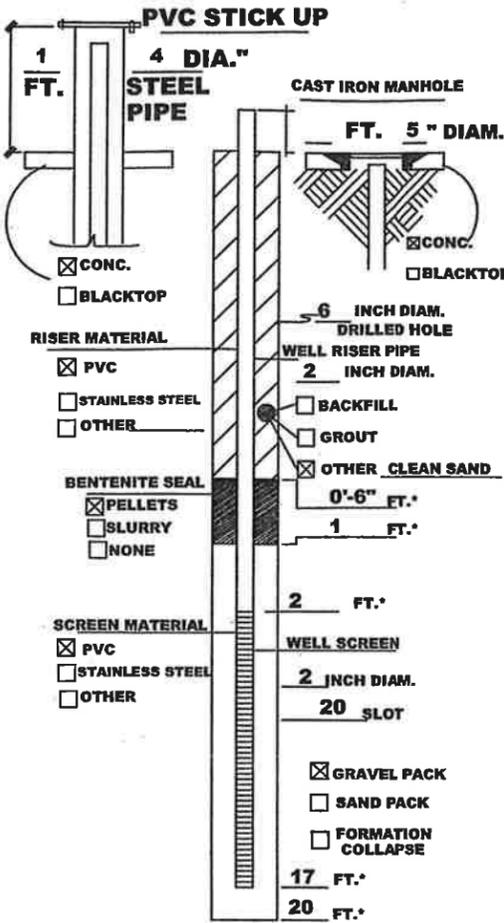
1	1	-	CONCRETE 8"
		2/4"	
		P	
2	2	1	DK. BRN./ DK. GRAY BRN. SAND, SILT, GRAVEL, CONCRETE, MISC. (FILL)
		2	
		3	
5	3	4	
		3	
		2	
END OF BORING 6' - 0"			
FEET	CLASSIFICATION		
	NO	SB	

GP-6

GROUND SURFACE

1	1	4/4"	ASPHALT 2"
		6	
		7	
2	2	9	GRAY BRN./ BRN. SAND, SILT, GRAVEL, BRICK, CONCRETE, ROCK FRAG., MISC. (FILL)
		12	
		13	
5	3	12	ROCK FRAG., BRICK(?), BRN./ GRAY BRN. SAND, SILT, GRAVEL, MISC. (FILL)
		14	
		17	
END OF BORING 6' - 0"			
FEET	CLASSIFICATION		
	NO	SB	

STAND PIPE **OBSERVATION WELL LOG** **WELL NO. MW-1**



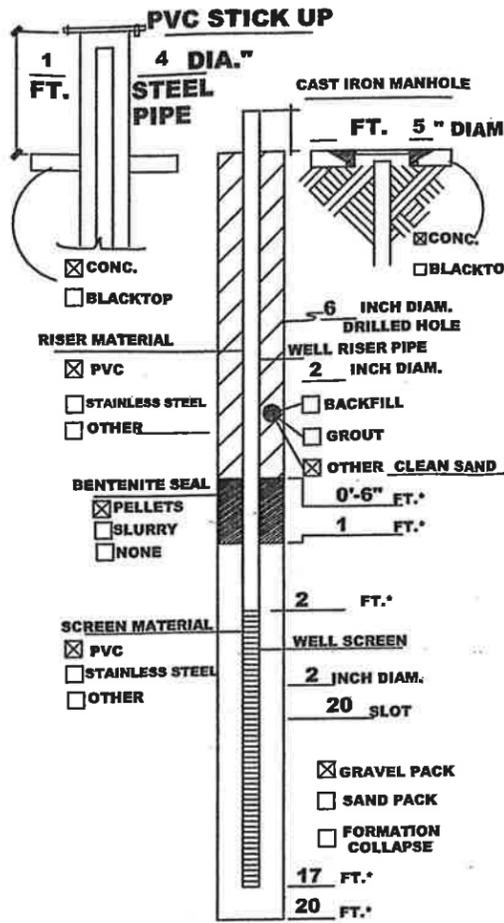
PROJECT NAME: #219 HUDSON STREET
 LOCATION: MANHATTAN, NEW YORK
 INSTALLATION DATE: JANUARY 16, 2013
 TOP OF CASING ELEVATION 7.04'
 DEPTH TO WATER: 7'-0"±
 DEPTH TO WELL BOTTOM: 17'-0"
 LENGTH OF WATER COLUMN: _____
 CALCULATED VOL. OF WATER IN WELL: _____
 DEVELOPMENT: _____
 DEVELOPMENT DATE: _____
 DEVELOPMENT RATE G P M: _____
 PUMP DURATION (MINUTES) _____
 METHOD:
 PUMP
 BAILER
 OTHER
 DEPTH TO WATER 7'-0"±

NOTES:

NOTE: MEASURING POINT IS GROUND SURFACE UNLESS OTHERWISE NOTED.
 * DEPTH BELOW GROUND SURFACE

PREPARED BY: M.S.

STAND PIPE **OBSERVATION WELL LOG** **WELL NO. MW-2**



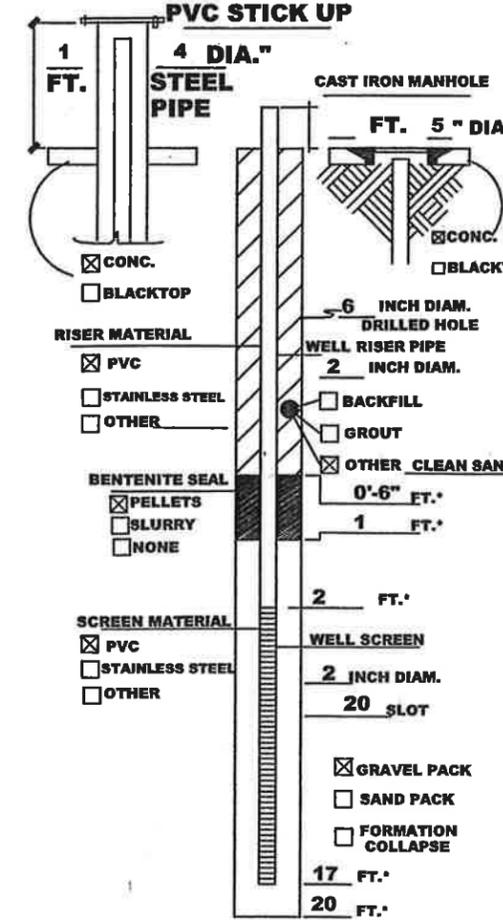
PROJECT NAME: #219 HUDSON STREET
 LOCATION: MANHATTAN, NEW YORK
 INSTALLATION DATE: JANUARY 16, 2013
 TOP OF CASING ELEVATION 7.46'
 DEPTH TO WATER: 7'-0"±
 DEPTH TO WELL BOTTOM: 17'-0"
 LENGTH OF WATER COLUMN: _____
 CALCULATED VOL. OF WATER IN WELL: _____
 DEVELOPMENT: _____
 DEVELOPMENT DATE: _____
 DEVELOPMENT RATE G P M: _____
 PUMP DURATION (MINUTES) _____
 METHOD:
 PUMP
 BAILER
 OTHER
 DEPTH TO WATER 7'-0"±

NOTES:

NOTE: MEASURING POINT IS GROUND SURFACE UNLESS OTHERWISE NOTED.
 * DEPTH BELOW GROUND SURFACE

PREPARED BY: M.S.

STAND PIPE **OBSERVATION WELL LOG** **WELL NO. MW-3**

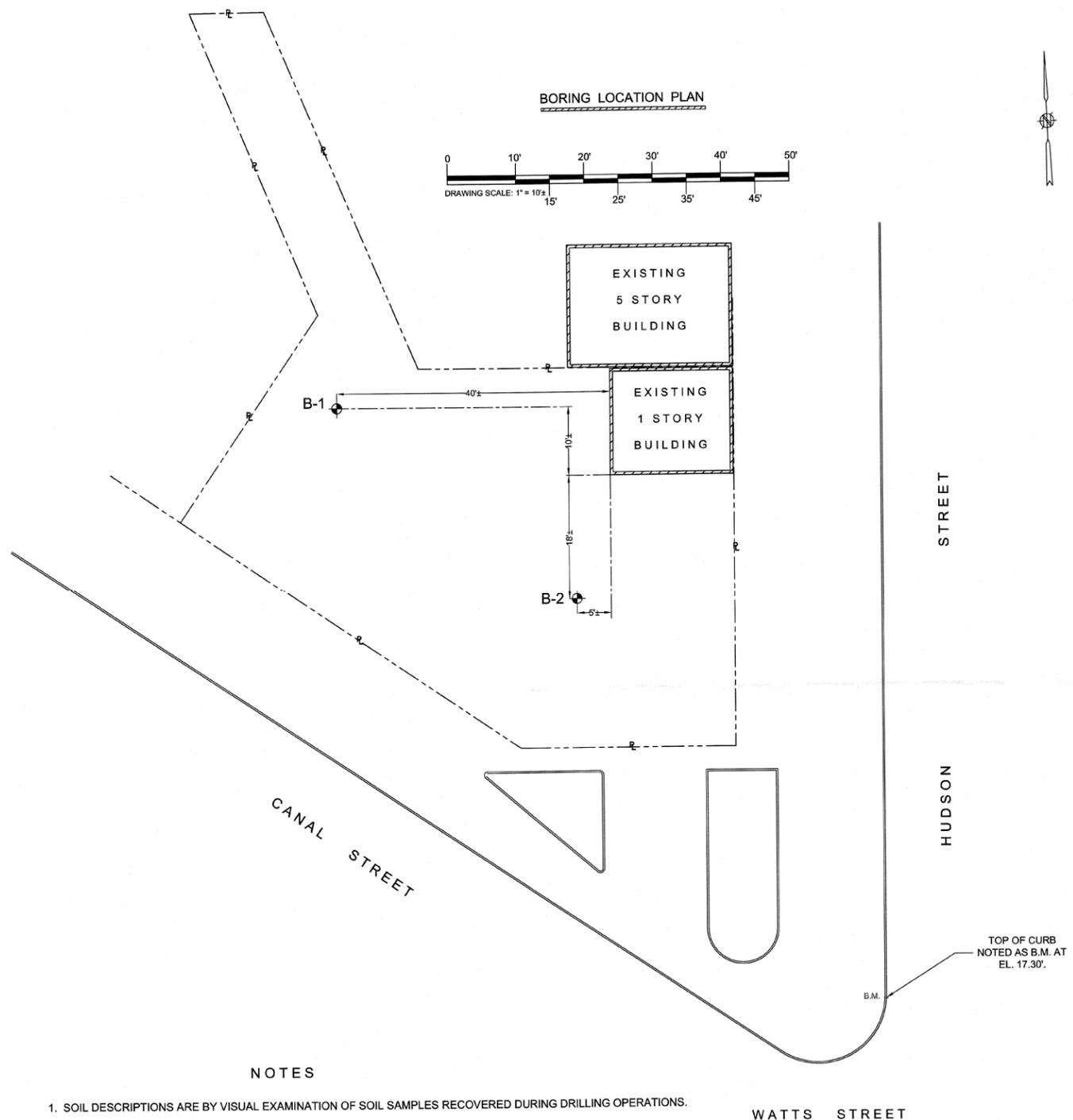
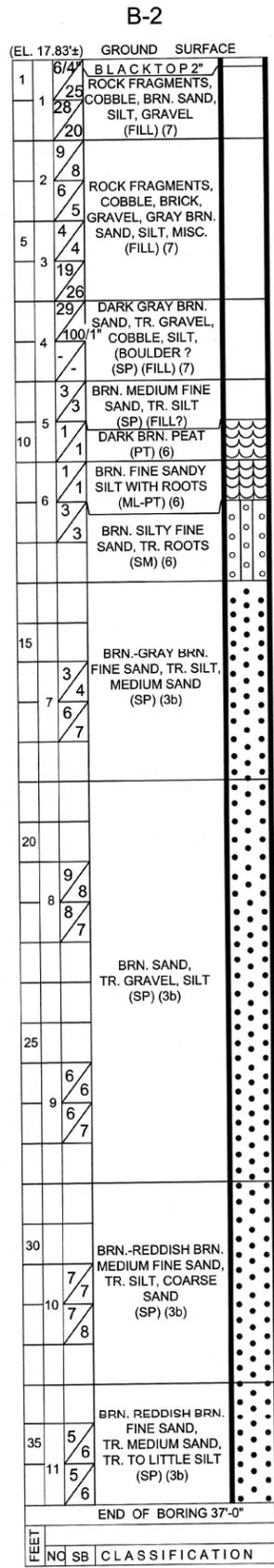
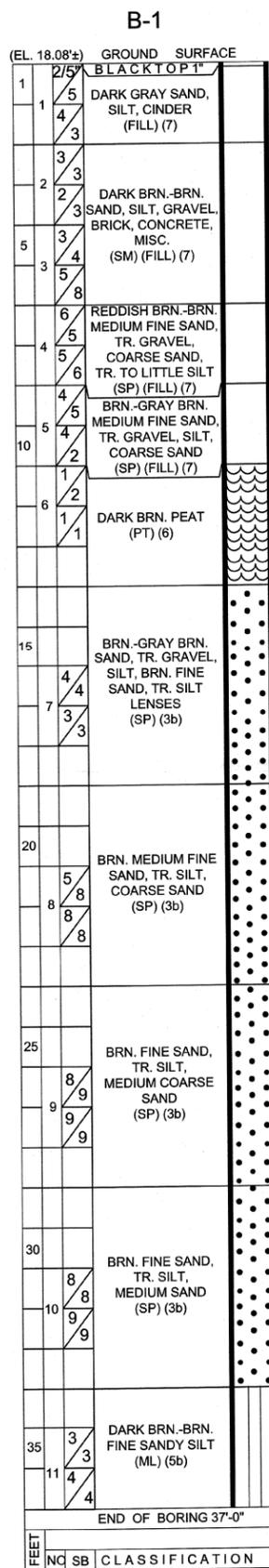


PROJECT NAME: #219 HUDSON STREET
 LOCATION: MANHATTAN, NEW YORK
 INSTALLATION DATE: JANUARY 16, 2013
 TOP OF CASING ELEVATION 8.05'
 DEPTH TO WATER: 7'-0"±
 DEPTH TO WELL BOTTOM: 17'-0"
 LENGTH OF WATER COLUMN: _____
 CALCULATED VOL. OF WATER IN WELL: _____
 DEVELOPMENT: _____
 DEVELOPMENT DATE: _____
 DEVELOPMENT RATE G P M: _____
 PUMP DURATION (MINUTES) _____
 METHOD:
 PUMP
 BAILER
 OTHER
 DEPTH TO WATER 7'-0"±

NOTES:

NOTE: MEASURING POINT IS GROUND SURFACE UNLESS OTHERWISE NOTED.
 * DEPTH BELOW GROUND SURFACE

PREPARED BY: M.S.



- NOTES**
- SOIL DESCRIPTIONS ARE BY VISUAL EXAMINATION OF SOIL SAMPLES RECOVERED DURING DRILLING OPERATIONS.
 - SOIL DESCRIPTIONS ARE IN ACCORD WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM.
 - GROUND WATER TABLE WAS MEASURED INSIDE THE DRILL CASING AT THE COMPLETION OF EACH BOREHOLE.
 - SOIL STRATIFICATIONS ARE ACCURATE TO WITHIN TWO FEET VERTICALLY.
 - SOIL SAMPLES WERE OBTAINED USING A CENTRAL MINE EQUIPMENT (CME) AUTOMATIC TRIP HAMMER.
 - BORING DRILLED IN ACCORD WITH THE NEW YORK CITY BUILDING CODE.
 - ELEVATIONS SHOWN ARE REFERENCED TO TOP OF CURB LOCATED AT THE CORNER OF CANAL STREET AND HUDSON STREET AT B.M. EL. 17.30' MAP NO. 17.

UNIFIED SOIL CLASSIFICATION		
SOIL GROUPS	TYPICAL NAMES AND SOIL SYMBOLS	
1a Thru 1d	BED ROCK	
GW	WELL GRADED GRAVELS, GRAVEL SAND MIXTURES, LITTLE OR NO FINES	
GP	POORLY GRADED GRAVELS OR GRAVEL SAND MIXTURES, LITTLE OR NO FINES	
GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURE	
GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURE	
SW	WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
SP	POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES	
SM	SILTY SANDS, SAND - SILT MIXTURES	
SC	CLAYEY SANDS, SAND - CLAY MIXTURES	
ML	INORGANIC SILTS, VERY FINE SANDS, CLAYEY SILTS, SLIGHT PLASTICITY	
CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS	
OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	
MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SILTS, ELASTIC SILTS	
CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	
OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	
Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS	

ALLOWABLE SOIL BEARING PRESSURES, N.Y.C. BLDG. CODE TABLE 1804.1		
CLASS OF MATERIALS (Notes 1 and 3) *	MAXIMUM ALLOWABLE FOUNDATION PRESSURE (15F)	MAXIMUM ALLOWABLE FOUNDATION PRESSURE (18F)
1. BEDROCK (NOTES 2 and 7) *		
1a HARD SOUND ROCK - GNEISS, DIABASE, SCHIST	60	5,746
1b MEDIUM HARD ROCK - MARBLE, SERPENTINE	40	3,830
1c INTERMEDIATE ROCK - SHALE, SANDSTONE	20	1,915
1d SOFT ROCK - WEATHERED ROCK	8	765
2. SANDY GRAVEL & GRAVEL (GW, GP) (NOTES 3, 4, 8, and 9) *		
2a DENSE	10	958
2b MEDIUM	6	575
3. GRANULAR SOILS (GC, GM, SW, SP, SM, & SC) (NOTES 4, 5, 8, and 9)		
3a DENSE	6	575
3b MEDIUM	3	287
4. CLAYS (SC, CL, & CH) (NOTES 4, 6, 8, and 9)		
4a HARD	5	479
4b STIFF	3	287
4c MEDIUM	2	192
5. SILTS & SILTY SOILS (ML & MH) (NOTES 4, 8, and 9) *		
5a DENSE	3	287
5b MEDIUM	1.5	144
6. ORGANIC SILTS, ORGANIC CLAYS, PEATS, SOFT CLAYS, LOOSE GRANULAR SOILS, & VARVED SILTS	SEE 1804.2.1 *	SEE 1804.2.1 *
7. CONTROLLED & UNCONTROLLED FILLS	SEE 1804.2.2 OR 1804.2.3 *	SEE 1804.2.2 OR 1804.2.3 *

COMPACTION RELATED TO SPOON BLOWS PER FOOT			
SAND & SILT		CLAY	
LOOSE	LESS THAN 10	SOFT	4 OR LESS
MEDIUM	10 TO 30	MEDIUM	GREATER THAN 8 TO 30
DENSE	GREATER THAN 31	HARD	GREATER THAN 30

STANDARD PENETRATION TEST - ASTM 1586			
2" SPOON, 140lb HAMMER @ 30" FALL			
SPOON BLOW COUNT IS GENERALLY SHOWN IN 6" INCREMENTS FOR 2' DRIVE TO OBTAIN BLOWS PER FOOT (N) USE THE 2ND & 3RD 6" INCREMENT			
	ROTARY CASING	EXTRA HEAVY CASING	SAMPLE SPOON
SIZES, INCHES	2.5		2.0
HAMMER WEIGHT, POUNDS			140
HAMMER FALL, INCHES			30

CB - CASING BLOWS PER 1 FOOT DRIVE UD - UNDISTURBED SOIL SAMPLE
 SB - SPOON BLOWS PER 6 INCH DRIVE NO - SAMPLE NUMBER
 P - PUSHED BY WEIGHT OF HAMMER FEET - DEPTH FROM GND. SUR. NOTED AT EACH 5'
 WOH - WEIGHT OF ROD WOH - WEIGHT OF HAMMER

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SOIL MECHANICS DRILLING CORP. subsoil investigations 3770 MERRICK ROAD * SEAFORD, NEW YORK 11783 * 516 - 221-2333		PROJECT: 219 HUDSON STREET MANHATTAN, NEW YORK	
SUBSURFACE INVESTIGATION 219 HUDSON STREET MANHATTAN, NEW YORK		BORING PLAN SUBSURFACE INVESTIGATION	
VERTICAL BORING SCALE: 1/2" = 1'-0" UNLESS NOTED OTHERWISE		DRAWING DATE JANUARY 7, 2013	
DATES OF BORING DECEMBER 20, 2012		DRAWING NUMBER 12R702.2	
DRAWN BY: NAR		CHECKED BY: CV	
SHEET 1 OF 1		SEAL & SIGNATURE: 	
DATE: JANUARY 7, 2013 PROJECT No: 12R702.2 DRAWING BY: NAR CHK BY: CV		B-001.00 CAD FILE No: 12R702.2 SHEET 1 OF 1	

LOG KEY



GZA
Geo Environmental, Inc.
Engineers and Scientists

BURMISTER SOIL CLASSIFICATION (INORGANIC)

COMPONENT	NAME	PROPORTIONAL TERM	PERCENT BY WEIGHT	IDENTIFICATION OF FINES		
				Material	PI	Atterberg Thread Dia.
MAJOR	GRAVEL, SAND, FINES*		>50	SILT	0	Cannot Roll
Minor	Gravel, Sand, Fines*	and	35 - 50	Clayey SILT	1-5	1/4"
		some	20-35	SILT & CLAY	5-10	1/8"
		little	10-20	CLAY & SILT	10-20	1/16"
		trace	0-10	Silty CLAY	20-40	1/32"
				CLAY	>40	1/64"

*See identification of fines table.

GRADATION DESIGNATION	PROPORTION OF COMPONENT	PLASTIC SOILS		GRAVEL & SAND	
		Consistency	Blows/Ft. SPT N-Value	Density	Blows/Ft. SPT N-Value
Fine to coarse	All fractions > 10%	Very Soft	< 2	Very Loose	< 4
Medium to coarse	<10% fine	Soft	2 - 4	Loose	4 - 10
Fine to medium	<10% coarse	Medium Stiff	4 - 8	Medium Dense	10 - 30
Coarse	<10% fine and medium	Stiff	8 - 15	Dense	30 - 50
Medium	<10% coarse and fine	Very Stiff	15 - 30	Very Dense	> 50
Fine	<10% coarse and medium	Hard	>30		

BURMISTER SOIL CLASSIFICATION (ORGANIC)

Fibrous PEAT (Pt) - Lightweight, spongy, mostly visible organic matter, water squeezes readily from sample. Typically near top of deposit.
 Fine Grained PEAT (Pt) - Lightweight, spongy, little visible organic matter, water squeezes readily from sample. Typically below fibrous peat.
 Organic Silt (OL) - Typically gray to dark gray, often has strong H₂S odor. Typically contains shells or shell fragments. Lightweight. Usually found near coastal regions. May contain wide range of sand fractions.
 Organic Clay (OH) - Typically gray to dark gray, high plasticity. Usually found near coastal regions. May contain wide range of sand fractions. Need organic content test for final identification.

UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) (ASTM D 2487)

MAJOR DIVISIONS	Group Symbols
Coarse Grained Soils More than 50% of material larger than No. 200 sieve.	Gravel More than 50% larger than No. 4 sieve.
	Clean Gravels (Little or no fines)
	Gravels with Fines (Appreciable amount of fines)
	Sand More than 50% smaller than No. 4 sieve.
Fine Grained Soils More than 50% of material smaller than No. 200 sieve.	Clean Sands (Little or no fines)
	Sands with Fines (Appreciable amount of fines)
	Silts and Clays Liquid Limit <50
	Silts and Clays Liquid Limit >50
	Highly Organic Soils

ABBREVIATIONS

MR = Mud Rotary	Tv = Field Vane Shear Test (Torvane)
HSA = Hollow Stem Auger	PP = Pocket Penetrometer
SSA = Solid Stem Auger	PI = Plasticity Index
SS = Split Spoon Sampler	MC = Moisture Content
U = Undisturbed Sample (Shelby Tube)	CO = Consolidation
MC = Modified California Sampler	UC = Unconfined Compression Test
V = Vibracore	SI = Sieve Analysis
M = Macrocore	DS = Direct Shear
	PID = Photoionization Detector
USCS = Unified Soil Classification System (ASTM D2487)	ppm = Parts Per Million
NYCBC = New York City Building Code	REC = Recovery
WOR = Weight of Rods	RQD = Rock Quality Designation
WOH= Weight of Hammer	▼ = Measured Water Level
SPT = Standard Penetration Test (ASTM D1586)	
N-Value = Cumulative number of uncorrected blows for the middle two six-inch intervals (blows/foot).	

TEST BORING LOG



GZA
GeoEnvironmental, Inc
Engineers and Scientists

219 Hudson Street
 New York, NY

EXPLORATION NO.: B-03
SHEET: 1 of 4
PROJECT NO: 41.0162188.00
REVIEWED BY: A. Sugrue

Logged By: M. Yang
Drilling Co.: CMI Subsurface Investigations
Foreman: N. Moretti

Type of Rig: Truck
Rig Model: B-61
Drilling Method: MR

Boring Location: See Plan
Ground Surface Elev. (ft.): 19.7
Final Boring Depth (ft.): 102
Date Start - Finish: 4/8/2014 - 4/8/2014

H. Datum:
V. Datum: NAVD88

Hammer Type: Donut
Hammer Weight (lb.): 140
Hammer Fall (in.): 30
Auger or Casing O.D./I.D Dia (in.): 4

Sampler Type: SS
Sampler O.D. (in.): 2.0
Sampler Length (in.): 24
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time
Obs. in	existing	wells	

Depth (ft)	Casing Blows/ Core Rate	Sample						SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Depth (ft.)	Stratum Description	Elev. (ft.)
		No.	Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)								
5		S-1	4-6	24	6	15 7 6 13	13	S-1 : Medium dense, brown, fine to coarse SAND, trace Gravel, trace Silt.			4	REINFORCED CONCRETE	15.7	
		S-2	6-8	24	10	58 35 25 18	60	S-2 : Top 4": Medium dense, brown, fine to coarse SAND, trace Gravel, trace Silt. Bottom 6": Dense, brown, fine to medium SAND, little Silt.				FILL (Class 7)		
10		S-3	8-10	24	4	14 8 4 5	12	S-3 : Medium dense, brown, fine to coarse SAND, little Silt, trace Gravel.			10		9.7	
		S-4	10-12	24	14	3 5 3 4	8	S-4 : Top 6": Loose, dark gray PEAT. Bottom 8": Loose, brown, fine SAND, trace Silt, trace Gravel.						
15		S-5	15-17	24	6	15 8 9 11	17	S-5 : Medium dense, brown to gray, fine to medium SAND, some Silt and Clay, little fine Gravel.						
20		S-6	20-22	24	14	23 19 26 18	45	S-6 : Medium dense, brown, fine to coarse SAND, trace Silt.				SAND (Class 3b)		
25		S-7	25-27	24	10	13 8 9 9	17	S-7 : Medium dense, brown, fine to medium SAND and Clayey SILT, trace Gravel.						
30											30		-10.3	

REMARKS

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Exploration No.:
B-03

GZA TEMPLATE TEST BORING; 4/28/2014; 11:48:27 AM

TEST BORING LOG



GZA
GeoEnvironmental, Inc
Engineers and Scientists

219 Hudson Street
 New York, NY

EXPLORATION NO.: B-03
SHEET: 2 of 4
PROJECT NO: 41.0162188.00
REVIEWED BY: A. Sugrue

Logged By: M. Yang
Drilling Co.: CMI Subsurface Investigations
Foreman: N. Moretti

Type of Rig: Truck
Rig Model: B-61
Drilling Method: MR

Boring Location: See Plan
Ground Surface Elev. (ft.): 19.7
Final Boring Depth (ft.): 102
Date Start - Finish: 4/8/2014 - 4/8/2014

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Hammer Type: Donut
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Sampler Type: SS
Sampler O.D. (in.): 2.0
Sampler Length (in.): 24
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time
Obs. in	existing	wells	

Depth (ft)	Casing Blows/ Core Rate	Sample						SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Depth (ft.)	Stratum Description	Elev. (ft.)
		No.	Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)								
		S-8	30-32	24	18	5 7 11 18	18	S-8 : Medium dense, brown SILT and CLAY and fine to medium SAND.						
35		S-9	35-37	24	12	11 12 15 19	27	S-9 : Medium dense, brown, fine to medium SAND, little Silt.						
40		S-10	40-42	24	6	15 16 11 13	27	S-10 : Medium dense, brown, fine to medium SAND, trace Silt.						
45		S-11	45-47	24	6	10 11 11 13	22	S-11 : Medium dense, red-brown, fine to medium SAND, trace Silt.					SAND (Class 3b)	
50		S-12	50-52	24	10	10 10 11 18	21	S-12 : Medium dense, red-brown, fine to medium SAND, trace Silt.						
55		S-13	55-57	24	10	10 13 13 15	26	S-13 : Medium dense, red-brown, fine to medium SAND, trace Silt.						
60											60		-40.3	

REMARKS

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Exploration No.:
B-03

TEST BORING LOG



GZA
GeoEnvironmental, Inc
Engineers and Scientists

219 Hudson Street
 New York, NY

EXPLORATION NO.: B-03
SHEET: 3 of 4
PROJECT NO: 41.0162188.00
REVIEWED BY: A. Sugrue

Logged By: M. Yang
Drilling Co.: CMI Subsurface Investigations
Foreman: N. Moretti

Type of Rig: Truck
Rig Model: B-61
Drilling Method: MR

Boring Location: See Plan
Ground Surface Elev. (ft.): 19.7
Final Boring Depth (ft.): 102
Date Start - Finish: 4/8/2014 - 4/8/2014

H. Datum:
V. Datum: NAVD88

Hammer Type: Donut
Hammer Weight (lb.): 140
Hammer Fall (in.): 30
Auger or Casing O.D./I.D Dia (in.): 4

Sampler Type: SS
Sampler O.D. (in.): 2.0
Sampler Length (in.): 24
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time
Obs. in	existing	wells	

Depth (ft)	Casing Blows/ Core Rate	Sample						SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Depth (ft.)	Stratum Description	Elev. (ft.)
		No.	Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)								
65		S-14	60-62	24	10	16 16 15 17	31	S-14 : Medium dense, red-brown, fine to medium SAND, trace Silt.						
		S-15	65-67	24	10	13 13 15 16	28	S-15 : Medium dense, red-brown, fine to coarse SAND, trace Silt.						
70		S-16	70-75	24	8	14 13 13 13	26	S-16 : Medium dense, red-brown, fine to coarse SAND, trace Silt.						
75		S-17	75-77	24	6	14 17 30 30	47	S-17 : Top 2": Dense GRAVEL, little Sand. Bottom 4": Red-brown, fine to coarse SAND, trace Silt.				SAND (Class 3b)		
80		S-18	80-82	24	20	9 19 23 50	42	S-18 : Dense, red-brown , fine to coarse SAND, trace Silt.						
85		S-19	85-87	24	16	5 7 7 14	14	S-19 : Medium dense, red-brown, medium to coarse SAND, trace fine Sand, trace Silt.						
90											90		-70.3	

REMARKS

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Exploration No.:
B-03

TEST BORING LOG



GZA
GeoEnvironmental, Inc
Engineers and Scientists

219 Hudson Street
 New York, NY

EXPLORATION NO.: B-03
SHEET: 4 of 4
PROJECT NO: 41.0162188.00
REVIEWED BY: A. Sugrue

Logged By: M. Yang
Drilling Co.: CMI Subsurface Investigations
Foreman: N. Moretti

Type of Rig: Truck
Rig Model: B-61
Drilling Method: MR

Boring Location: See Plan
Ground Surface Elev. (ft.): 19.7
Final Boring Depth (ft.): 102
Date Start - Finish: 4/8/2014 - 4/8/2014

H. Datum:
V. Datum: NAVD88

Hammer Type: Donut
Hammer Weight (lb.): 140
Hammer Fall (in.): 30
Auger or Casing O.D./I.D Dia (in.): 4

Sampler Type: SS
Sampler O.D. (in.): 2.0
Sampler Length (in.): 24
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time
Obs. in	existing	wells	

Depth (ft)	Casing Blows/ Core Rate	Sample						SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Depth (ft.)	Stratum Description	Elev. (ft.)
		No.	Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)								
95		S-20	90-92	24	18	9 8 10 20	18	S-20 : Medium dense, red-brown, medium to coarse SAND, trace fine Sand, trace Silt.						
		S-21	95-97	24	20	10 19 29 48	48	S-21 : Dense, red-brown, fine to coarse SAND, trace Silt.					SAND (Class 3b)	
		S-22	100-102	24	6	63 39 11 7	50	S-22 : Dense, red-brown, fine to coarse SAND, trace Silt.				102	-82.3	
								End of exploration at 102 feet.						

REMARKS

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Exploration No.:
B-03



APPENDIX E

CONSTRUCTION DETAILS FOR BORINGS, MONITORING WELLS AND SOIL VAPOR POINTS

**Appendix E -
Construction Details for Borings, Monitoring Wells and Soil Vapor Points
Remedial Investigation Report
489 Canal Street
New York, NY**

Type of Exploration	Identification Number	Date of Construction	Total Depth (ft.)	Diameter (in.)	Ground Surface Elevation (Manhattan Borough Datum in Ft)	Installed By	Construction Material (PVC, steel, etc.)
Soil Vapor Monitoring Points	SVW-1	1/22/2013	5	6"	Not Available	SMES, direct-push	6" stainless steel implant
	SVW-2		5	6"	Not Available		
	SVW-3		5	6"	Not Available		
Soil Borings	GP-1	4/11/2014	6	2	Not Available	SMES, direct-push	Not Applicable
	GP-2		6	2	Not Available		
	GP-3		6	2	Not Available		
	GP-4		6	2	Not Available		
	GP-5		6	2	Not Available		
	GP-6		6	2	Not Available		
Geotechnical Boring	B-1	12/20/2012	37	2	8.1	SMDC, Mud Rotary	Not Applicable
Geotechnical Boring	B-2		37	2	7.8		Not Applicable
Geotechnical Boring	B-3	4/8/2014	102	2	Not Available	GZA, Mud Rotary	Not Applicable
Monitor Wells	MW-1	1/16/2013	17	2	Not Available	SMES, direct-push	PVC
Monitor Wells	MW-2		17	2	Not Available		PVC
Monitor Wells	MW-3		17	2	Not Available		PVC



APPENDIX F

SOIL MECHANICS ENVIRONMENTAL SERVICES DEPTH TO WATER MEASUREMENTS



APPENDIX G

GZA MAY 2014 SUPPLEMENTAL GROUNDWATER SAMPLING PARAMETERS



APPENDIX H

LABORATORY ANALYTICAL REPORTS

315-431-9730

Date: 25-Jan-13

Centek Laboratories, LLC

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-001A

Client Sample ID: SVW-1
Tag Number: 192.57
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	1/23/2013 11:09:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/23/2013 11:09:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/23/2013 11:09:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/23/2013 11:09:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/23/2013 11:09:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/23/2013 11:09:00 PM
1,2,4-Trimethylbenzene	1.4	0.75		ug/m3	1	1/23/2013 11:09:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/23/2013 11:09:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/23/2013 11:09:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/23/2013 11:09:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/23/2013 11:09:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/23/2013 11:09:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/23/2013 11:09:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/23/2013 11:09:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/23/2013 11:09:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/23/2013 11:09:00 PM
2,2,4-trimethylpentane	2.2	0.71		ug/m3	1	1/23/2013 11:09:00 PM
4-ethyltoluene	0.50	0.75	J	ug/m3	1	1/23/2013 11:09:00 PM
Acetone	6.9	0.72		ug/m3	1	1/23/2013 11:09:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/23/2013 11:09:00 PM
Benzene	5.6	0.49		ug/m3	1	1/23/2013 11:09:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/23/2013 11:09:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/23/2013 11:09:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/23/2013 11:09:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/23/2013 11:09:00 PM
Carbon disulfide	0.41	0.47	J	ug/m3	1	1/23/2013 11:09:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/23/2013 11:09:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/23/2013 11:09:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/23/2013 11:09:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	1/23/2013 11:09:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/23/2013 11:09:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/23/2013 11:09:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/23/2013 11:09:00 PM
Cyclohexane	3.3	0.52		ug/m3	1	1/23/2013 11:09:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/23/2013 11:09:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/23/2013 11:09:00 PM
Ethylbenzene	0.84	0.66		ug/m3	1	1/23/2013 11:09:00 PM
Freon 11	1.1	0.86		ug/m3	1	1/23/2013 11:09:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	1/23/2013 11:09:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/23/2013 11:09:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-001A

Client Sample ID: SVW-1
Tag Number: 192.57
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15			TO-15		Analyst: RJP	
Freon 12	2.5	0.75		ug/m3	1	1/23/2013 11:09:00 PM
Heptane	1.6	0.62		ug/m3	1	1/23/2013 11:09:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/23/2013 11:09:00 PM
Hexane	2.4	0.54		ug/m3	1	1/23/2013 11:09:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/23/2013 11:09:00 PM
m&p-Xylene	3.0	1.3		ug/m3	1	1/23/2013 11:09:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/23/2013 11:09:00 PM
Methyl Ethyl Ketone	2.8	0.90		ug/m3	1	1/23/2013 11:09:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/23/2013 11:09:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/23/2013 11:09:00 PM
Methylene chloride	0.56	0.53		ug/m3	1	1/23/2013 11:09:00 PM
o-Xylene	0.84	0.66		ug/m3	1	1/23/2013 11:09:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/23/2013 11:09:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/23/2013 11:09:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/23/2013 11:09:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	1/23/2013 11:09:00 PM
Toluene	4.8	0.57		ug/m3	1	1/23/2013 11:09:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/23/2013 11:09:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/23/2013 11:09:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	1/23/2013 11:09:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/23/2013 11:09:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/23/2013 11:09:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/23/2013 11:09:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-002A

Client Sample ID: SVW-2
Tag Number: 170.127
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	1/23/2013 11:44:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/23/2013 11:44:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/23/2013 11:44:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/23/2013 11:44:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/23/2013 11:44:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/23/2013 11:44:00 PM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	1/23/2013 11:44:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/23/2013 11:44:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/23/2013 11:44:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/23/2013 11:44:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/23/2013 11:44:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/23/2013 11:44:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/23/2013 11:44:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/23/2013 11:44:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/23/2013 11:44:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/23/2013 11:44:00 PM
2,2,4-trimethylpentane	1.3	0.71		ug/m3	1	1/23/2013 11:44:00 PM
4-ethyltoluene	0.50	0.75	J	ug/m3	1	1/23/2013 11:44:00 PM
Acetone	36	7.2		ug/m3	10	1/24/2013 3:10:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/23/2013 11:44:00 PM
Benzene	2.1	0.49		ug/m3	1	1/23/2013 11:44:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/23/2013 11:44:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/23/2013 11:44:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/23/2013 11:44:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/23/2013 11:44:00 PM
Carbon disulfide	4.3	0.47		ug/m3	1	1/23/2013 11:44:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/23/2013 11:44:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/23/2013 11:44:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/23/2013 11:44:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	1/23/2013 11:44:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/23/2013 11:44:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/23/2013 11:44:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/23/2013 11:44:00 PM
Cyclohexane	3.3	0.52		ug/m3	1	1/23/2013 11:44:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/23/2013 11:44:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/23/2013 11:44:00 PM
Ethylbenzene	0.88	0.66		ug/m3	1	1/23/2013 11:44:00 PM
Freon 11	1.1	0.86		ug/m3	1	1/23/2013 11:44:00 PM
Freon 113	1.0	1.2	J	ug/m3	1	1/23/2013 11:44:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/23/2013 11:44:00 PM

Qualifiers: ** Reporting Limit ~ Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected at or below quantitation limits
 JN Non-routine analyte, Quantitation estimated, ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-002A

Client Sample ID: SVW-2
Tag Number: 170.127
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.6	0.75		ug/m3	1	1/23/2013 11:44:00 PM
Heptane	2.2	0.62		ug/m3	1	1/23/2013 11:44:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/23/2013 11:44:00 PM
Hexane	2.6	0.54		ug/m3	1	1/23/2013 11:44:00 PM
Isopropyl alcohol	2.0	0.37		ug/m3	1	1/23/2013 11:44:00 PM
m&p-Xylene	3.1	1.3		ug/m3	1	1/23/2013 11:44:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/23/2013 11:44:00 PM
Methyl Ethyl Ketone	3.6	0.90		ug/m3	1	1/23/2013 11:44:00 PM
Methyl Isobutyl Ketone	1.4	1.2		ug/m3	1	1/23/2013 11:44:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/23/2013 11:44:00 PM
Methylene chloride	1.2	0.53		ug/m3	1	1/23/2013 11:44:00 PM
o-Xylene	0.93	0.66		ug/m3	1	1/23/2013 11:44:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/23/2013 11:44:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/23/2013 11:44:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/23/2013 11:44:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	1/23/2013 11:44:00 PM
Toluene	5.4	0.57		ug/m3	1	1/23/2013 11:44:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/23/2013 11:44:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/23/2013 11:44:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	1/23/2013 11:44:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/23/2013 11:44:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/23/2013 11:44:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/23/2013 11:44:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-003A

Client Sample ID: SVW-3
Tag Number: 234.263
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	1/24/2013 12:18:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/24/2013 12:18:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/24/2013 12:18:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/24/2013 12:18:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/24/2013 12:18:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/24/2013 12:18:00 AM
1,2,4-Trimethylbenzene	2.1	0.75		ug/m3	1	1/24/2013 12:18:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/24/2013 12:18:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/24/2013 12:18:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/24/2013 12:18:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/24/2013 12:18:00 AM
1,3,5-Trimethylbenzene	0.55	0.75	J	ug/m3	1	1/24/2013 12:18:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/24/2013 12:18:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/24/2013 12:18:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/24/2013 12:18:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/24/2013 12:18:00 AM
2,2,4-trimethylpentane	0.57	0.71	J	ug/m3	1	1/24/2013 12:18:00 AM
4-ethyltoluene	0.60	0.75	J	ug/m3	1	1/24/2013 12:18:00 AM
Acetone	16	7.2		ug/m3	10	1/24/2013 4:18:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/24/2013 12:18:00 AM
Benzene	1.4	0.49		ug/m3	1	1/24/2013 12:18:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/24/2013 12:18:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/24/2013 12:18:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	1/24/2013 12:18:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	1/24/2013 12:18:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/24/2013 12:18:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/24/2013 12:18:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/24/2013 12:18:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	1/24/2013 12:18:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	1/24/2013 12:18:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	1/24/2013 12:18:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/24/2013 12:18:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/24/2013 12:18:00 AM
Cyclohexane	1.7	0.52		ug/m3	1	1/24/2013 12:18:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/24/2013 12:18:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/24/2013 12:18:00 AM
Ethylbenzene	0.75	0.66		ug/m3	1	1/24/2013 12:18:00 AM
Freon 11	1.1	0.86		ug/m3	1	1/24/2013 12:18:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	1/24/2013 12:18:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	1/24/2013 12:18:00 AM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

- Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-003A

Client Sample ID: SVW-3
Tag Number: 234.263
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.7	0.75		ug/m3	1	1/24/2013 12:18:00 AM
Heptane	1.4	0.62		ug/m3	1	1/24/2013 12:18:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/24/2013 12:18:00 AM
Hexane	1.0	0.54		ug/m3	1	1/24/2013 12:18:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/24/2013 12:18:00 AM
m&p-Xylene	2.7	1.3		ug/m3	1	1/24/2013 12:18:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/24/2013 12:18:00 AM
Methyl Ethyl Ketone	5.2	0.90		ug/m3	1	1/24/2013 12:18:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/24/2013 12:18:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/24/2013 12:18:00 AM
Methylene chloride	0.49	0.53	J	ug/m3	1	1/24/2013 12:18:00 AM
o-Xylene	0.88	0.66		ug/m3	1	1/24/2013 12:18:00 AM
Propylene	< 0.26	0.26		ug/m3	1	1/24/2013 12:18:00 AM
Styrene	< 0.65	0.65		ug/m3	1	1/24/2013 12:18:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/24/2013 12:18:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	1/24/2013 12:18:00 AM
Toluene	3.2	0.57		ug/m3	1	1/24/2013 12:18:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/24/2013 12:18:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/24/2013 12:18:00 AM
Trichloroethene	< 0.82	0.82		ug/m3	1	1/24/2013 12:18:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/24/2013 12:18:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/24/2013 12:18:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/24/2013 12:18:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT:	Soil Mechanics Environmental Services	Client Sample ID:	SVW-1
Lab Order:	C1301048	Tag Number:	192.57
Project:	Manhattan 219 Hudson St	Collection Date:	1/22/2013
Lab ID:	C1301048-001A	Matrix:	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-5			"Hg		1/23/2013
Lab Vacuum Out	-30			"Hg		1/23/2013
HELIUM LEAK TEST						
			GC			Analyst: RJP
Helium	ND	0.75		%	1	1/25/2013
1UG/M3 BY METHOD TO15						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,2,4-Trimethylbenzene	0.28	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/23/2013 11:09:00 PM
2,2,4-trimethylpentane	0.47	0.15		ppbV	1	1/23/2013 11:09:00 PM
4-ethyltoluene	0.10	0.15	J	ppbV	1	1/23/2013 11:09:00 PM
Acetone	2.8	0.30		ppbV	1	1/23/2013 11:09:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Benzene	1.7	0.15		ppbV	1	1/23/2013 11:09:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Carbon disulfide	0.13	0.15	J	ppbV	1	1/23/2013 11:09:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Cyclohexane	0.93	0.15		ppbV	1	1/23/2013 11:09:00 PM

Qualifiers:	** Reporting Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-001A

Client Sample ID: SVW-1
Tag Number: 192.57
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/23/2013 11:09:00 PM
Ethylbenzene	0.19	0.15		ppbV	1	1/23/2013 11:09:00 PM
Freon 11	0.20	0.15		ppbV	1	1/23/2013 11:09:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Freon 12	0.49	0.15		ppbV	1	1/23/2013 11:09:00 PM
Heptane	0.38	0.15		ppbV	1	1/23/2013 11:09:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Hexane	0.66	0.15		ppbV	1	1/23/2013 11:09:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
m&p-Xylene	0.67	0.30		ppbV	1	1/23/2013 11:09:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/23/2013 11:09:00 PM
Methyl Ethyl Ketone	0.94	0.30		ppbV	1	1/23/2013 11:09:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/23/2013 11:09:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Methylene chloride	0.16	0.15		ppbV	1	1/23/2013 11:09:00 PM
o-Xylene	0.19	0.15		ppbV	1	1/23/2013 11:09:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Toluene	1.3	0.15		ppbV	1	1/23/2013 11:09:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/23/2013 11:09:00 PM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	1/23/2013 11:09:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-002A

Client Sample ID: SVW-2
Tag Number: 170.127
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-5			"Hg		1/23/2013
Lab Vacuum Out	-30			"Hg		1/23/2013
HELIUM LEAK TEST						
			GC			Analyst: RJP
Helium	ND	0.75		%	1	1/25/2013
1UG/M3 BY METHOD TO15						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,2,4-Trimethylbenzene	0.35	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/23/2013 11:44:00 PM
2,2,4-trimethylpentane	0.28	0.15		ppbV	1	1/23/2013 11:44:00 PM
4-ethyltoluene	0.10	0.15	J	ppbV	1	1/23/2013 11:44:00 PM
Acetone	15	3.0		ppbV	10	1/24/2013 3:10:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Benzene	0.64	0.15		ppbV	1	1/23/2013 11:44:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Carbon disulfide	1.4	0.15		ppbV	1	1/23/2013 11:44:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Cyclohexane	0.93	0.15		ppbV	1	1/23/2013 11:44:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-002A

Client Sample ID: SVW-2
Tag Number: 170.127
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/23/2013 11:44:00 PM
Ethylbenzene	0.20	0.15		ppbV	1	1/23/2013 11:44:00 PM
Freon 11	0.20	0.15		ppbV	1	1/23/2013 11:44:00 PM
Freon 113	0.13	0.15	J	ppbV	1	1/23/2013 11:44:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Freon 12	0.52	0.15		ppbV	1	1/23/2013 11:44:00 PM
Heptane	0.54	0.15		ppbV	1	1/23/2013 11:44:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Hexane	0.72	0.15		ppbV	1	1/23/2013 11:44:00 PM
Isopropyl alcohol	0.79	0.15		ppbV	1	1/23/2013 11:44:00 PM
m&p-Xylene	0.71	0.30		ppbV	1	1/23/2013 11:44:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/23/2013 11:44:00 PM
Methyl Ethyl Ketone	1.2	0.30		ppbV	1	1/23/2013 11:44:00 PM
Methyl Isobutyl Ketone	0.34	0.30		ppbV	1	1/23/2013 11:44:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Methylene chloride	0.33	0.15		ppbV	1	1/23/2013 11:44:00 PM
o-Xylene	0.21	0.15		ppbV	1	1/23/2013 11:44:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Toluene	1.4	0.15		ppbV	1	1/23/2013 11:44:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/23/2013 11:44:00 PM
Surr: Bromofluorobenzene	86.0	70-130		%REC	1	1/23/2013 11:44:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-003A

Client Sample ID: SVW-3
Tag Number: 234.263
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-5			"Hg		1/23/2013
Lab Vacuum Out	-30			"Hg		1/23/2013
HELIUM LEAK TEST						
			GC			Analyst: RJP
Helium	ND	0.75		%	1	1/25/2013
1UG/M3 BY METHOD TO15						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,2,4-Trimethylbenzene	0.42	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,3,5-Trimethylbenzene	0.11	0.15	J	ppbV	1	1/24/2013 12:18:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/24/2013 12:18:00 AM
2,2,4-trimethylpentane	0.12	0.15	J	ppbV	1	1/24/2013 12:18:00 AM
4-ethyltoluene	0.12	0.15	J	ppbV	1	1/24/2013 12:18:00 AM
Acetone	6.6	3.0		ppbV	10	1/24/2013 4:18:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Benzene	0.42	0.15		ppbV	1	1/24/2013 12:18:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Bromoform	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Chloroform	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Cyclohexane	0.50	0.15		ppbV	1	1/24/2013 12:18:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 * Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 25-Jan-13

CLIENT: Soil Mechanics Environmental Services
Lab Order: C1301048
Project: Manhattan 219 Hudson St
Lab ID: C1301048-003A

Client Sample ID: SVW-3
Tag Number: 234.263
Collection Date: 1/22/2013
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/24/2013 12:18:00 AM
Ethylbenzene	0.17	0.15		ppbV	1	1/24/2013 12:18:00 AM
Freon 11	0.19	0.15		ppbV	1	1/24/2013 12:18:00 AM
Freon 113	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Freon 114	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Freon 12	0.54	0.15		ppbV	1	1/24/2013 12:18:00 AM
Heptane	0.33	0.15		ppbV	1	1/24/2013 12:18:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Hexane	0.29	0.15		ppbV	1	1/24/2013 12:18:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
m&p-Xylene	0.62	0.30		ppbV	1	1/24/2013 12:18:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/24/2013 12:18:00 AM
Methyl Ethyl Ketone	1.7	0.30		ppbV	1	1/24/2013 12:18:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/24/2013 12:18:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Methylene chloride	0.14	0.15	J	ppbV	1	1/24/2013 12:18:00 AM
o-Xylene	0.20	0.15		ppbV	1	1/24/2013 12:18:00 AM
Propylene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Styrene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Toluene	0.84	0.15		ppbV	1	1/24/2013 12:18:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/24/2013 12:18:00 AM
Surr: Bromofluorobenzene	89.0	70-130		%REC	1	1/24/2013 12:18:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit



LIAL# 3011713

January 25, 2013

Page 1 of 52

Soil Mechanics
Robert J. Cardinale
3770 Merrick Road
Seaford NY, 11783

Re: 12-703 219 Hudson St Manhattan

Dear Robert J. Cardinale,

Enclosed please find Long Island Analytical Laboratories' analysis report(s) for sample(s) received on January 17, 2013. The report was issued on January 25, 2013 for the following:

CLIENT ID	ANALYSIS
GP1/S-1	TAL Target Analyte List, TCL Target Compound List
GP1/S-3	TAL Target Analyte List, TCL Target Compound List
GP2/S-1	TAL Target Analyte List, TCL Target Compound List
GP2/S-2	TAL Target Analyte List, TCL Target Compound List
GP3/S-1	TAL Target Analyte List, TCL Target Compound List
GP3/S-3	TAL Target Analyte List, TCL Target Compound List

Samples received at 1.7 ° C

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

Michael Veraldi - Laboratory Director



LIAL# 3011812

January 25, 2013

Page 1 of 28

Soil Mechanics
Robert J. Cardinale
3770 Merrick Road
Seaford NY, 11783

Re: 12-703 219 Hudson Street Manhattan

Dear Robert J. Cardinale,

Enclosed please find Long Island Analytical Laboratories' analysis report(s) for sample(s) received on January 18, 2013. The report was issued on January 25, 2013 for the following:

CLIENT ID	ANALYSIS
GP-4/S-1	TAL Target Analyte List, TCL Target Compound List
GP-5/S-1	TAL Target Analyte List, TCL Target Compound List
GP-6/S-3	TAL Target Analyte List, TCL Target Compound List

Samples received at 4.7 ° C

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

Michael Veraldi - Laboratory Director

Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 12:00	Sample ID: GP1/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-01
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.88	<5.88	ug/kg dry	
Chloromethane	74-87-3	5.88	<5.88	ug/kg dry	
Vinyl chloride	75-01-4	5.88	<5.88	ug/kg dry	
Bromomethane	74-83-9	5.88	<5.88	ug/kg dry	
Chloroethane	75-00-3	5.88	<5.88	ug/kg dry	
Trichlorofluoromethane	75-69-4	5.88	<5.88	ug/kg dry	
Acetone	67-64-1	11.8	<11.8	ug/kg dry	
1,1-Dichloroethylene	75-35-4	5.88	<5.88	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.88	<5.88	ug/kg dry	
Methyl Acetate	79-20-9	5.88	<5.88	ug/kg dry	
Methylene Chloride	75-09-2	5.88	<5.88	ug/kg dry	
Carbon disulfide	75-15-0	5.88	<5.88	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	5.88	<5.88	ug/kg dry	
trans-1,2-Dichloroethylene	156-60-5	5.88	<5.88	ug/kg dry	
1,1-Dichloroethane	75-34-3	5.88	<5.88	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	11.8	<11.8	ug/kg dry	
cis-1,2-Dichloroethylene	156-59-2	5.88	<5.88	ug/kg dry	
Bromochloromethane	74-97-5	5.88	<5.88	ug/kg dry	
Chloroform	67-66-3	5.88	<5.88	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	5.88	<5.88	ug/kg dry	
1,2-Dichloroethane	107-06-2	5.88	<5.88	ug/kg dry	
Carbon Tetrachloride	56-23-5	5.88	<5.88	ug/kg dry	
Benzene	71-43-2	5.88	<5.88	ug/kg dry	
Trichloroethylene	79-01-6	5.88	<5.88	ug/kg dry	
1,2-Dichloropropane	78-87-5	5.88	<5.88	ug/kg dry	
1,4-Dioxane	123-91-1	58.8	<58.8	ug/kg dry	
Bromodichloromethane	75-27-4	5.88	<5.88	ug/kg dry	
Methyl Isobutyl Ketone	108-10-1	11.8	<11.8	ug/kg dry	
cis-1,3-Dichloropropylene	10061-01-5	5.88	<5.88	ug/kg dry	
Toluene	108-88-3	5.88	<5.88	ug/kg dry	
trans-1,3-Dichloropropylene	10061-02-6	5.88	<5.88	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	5.88	<5.88	ug/kg dry	



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 12:00	Sample ID: GP1/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-01
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Ketone (2-Hexanone)	591-78-6	5.88	<5.88	ug/kg dry	
Dibromochloromethane	124-48-1	5.88	<5.88	ug/kg dry	
Tetrachloroethylene	127-18-4	5.88	<5.88	ug/kg dry	
1,2-Dibromoethane	106-93-4	5.88	<5.88	ug/kg dry	
Chlorobenzene	108-90-7	29.4	<29.4	ug/kg dry	3.A
Ethylbenzene	100-41-4	29.4	<29.4	ug/kg dry	3.A
m,p-Xylenes	108-38-3/106-42-3	58.8	<58.8	ug/kg dry	3.A
Styrene	100-42-5	29.4	<29.4	ug/kg dry	3.A
o-Xylene	95-47-6	29.4	29.4	ug/kg dry	3.E
Bromoform	75-25-2	29.4	<29.4	ug/kg dry	3.A
1,1,2,2-Tetrachloroethane	79-34-5	29.4	<29.4	ug/kg dry	3.A
Isopropylbenzene (Cumene)	98-82-8	29.4	<29.4	ug/kg dry	3.A
1,3-Dichlorobenzene	541-73-1	147	<147	ug/kg dry	3.A
1,4-Dichlorobenzene	106-46-7	147	<147	ug/kg dry	3.A
1,2-Dichlorobenzene	95-50-1	147	<147	ug/kg dry	3.A
1,2-Dibromo-3-chloropropane	96-12-8	147	<147	ug/kg dry	3.A
1,2,4-Trichlorobenzene	120-82-1	147	<147	ug/kg dry	3.A
1,2,3-Trichlorobenzene	87-61-6	147	<147	ug/kg dry	3.A
1H-Indene, 2,3-dihydro-4-methyl-	000824-22-6	NA	83.2	ug/kg dry	5.K
2-Pentene, 2,3-dimethyl-	010574-37-5	NA	10.8	ug/kg dry	5.K
Benzene, 1,2,3,5-tetramethyl-	000527-53-7	NA	139	ug/kg dry	5.K
Benzene, 1-ethyl-3-methyl-	000620-14-4	NA	73.5	ug/kg dry	5.K
Benzene, 1-methyl-2-(2-propenyl)-	001587-04-8	NA	84.3	ug/kg dry	5.K
Benzene, 2-ethyl-1,4-dimethyl-	001758-88-9	NA	181	ug/kg dry	5.K
Butane, 2,2,3,3-tetramethyl-	000594-82-1	NA	17.0	ug/kg dry	5.K
Hexane, 2,3,4-trimethyl-	000921-47-1	NA	29.0	ug/kg dry	5.K
o-Cymene	000527-84-4	NA	145	ug/kg dry	5.K
Spiro[2.4]hept-5-ene, 5-trimethylsilylmethyl-1	1000153-96-9	NA	99.6	ug/kg dry	5.K
unknown hydrocarbon	NA	NA	87.9	ug/kg dry	5.K

260/1600

Date Prepared: 01/18/2013

Preparation Method: EPA 5030C Modified

Date Analyzed: 01/23/2013

Analytical Method: EPA 8260 C



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 12:00	Sample ID: GP1/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-01
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	77.6	<77.6	ug/kg dry	
Acetophenone	989-86-2	106	<106	ug/kg dry	
Phenol	108-95-2	47.0	<47.0	ug/kg dry	
2-Chlorophenol	95-57-8	47.0	<47.0	ug/kg dry	
Caprolactam	105-60-2	176	<176	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	47.0	<47.0	ug/kg dry	
1,1-Biphenyl	92-52-4	141	<141	ug/kg dry	
1,2-Diphenylhydrazine	122-66-7	77.6	<77.6	ug/kg dry	
2-Methylphenol	95-48-7	47.0	<47.0	ug/kg dry	
Atrazine	1912-24-9	77.6	<77.6	ug/kg dry	
Bis(2-chloroisopropyl)ether	39638-32-9	47.0	<47.0	ug/kg dry	
Hexachloroethane	67-72-1	47.0	<47.0	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	47.0	<47.0	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	47.0	<47.0	ug/kg dry	
Nitrobenzene	98-95-3	47.0	<47.0	ug/kg dry	
Isophorone	78-59-1	47.0	<47.0	ug/kg dry	
2-Nitrophenol	88-75-5	47.0	<47.0	ug/kg dry	
2,4-Dimethylphenol	105-67-9	47.0	<47.0	ug/kg dry	
bis(2-Chloroethoxy)methane	111-91-1	47.0	<47.0	ug/kg dry	
2,4-Dichlorophenol	120-83-2	47.0	<47.0	ug/kg dry	
Naphthalene	91-20-3	47.0	<47.0	ug/kg dry	
4-Chloroaniline	106-47-8	47.0	<47.0	ug/kg dry	
Hexachlorobutadiene	87-68-3	47.0	<47.0	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	47.0	<47.0	ug/kg dry	
2-Methylnaphthalene	91-57-6	47.0	<47.0	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	47.0	<47.0	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	47.0	<47.0	ug/kg dry	
2,4,5-Trichlorophenol	95-95-4	47.0	<47.0	ug/kg dry	
2-Chloronaphthalene	91-58-7	47.0	<47.0	ug/kg dry	
2-Nitroaniline	88-74-4	47.0	<47.0	ug/kg dry	
Dimethyl phthalate	131-11-3	47.0	<47.0	ug/kg dry	
Acenaphthylene	208-96-8	47.0	61.1	ug/kg dry	

100% / 100%



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 12:00	Sample ID: GP1/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-01
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	47.0	<47.0	ug/kg dry	
3-Nitroaniline	99-09-2	47.0	<47.0	ug/kg dry	
Acenaphthene	83-32-9	47.0	112	ug/kg dry	20k/98k
2,4-Dinitrophenol	51-28-5	159	<159	ug/kg dry	
Dibenzofuran	132-64-9	47.0	56.4	ug/kg dry	7k/14k
4-Nitrophenol	100-02-7	159	<159	ug/kg dry	
2,4-Dinitrotoluene	121-14-2	47.0	<47.0	ug/kg dry	
Fluorene	86-73-7	47.0	82.3	ug/kg dry	70k/100k
Diethyl phthalate	84-66-2	47.0	<47.0	ug/kg dry	
4-Chlorophenyl phenyl ether	7005-72-3	47.0	<47.0	ug/kg dry	
4-Nitroaniline	100-01-6	47.0	<47.0	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	159	<159	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	47.0	<47.0	ug/kg dry	
4-Bromophenyl phenyl ether	101-55-3	47.0	<47.0	ug/kg dry	
Hexachlorobenzene	118-74-1	47.0	<47.0	ug/kg dry	
Pentachlorophenol	87-86-5	47.0	<47.0	ug/kg dry	
Phenanthrene	85-01-8	47.0	1270	ug/kg dry	100k/100k
Anthracene	120-12-7	47.0	303	ug/kg dry	100k/100k
Carbazole	86-74-8	47.0	84.6	ug/kg dry	—
Di-n-butyl phthalate	84-74-2	47.0	<47.0	ug/kg dry	
Fluoranthene	206-44-0	47.0	1850	ug/kg dry	100k/100k
Pyrene	129-00-0	47.0	1610	ug/kg dry	100k/100k
Butyl benzyl phthalate	85-68-7	47.0	<47.0	ug/kg dry	
Benzo(a)anthracene	56-55-3	47.0	782	ug/kg dry	1k/1k
Chrysene	218-01-9	47.0	815	ug/kg dry	1k/1k
3,3'-Dichlorobenzidine	91-94-1	47.0	<47.0	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	47.0	<47.0	ug/kg dry	
Di-n-octyl phthalate	117-84-0	47.0	<47.0	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	47.0	1080	ug/kg dry	1k/1k
Benzo(k)fluoranthene	207-08-9	47.0	396	ug/kg dry	800/1000.0
Benzo(a)pyrene	50-32-8	47.0	839	ug/kg dry	1k/1k



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110 Colin Drive • Holbrook, New York 11741

"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 12:00	Sample ID: GP1/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-01
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	47.0	549	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	47.0	134	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	47.0	629	ug/kg dry	
2-Pentanone, 4-hydroxy-	004161-60-8	NA	420	ug/kg dry	
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	25200	ug/kg dry	
4H-Cyclopenta[def]phenanthrene	000203-64-5	NA	303	ug/kg dry	
7H-Benz[de]anthracen-7-one	000082-05-3	NA	168	ug/kg dry	

*600/870
370/330
1000/1000*

Date Prepared: 01/17/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/21/2013

Analytical Method: EPA 8270 D



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Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	5.88	<5.88	ug/kg dry	
gamma-BHC	58-89-9	5.88	<5.88	ug/kg dry	
beta-BHC	319-85-7	5.88	<5.88	ug/kg dry	
delta-BHC	319-86-8	5.88	<5.88	ug/kg dry	
Heptachlor	76-44-8	5.88	<5.88	ug/kg dry	
Aldrin	309-00-2	5.88	<5.88	ug/kg dry	
Heptachlor Epoxide	1024-57-3	5.88	<5.88	ug/kg dry	
trans-Chlordane	5103-74-2	5.88	<5.88	ug/kg dry	
cis-Chlordane	5103-71-9	5.88	<5.88	ug/kg dry	
4,4'-DDE	72-55-9	5.88	<5.88	ug/kg dry	
Endosulfan I	959-98-8	5.88	<5.88	ug/kg dry	
Dieldrin	60-57-1	5.88	<5.88	ug/kg dry	
Endrin	72-20-8	5.88	<5.88	ug/kg dry	
4,4'-DDD	72-54-8	5.88	<5.88	ug/kg dry	
Endosulfan II	33213-65-9	5.88	<5.88	ug/kg dry	
4,4'-DDT	50-29-3	5.88	<5.88	ug/kg dry	
Endrin Aldehyde	7421-93-4	5.88	<5.88	ug/kg dry	
Methoxychlor	72-43-5	5.88	<5.88	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.88	<5.88	ug/kg dry	
Endrin Ketone	53494-70-5	5.88	<5.88	ug/kg dry	
Toxaphene	8001-35-2	118	<118	ug/kg dry	
Chlordane	12789-03-6	17.6	<17.6	ug/kg dry	

Date Prepared: 01/18/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/24/2013

Analytical Method: EPA 8081B



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Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	58.8	<58.8	ug/kg dry	
Aroclor-1260	11096-82-5	58.8	<58.8	ug/kg dry	
Aroclor-1221	11104-28-2	58.8	<58.8	ug/kg dry	
Aroclor-1232	11141-16-5	58.8	<58.8	ug/kg dry	
Aroclor-1242	53469-21-9	58.8	<58.8	ug/kg dry	
Aroclor-1248	12672-29-6	58.8	<58.8	ug/kg dry	
Aroclor-1254	11097-69-1	58.8	<58.8	ug/kg dry	
Aroclor-1262	37324-23-5	58.8	<58.8	ug/kg dry	
Aroclor-1268	11100-14-4	58.8	<58.8	ug/kg dry	

Date Prepared: 01/18/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/18/2013

Analytical Method: EPA 8082 A



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-01
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/21/2013	EPA 6010 C	163	4480	mg/kg dry	3.E
Antimony	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Arsenic	01/21/2013	EPA 6010 C	1.00	4.13	mg/kg dry	13/14
Barium	01/21/2013	EPA 6010 C	0.99	72.1	mg/kg dry	362/350
Beryllium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Cadmium	01/21/2013	EPA 6010 C	1.00	<1.00	mg/kg dry	
Calcium	01/21/2013	EPA 6010 C	813	25900	mg/kg dry	3.E
Chromium	01/21/2013	EPA 6010 C	1.65	8.47	mg/kg dry	20/36
Cobalt	01/21/2013	EPA 6010 C	1.65	3.13	mg/kg dry	
Copper	01/21/2013	EPA 6010 C	1.65	27.9	mg/kg dry	40/270
Iron	01/21/2013	EPA 6010 C	163	7800	mg/kg dry	3.E
Lead	01/21/2013	EPA 6010 C	3.25	198	mg/kg dry	63/400
Magnesium	01/21/2013	EPA 6010 C	3.25	2020	mg/kg dry	3.E
Manganese	01/21/2013	EPA 6010 C	8.25	169	mg/kg dry	
Nickel	01/21/2013	EPA 6010 C	1.65	8.72	mg/kg dry	20/130
Potassium	01/21/2013	EPA 6010 C	1.65	964	mg/kg dry	
Selenium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Silver	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Sodium	01/21/2013	EPA 6010 C	8.13	621	mg/kg dry	
Thallium	01/21/2013	EPA 6010 C	1.65	1.66	mg/kg dry	
Vanadium	01/21/2013	EPA 6010 C	1.65	12.5	mg/kg dry	
Zinc	01/21/2013	EPA 6010 C	3.25	209	mg/kg dry	3.E 109/220

Date Prepared: 01/18/2013

Preparation Method: EPA 3050B

Date Analyzed: 01/21/2013

Analytical Method: EPA 6010 C

Mercury	01/23/2013	EPA 7471 B	0.02	0.38	mg/kg dry	0.18/0.73
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Date Prepared: 01/18/2013

Preparation Method: EPA 7471 B

Date Analyzed: 01/23/2013

Analytical Method: EPA 7471 B

Cyanide	01/22/2013	EPA 9014	0.12	<0.12	mg/kg dry	
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Date Prepared: 01/18/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/22/2013

Analytical Method: EPA 9014



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Date (Time) Collected: 01/12/2013 12:30	Sample ID: GP1/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-02
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	278	<278	ug/kg dry	3.A
Chloromethane	74-87-3	278	<278	ug/kg dry	3.A
Vinyl chloride	75-01-4	278	<278	ug/kg dry	3.A
Bromomethane	74-83-9	278	<278	ug/kg dry	3.A
Chloroethane	75-00-3	278	<278	ug/kg dry	3.A
Trichlorofluoromethane	75-69-4	278	<278	ug/kg dry	3.A
Acetone	67-64-1	556	<556	ug/kg dry	3.A
1,1-Dichloroethylene	75-35-4	278	<278	ug/kg dry	3.A
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	278	<278	ug/kg dry	3.A
Methyl Acetate	79-20-9	278	<278	ug/kg dry	3.A
Methylene Chloride	75-09-2	278	<278	ug/kg dry	3.A
Carbon disulfide	75-15-0	278	<278	ug/kg dry	3.A
Methyl-tert-Butyl Ether	1634-04-4	278	<278	ug/kg dry	3.A
trans-1,2-Dichloroethylene	156-60-5	278	<278	ug/kg dry	3.A
1,1-Dichloroethane	75-34-3	278	<278	ug/kg dry	3.A
Methyl Ethyl Ketone (2-Butanone)	78-93-3	556	<556	ug/kg dry	3.A
cis-1,2-Dichloroethylene	156-59-2	278	<278	ug/kg dry	3.A
Bromochloromethane	74-97-5	278	<278	ug/kg dry	3.A
Chloroform	67-66-3	278	<278	ug/kg dry	3.A
1,1,1-Trichloroethane	71-55-6	278	<278	ug/kg dry	3.A
1,2-Dichloroethane	107-06-2	278	<278	ug/kg dry	3.A
Carbon Tetrachloride	56-23-5	278	<278	ug/kg dry	3.A
Benzene	71-43-2	278	<278	ug/kg dry	3.A
Trichloroethylene	79-01-6	278	<278	ug/kg dry	3.A
1,2-Dichloropropane	78-87-5	278	<278	ug/kg dry	3.A
1,4-Dioxane	123-91-1	2780	<2780	ug/kg dry	3.A
Bromodichloromethane	75-27-4	278	<278	ug/kg dry	3.A
Methyl Isobutyl Ketone	108-10-1	556	<556	ug/kg dry	3.A
cis-1,3-Dichloropropylene	10061-01-5	278	<278	ug/kg dry	3.A
Toluene	108-88-3	278	<278	ug/kg dry	3.A
trans-1,3-Dichloropropylene	10061-02-6	278	<278	ug/kg dry	3.A
1,1,2-Trichloroethane	79-00-5	278	<278	ug/kg dry	3.A



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Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Ketone (2-Hexanone)	591-78-6	278	<278	ug/kg dry	3.A
Dibromochloromethane	124-48-1	278	<278	ug/kg dry	3.A
Tetrachloroethylene	127-18-4	278	<278	ug/kg dry	3.A
1,2-Dibromoethane	106-93-4	278	<278	ug/kg dry	3.A
Chlorobenzene	108-90-7	278	<278	ug/kg dry	3.A
Ethylbenzene	100-41-4	278	51500	ug/kg dry	3.E, 4.A
m,p-Xylenes	108-38-3/106-42-3	556	6500	ug/kg dry	3.E
Styrene	100-42-5	278	<278	ug/kg dry	3.A
o-Xylene	95-47-6	278	394	ug/kg dry	3.E
Bromoform	75-25-2	278	<278	ug/kg dry	3.A
1,1,2,2-Tetrachloroethane	79-34-5	278	<278	ug/kg dry	3.A
Isopropylbenzene (Cumene)	98-82-8	278	19400	ug/kg dry	3.E, 4.A
1,3-Dichlorobenzene	541-73-1	278	<278	ug/kg dry	3.A
1,4-Dichlorobenzene	106-46-7	278	<278	ug/kg dry	3.A
1,2-Dichlorobenzene	95-50-1	278	<278	ug/kg dry	3.A
1,2-Dibromo-3-chloropropane	96-12-8	278	<278	ug/kg dry	3.A
1,2,4-Trichlorobenzene	120-82-1	278	<278	ug/kg dry	3.A
1,2,3-Trichlorobenzene	87-61-6	278	<278	ug/kg dry	3.A
1H-Indene, 2,3-dihydro-5-methyl-	000874-35-1	NA	4900	ug/kg dry	5.K
Benzene, 1,2,3,5-tetramethyl-	000527-53-7	NA	9240	ug/kg dry	5.K
Benzene, 1-ethenyl-4-ethyl-	003454-07-7	NA	4900	ug/kg dry	5.K
Benzene, 1-ethyl-2,3-dimethyl-	000933-98-2	NA	11900	ug/kg dry	5.K
Benzene, 1-ethyl-2-methyl-	000611-14-3	NA	5410	ug/kg dry	5.K
Benzene, 1-methyl-4-propyl-	001074-55-1	NA	3970	ug/kg dry	5.K
Cyclohexane, methyl-	000108-87-2	NA	21700	ug/kg dry	5.K
Decane, 2,5,6-trimethyl-	062108-23-0	NA	4540	ug/kg dry	5.K
Heptane	142-82-5	NA	9510	ug/kg dry	5.K
Heptane, 2-methyl-	000592-27-8	NA	18100	ug/kg dry	5.K
Heptane, 3-methyl-	000589-81-1	NA	20100	ug/kg dry	5.K
Heptane, 4-methyl-	000589-53-7	NA	7390	ug/kg dry	5.K
Hexane, 2,2-dimethyl-	000590-73-8	NA	12100	ug/kg dry	5.K

1K/1K
260/1600

2300



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Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Hexane, 2,3-dimethyl-	000584-94-1	NA	16300	ug/kg dry	5.K
Indan, 1-methyl-	000767-58-8	NA	6610	ug/kg dry	5.K
Mesitylene	000108-67-8	NA	5980	ug/kg dry	5.K
unknown hydrocarbon	NA	NA	7910	ug/kg dry	5.K

Date Prepared: 01/18/2013

Preparation Method: EPA 5030C Modified

Date Analyzed: 01/18/2013

Analytical Method: EPA 8260 C



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Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	73.4	<73.4	ug/kg dry	
Acetophenone	989-86-2	100	<100	ug/kg dry	
Phenol	108-95-2	44.5	<44.5	ug/kg dry	
2-Chlorophenol	95-57-8	44.5	<44.5	ug/kg dry	
Caprolactam	105-60-2	167	<167	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	44.5	<44.5	ug/kg dry	
1,1-Biphenyl	92-52-4	133	<133	ug/kg dry	
1,2-Diphenylhydrazine	122-66-7	73.4	<73.4	ug/kg dry	
2-Methylphenol	95-48-7	44.5	<44.5	ug/kg dry	
Atrazine	1912-24-9	73.4	<73.4	ug/kg dry	
Bis(2-chloroisopropyl)ether	39638-32-9	44.5	<44.5	ug/kg dry	
Hexachloroethane	67-72-1	44.5	<44.5	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	44.5	<44.5	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	44.5	<44.5	ug/kg dry	
Nitrobenzene	98-95-3	44.5	<44.5	ug/kg dry	
Isophorone	78-59-1	44.5	<44.5	ug/kg dry	
2-Nitrophenol	88-75-5	44.5	<44.5	ug/kg dry	
2,4-Dimethylphenol	105-67-9	44.5	<44.5	ug/kg dry	
bis(2-Chloroethoxy)methane	111-91-1	44.5	<44.5	ug/kg dry	
2,4-Dichlorophenol	120-83-2	44.5	<44.5	ug/kg dry	
Naphthalene	91-20-3	44.5	272	ug/kg dry	12/12/13
4-Chloroaniline	106-47-8	44.5	<44.5	ug/kg dry	
Hexachlorobutadiene	87-68-3	44.5	<44.5	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	44.5	<44.5	ug/kg dry	
2-Methylnaphthalene	91-57-6	44.5	449	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	44.5	<44.5	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	44.5	<44.5	ug/kg dry	
2,4,5-Trichlorophenol	95-95-4	44.5	<44.5	ug/kg dry	
2-Chloronaphthalene	91-58-7	44.5	<44.5	ug/kg dry	
2-Nitroaniline	88-74-4	44.5	<44.5	ug/kg dry	
Dimethyl phthalate	131-11-3	44.5	<44.5	ug/kg dry	
Acenaphthylene	208-96-8	44.5	<44.5	ug/kg dry	



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Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	44.5	<44.5	ug/kg dry	
3-Nitroaniline	99-09-2	44.5	<44.5	ug/kg dry	
Acenaphthene	83-32-9	44.5	<44.5	ug/kg dry	
2,4-Dinitrophenol	51-28-5	150	<150	ug/kg dry	
Dibenzofuran	132-64-9	44.5	<44.5	ug/kg dry	
4-Nitrophenol	100-02-7	150	<150	ug/kg dry	
2,4-Dinitrotoluene	121-14-2	44.5	<44.5	ug/kg dry	
Fluorene	86-73-7	44.5	<44.5	ug/kg dry	
Diethyl phthalate	84-66-2	44.5	<44.5	ug/kg dry	
4-Chlorophenyl phenyl ether	7005-72-3	44.5	<44.5	ug/kg dry	
4-Nitroaniline	100-01-6	44.5	<44.5	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	150	<150	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	44.5	<44.5	ug/kg dry	
4-Bromophenyl phenyl ether	101-55-3	44.5	<44.5	ug/kg dry	
Hexachlorobenzene	118-74-1	44.5	<44.5	ug/kg dry	
Pentachlorophenol	87-86-5	44.5	<44.5	ug/kg dry	
Phenanthrene	85-01-8	44.5	112	ug/kg dry	
Anthracene	120-12-7	44.5	<44.5	ug/kg dry	
Carbazole	86-74-8	44.5	<44.5	ug/kg dry	
Di-n-butyl phthalate	84-74-2	44.5	<44.5	ug/kg dry	
Fluoranthene	206-44-0	44.5	<44.5	ug/kg dry	
Pyrene	129-00-0	44.5	<44.5	ug/kg dry	
Butyl benzyl phthalate	85-68-7	44.5	<44.5	ug/kg dry	
Benzo(a)anthracene	56-55-3	44.5	<44.5	ug/kg dry	
Chrysene	218-01-9	44.5	<44.5	ug/kg dry	
3,3'-Dichlorobenzidine	91-94-1	44.5	<44.5	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	44.5	113	ug/kg dry	
Di-n-octyl phthalate	117-84-0	44.5	<44.5	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	44.5	<44.5	ug/kg dry	
Benzo(k)fluoranthene	207-08-9	44.5	<44.5	ug/kg dry	
Benzo(a)pyrene	50-32-8	44.5	<44.5	ug/kg dry	



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-02
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	44.5	<44.5	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	44.5	<44.5	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	44.5	<44.5	ug/kg dry	
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	8850	ug/kg dry	
Benzene, 1,2,4,5-tetramethyl-	000095-93-2	NA	638	ug/kg dry	
Cholestan-3-one, (5.beta.)-	000601-53-6	NA	1160	ug/kg dry	
Cholesterol (01)	000080-97-7	NA	852	ug/kg dry	
Cholesterol (02)	000080-97-7	NA	631	ug/kg dry	
Cyclic octaatomic sulfur	010544-50-0	NA	908	ug/kg dry	
Decane, 2,6,7-trimethyl-	062108-25-2	NA	1230	ug/kg dry	
Decane, 3,8-dimethyl-	017312-55-9	NA	529	ug/kg dry	
Decane, 5-methyl-	013151-35-4	NA	1230	ug/kg dry	
Heptadecane, 2,6,10,14-tetramethyl	18344	NA	1010	ug/kg dry	
Heptadecane, 2,6-dimethyl-	054105-67-8	NA	1340	ug/kg dry	
Nonane, 3,7-dimethyl-	017302-32-8	NA	1480	ug/kg dry	
Octane, 2,7-dimethyl-	001072-16-8	NA	831	ug/kg dry	
Pentadecane, 2,6,10-trimethyl-	003892-00-0	NA	1620	ug/kg dry	
Phenol, 4-(1,1,3,3-tetramethylbutyl)- (01)	000140-66-9	NA	509	ug/kg dry	
Phenol, 4-(1,1,3,3-tetramethylbutyl)- (02)	000140-66-9	NA	492	ug/kg dry	
Undecane, 2,6-dimethyl-	017301-23-4	NA	860	ug/kg dry	

Date Prepared: 01/17/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/21/2013

Analytical Method: EPA 8270 D



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 12:30	Sample ID: GP1/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-02
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	5.56	<5.56	ug/kg dry	
gamma-BHC	58-89-9	5.56	<5.56	ug/kg dry	
beta-BHC	319-85-7	5.56	<5.56	ug/kg dry	
delta-BHC	319-86-8	5.56	<5.56	ug/kg dry	
Heptachlor	76-44-8	5.56	<5.56	ug/kg dry	
Aldrin	309-00-2	5.56	<5.56	ug/kg dry	
Heptachlor Epoxide	1024-57-3	5.56	<5.56	ug/kg dry	
trans-Chlordane	5103-74-2	5.56	<5.56	ug/kg dry	
cis-Chlordane	5103-71-9	5.56	<5.56	ug/kg dry	
4,4'-DDE	72-55-9	5.56	<5.56	ug/kg dry	
Endosulfan I	959-98-8	5.56	<5.56	ug/kg dry	
Dieldrin	60-57-1	5.56	<5.56	ug/kg dry	
Endrin	72-20-8	5.56	<5.56	ug/kg dry	
4,4'-DDD	72-54-8	5.56	<5.56	ug/kg dry	
Endosulfan II	33213-65-9	5.56	<5.56	ug/kg dry	
4,4'-DDT	50-29-3	5.56	<5.56	ug/kg dry	
Endrin Aldehyde	7421-93-4	5.56	<5.56	ug/kg dry	
Methoxychlor	72-43-5	5.56	<5.56	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.56	<5.56	ug/kg dry	
Endrin Ketone	53494-70-5	5.56	<5.56	ug/kg dry	
Toxaphene	8001-35-2	111	<111	ug/kg dry	
Chlordane	12789-03-6	16.7	<16.7	ug/kg dry	

Date Prepared: 01/18/2013

Date Analyzed: 01/24/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8081B



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 12:30	Sample ID: GP1/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-02
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	55.6	<55.6	ug/kg dry	
Aroclor-1260	11096-82-5	55.6	<55.6	ug/kg dry	
Aroclor-1221	11104-28-2	55.6	<55.6	ug/kg dry	
Aroclor-1232	11141-16-5	55.6	<55.6	ug/kg dry	
Aroclor-1242	53469-21-9	55.6	<55.6	ug/kg dry	
Aroclor-1248	12672-29-6	55.6	<55.6	ug/kg dry	
Aroclor-1254	11097-69-1	55.6	<55.6	ug/kg dry	
Aroclor-1262	37324-23-5	55.6	<55.6	ug/kg dry	
Aroclor-1268	11100-14-4	55.6	<55.6	ug/kg dry	

Date Prepared: 01/18/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/21/2013

Analytical Method: EPA 8082 A



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-02
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/21/2013	EPA 6010 C	146	4760	mg/kg dry	3.E ✓
Antimony	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Arsenic	01/21/2013	EPA 6010 C	1.00	1.90	mg/kg dry	
Barium	01/21/2013	EPA 6010 C	0.88	40.0	mg/kg dry	3.0/3.50
Beryllium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Cadmium	01/21/2013	EPA 6010 C	1.00	<1.00	mg/kg dry	
Calcium	01/21/2013	EPA 6010 C	728	12800	mg/kg dry	3.E ✓
Chromium	01/21/2013	EPA 6010 C	1.65	11.1	mg/kg dry	3.0/3.4
Cobalt	01/21/2013	EPA 6010 C	1.65	3.95	mg/kg dry	
Copper	01/21/2013	EPA 6010 C	1.65	13.2	mg/kg dry	5.0/2.70
Iron	01/21/2013	EPA 6010 C	146	8420	mg/kg dry	3.E ✓
Lead	01/21/2013	EPA 6010 C	1.65	89.6	mg/kg dry	6.3/1.00
Magnesium	01/21/2013	EPA 6010 C	7.28	4140	mg/kg dry	3.E ✓
Manganese	01/21/2013	EPA 6010 C	8.25	110	mg/kg dry	
Nickel	01/21/2013	EPA 6010 C	1.65	13.0	mg/kg dry	3.0/1.30
Potassium	01/21/2013	EPA 6010 C	7.28	1010	mg/kg dry	3.E ✓
Selenium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Silver	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Sodium	01/21/2013	EPA 6010 C	7.28	144	mg/kg dry	
Thallium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Vanadium	01/21/2013	EPA 6010 C	1.65	19.0	mg/kg dry	
Zinc	01/21/2013	EPA 6010 C	1.65	47.1	mg/kg dry	1.0/2.200

Date Prepared: 01/18/2013

Preparation Method: EPA 3050B

Date Analyzed: 01/21/2013

Analytical Method: EPA 6010 C

Mercury	01/23/2013	EPA 7471 B	0.02	0.03	mg/kg dry	0.15
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Date Prepared: 01/18/2013

Preparation Method: EPA 7471 B

Date Analyzed: 01/23/2013

Analytical Method: EPA 7471 B

Cyanide	01/22/2013	EPA 9014	0.11	0.12	mg/kg dry	
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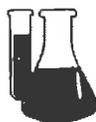
Date Prepared: 01/18/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/22/2013

Analytical Method: EPA 9014

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Date (Time) Collected: 01/12/2013 13:00	Sample ID: GP2/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-03
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.84	<5.84	ug/kg dry	
Chloromethane	74-87-3	5.84	<5.84	ug/kg dry	
Vinyl chloride	75-01-4	5.84	<5.84	ug/kg dry	
Bromomethane	74-83-9	5.84	<5.84	ug/kg dry	
Chloroethane	75-00-3	5.84	<5.84	ug/kg dry	
Trichlorofluoromethane	75-69-4	5.84	<5.84	ug/kg dry	
Acetone	67-64-1	11.7	<11.7	ug/kg dry	
1,1-Dichloroethylene	75-35-4	5.84	<5.84	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.84	<5.84	ug/kg dry	
Methyl Acetate	79-20-9	5.84	<5.84	ug/kg dry	
Methylene Chloride	75-09-2	5.84	<5.84	ug/kg dry	
Carbon disulfide	75-15-0	5.84	<5.84	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	5.84	<5.84	ug/kg dry	
trans-1,2-Dichloroethylene	156-60-5	5.84	<5.84	ug/kg dry	
1,1-Dichloroethane	75-34-3	5.84	<5.84	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	11.7	<11.7	ug/kg dry	
cis-1,2-Dichloroethylene	156-59-2	5.84	<5.84	ug/kg dry	
Bromochloromethane	74-97-5	5.84	<5.84	ug/kg dry	
Chloroform	67-66-3	5.84	<5.84	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	5.84	<5.84	ug/kg dry	
1,2-Dichloroethane	107-06-2	5.84	<5.84	ug/kg dry	
Carbon Tetrachloride	56-23-5	5.84	<5.84	ug/kg dry	
Benzene	71-43-2	5.84	<5.84	ug/kg dry	
Trichloroethylene	79-01-6	5.84	<5.84	ug/kg dry	
1,2-Dichloropropane	78-87-5	5.84	<5.84	ug/kg dry	
1,4-Dioxane	123-91-1	58.4	<58.4	ug/kg dry	
Bromodichloromethane	75-27-4	5.84	<5.84	ug/kg dry	
Methyl Isobutyl Ketone	108-10-1	11.7	<11.7	ug/kg dry	
cis-1,3-Dichloropropylene	10061-01-5	5.84	<5.84	ug/kg dry	
Toluene	108-88-3	5.84	<5.84	ug/kg dry	
trans-1,3-Dichloropropylene	10061-02-6	5.84	<5.84	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	5.84	<5.84	ug/kg dry	



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-03
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Ketone (2-Hexanone)	591-78-6	5.84	<5.84	ug/kg dry	
Dibromochloromethane	124-48-1	5.84	<5.84	ug/kg dry	
Tetrachloroethylene	127-18-4	5.84	<5.84	ug/kg dry	
1,2-Dibromoethane	106-93-4	5.84	<5.84	ug/kg dry	
Chlorobenzene	108-90-7	5.84	<5.84	ug/kg dry	
Ethylbenzene	100-41-4	5.84	<5.84	ug/kg dry	
m,p-Xylenes	108-38-3/106-42-3	11.7	<11.7	ug/kg dry	
Styrene	100-42-5	5.84	<5.84	ug/kg dry	
o-Xylene	95-47-6	5.84	<5.84	ug/kg dry	
Bromoform	75-25-2	5.84	<5.84	ug/kg dry	
1,1,2,2-Tetrachloroethane	79-34-5	5.84	<5.84	ug/kg dry	
Isopropylbenzene (Cumene)	98-82-8	5.84	<5.84	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	5.84	<5.84	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	5.84	<5.84	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	5.84	<5.84	ug/kg dry	
1,2-Dibromo-3-chloropropane	96-12-8	5.84	<5.84	ug/kg dry	
1,2,4-Trichlorobenzene	120-82-1	5.84	<5.84	ug/kg dry	
1,2,3-Trichlorobenzene	87-61-6	5.84	<5.84	ug/kg dry	

Date Prepared: 01/18/2013

Date Analyzed: 01/18/2013

Preparation Method: EPA 5030C Modified

Analytical Method: EPA 8260 C



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Date (Time) Collected: 01/12/2013 13:00	Sample ID: GP2/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-03
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	77.1	<77.1	ug/kg dry	
Acetophenone	989-86-2	105	<105	ug/kg dry	
Phenol	108-95-2	46.7	<46.7	ug/kg dry	
2-Chlorophenol	95-57-8	46.7	<46.7	ug/kg dry	
Caprolactam	105-60-2	175	<175	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	46.7	<46.7	ug/kg dry	
1,1-Biphenyl	92-52-4	140	<140	ug/kg dry	
1,2-Diphenylhydrazine	122-66-7	77.1	<77.1	ug/kg dry	
2-Methylphenol	95-48-7	46.7	<46.7	ug/kg dry	
Atrazine	1912-24-9	77.1	<77.1	ug/kg dry	
Bis(2-chloroisopropyl)ether	39638-32-9	46.7	<46.7	ug/kg dry	
Hexachloroethane	67-72-1	46.7	<46.7	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	46.7	<46.7	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	46.7	<46.7	ug/kg dry	
Nitrobenzene	98-95-3	46.7	<46.7	ug/kg dry	
Isophorone	78-59-1	46.7	<46.7	ug/kg dry	
2-Nitrophenol	88-75-5	46.7	<46.7	ug/kg dry	
2,4-Dimethylphenol	105-67-9	46.7	<46.7	ug/kg dry	
bis(2-Chloroethoxy)methane	111-91-1	46.7	<46.7	ug/kg dry	
2,4-Dichlorophenol	120-83-2	46.7	<46.7	ug/kg dry	
Naphthalene	91-20-3	46.7	<46.7	ug/kg dry	
4-Chloroaniline	106-47-8	46.7	<46.7	ug/kg dry	
Hexachlorobutadiene	87-68-3	46.7	<46.7	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	46.7	<46.7	ug/kg dry	
2-Methylnaphthalene	91-57-6	46.7	<46.7	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	46.7	<46.7	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	46.7	<46.7	ug/kg dry	
2,4,5-Trichlorophenol	95-95-4	46.7	<46.7	ug/kg dry	
2-Chloronaphthalene	91-58-7	46.7	<46.7	ug/kg dry	
2-Nitroaniline	88-74-4	46.7	<46.7	ug/kg dry	
Dimethyl phthalate	131-11-3	46.7	<46.7	ug/kg dry	
Acenaphthylene	208-96-8	46.7	86.5	ug/kg dry	



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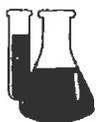
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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 13:00	Sample ID: GP2/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-03
Matrix: Soil	ELAP: #11693

Semivolatle Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	46.7	<46.7	ug/kg dry	
3-Nitroaniline	99-09-2	46.7	<46.7	ug/kg dry	
Acenaphthene	83-32-9	46.7	<46.7	ug/kg dry	
2,4-Dinitrophenol	51-28-5	158	<158	ug/kg dry	
Dibenzofuran	132-64-9	46.7	<46.7	ug/kg dry	
4-Nitrophenol	100-02-7	158	<158	ug/kg dry	
2,4-Dinitrotoluene	121-14-2	46.7	<46.7	ug/kg dry	
Fluorene	86-73-7	46.7	<46.7	ug/kg dry	
Diethyl phthalate	84-66-2	46.7	<46.7	ug/kg dry	
4-Chlorophenyl phenyl ether	7005-72-3	46.7	<46.7	ug/kg dry	
4-Nitroaniline	100-01-6	46.7	<46.7	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	158	<158	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	46.7	<46.7	ug/kg dry	
4-Bromophenyl phenyl ether	101-55-3	46.7	<46.7	ug/kg dry	
Hexachlorobenzene	118-74-1	46.7	<46.7	ug/kg dry	
Pentachlorophenol	87-86-5	46.7	<46.7	ug/kg dry	
Phenanthrene	85-01-8	46.7	<46.7	ug/kg dry	
Anthracene	120-12-7	46.7	58.4	ug/kg dry	
Carbazole	86-74-8	46.7	<46.7	ug/kg dry	
Di-n-butyl phthalate	84-74-2	46.7	<46.7	ug/kg dry	
Fluoranthene	206-44-0	46.7	155	ug/kg dry	
Pyrene	129-00-0	46.7	144	ug/kg dry	
Butyl benzyl phthalate	85-68-7	46.7	<46.7	ug/kg dry	
Benzo(a)anthracene	56-55-3	46.7	111	ug/kg dry	
Chrysene	218-01-9	46.7	112	ug/kg dry	
3,3'-Dichlorobenzidene	91-94-1	46.7	<46.7	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	46.7	72.5	ug/kg dry	
Di-n-octyl phthalate	117-84-0	46.7	<46.7	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	46.7	239	ug/kg dry	
Benzo(k)fluoranthene	207-08-9	46.7	81.0	ug/kg dry	
Benzo(a)pyrene	50-32-8	46.7	214	ug/kg dry	

Handwritten notes:
 100k/100k
 1k/1k
 1k/1k
 1k-1k
 800/1k
 1k-1k



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-03
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	46.7	372	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	46.7	67.8	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	46.7	503	ug/kg dry	
2-Pentanone, 4-hydroxy-	004161-60-8	NA	333	ug/kg dry	
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	24200	ug/kg dry	

Date Prepared: 01/17/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/21/2013

Analytical Method: EPA 8270 D



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-03
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	5.84	<5.84	ug/kg dry	
gamma-BHC	58-89-9	5.84	<5.84	ug/kg dry	
beta-BHC	319-85-7	5.84	<5.84	ug/kg dry	
delta-BHC	319-86-8	5.84	<5.84	ug/kg dry	
Heptachlor	76-44-8	5.84	<5.84	ug/kg dry	
Aldrin	309-00-2	5.84	<5.84	ug/kg dry	
Heptachlor Epoxide	1024-57-3	5.84	<5.84	ug/kg dry	
trans-Chlordane	5103-74-2	5.84	<5.84	ug/kg dry	
cis-Chlordane	5103-71-9	5.84	<5.84	ug/kg dry	
4,4'-DDE	72-55-9	5.84	6.57	ug/kg dry	3.3/1700
Endosulfan I	959-98-8	5.84	<5.84	ug/kg dry	
Dieldrin	60-57-1	5.84	<5.84	ug/kg dry	
Endrin	72-20-8	5.84	<5.84	ug/kg dry	
4,4'-DDD	72-54-8	5.84	<5.84	ug/kg dry	
Endosulfan II	33213-65-9	5.84	<5.84	ug/kg dry	
4,4'-DDT	50-29-3	5.84	<5.84	ug/kg dry	
Endrin Aldehyde	7421-93-4	5.84	<5.84	ug/kg dry	
Methoxychlor	72-43-5	5.84	<5.84	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.84	<5.84	ug/kg dry	
Endrin Ketone	53494-70-5	5.84	<5.84	ug/kg dry	
Toxaphene	8001-35-2	117	<117	ug/kg dry	
Chlordane	12789-03-6	17.5	<17.5	ug/kg dry	

Date Prepared: 01/18/2013

Date Analyzed: 01/24/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8081B



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 13:00	Sample ID: GP2/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-03
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	58.4	<58.4	ug/kg dry	
Aroclor-1260	11096-82-5	58.4	<58.4	ug/kg dry	
Aroclor-1221	11104-28-2	58.4	<58.4	ug/kg dry	
Aroclor-1232	11141-16-5	58.4	<58.4	ug/kg dry	
Aroclor-1242	53469-21-9	58.4	<58.4	ug/kg dry	
Aroclor-1248	12672-29-6	58.4	<58.4	ug/kg dry	
Aroclor-1254	11097-69-1	58.4	<58.4	ug/kg dry	
Aroclor-1262	37324-23-5	58.4	<58.4	ug/kg dry	
Aroclor-1268	11100-14-4	58.4	<58.4	ug/kg dry	

Date Prepared: 01/18/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/18/2013

Analytical Method: EPA 8082 A



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Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/21/2013	EPA 6010 C	164	6210	mg/kg dry	3.E ✓
Antimony	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	✓
Arsenic	01/21/2013	EPA 6010 C	1.00	2.28	mg/kg dry	13/16
Barium	01/21/2013	EPA 6010 C	0.99	150	mg/kg dry	360/350
Beryllium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	✓
Cadmium	01/21/2013	EPA 6010 C	1.00	<1.00	mg/kg dry	✓
Calcium	01/21/2013	EPA 6010 C	819	37500	mg/kg dry	3.E ✓
Chromium	01/21/2013	EPA 6010 C	1.65	10.3	mg/kg dry	30/36
Cobalt	01/21/2013	EPA 6010 C	1.65	3.29	mg/kg dry	✓
Copper	01/21/2013	EPA 6010 C	1.65	34.9	mg/kg dry	110/270
Iron	01/21/2013	EPA 6010 C	164	9830	mg/kg dry	3.E ✓
Lead	01/21/2013	EPA 6010 C	8.19	451	mg/kg dry	3.E 63/400
Magnesium	01/21/2013	EPA 6010 C	8.19	8160	mg/kg dry	3.E ✓
Manganese	01/21/2013	EPA 6010 C	41.0	762	mg/kg dry	3.E ✓
Nickel	01/21/2013	EPA 6010 C	1.65	10.6	mg/kg dry	20/130
Potassium	01/21/2013	EPA 6010 C	8.19	969	mg/kg dry	3.E ✓
Selenium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	✓
Silver	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	✓
Sodium	01/21/2013	EPA 6010 C	8.19	635	mg/kg dry	✓
Thallium	01/21/2013	EPA 6010 C	1.65	2.02	mg/kg dry	✓
Vanadium	01/21/2013	EPA 6010 C	1.65	10.6	mg/kg dry	✓
Zinc	01/21/2013	EPA 6010 C	8.19	452	mg/kg dry	3.E 109/220

Date Prepared: 01/18/2013

Preparation Method: EPA 3050B

Date Analyzed: 01/21/2013

Analytical Method: EPA 6010 C

Mercury	01/23/2013	EPA 7471 B	0.02	0.13	mg/kg dry	0.13
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Date Prepared: 01/18/2013

Preparation Method: EPA 7471 B

Date Analyzed: 01/23/2013

Analytical Method: EPA 7471 B

Cyanide	01/22/2013	EPA 9014	0.12	<0.12	mg/kg dry	✓
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Date Prepared: 01/18/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/22/2013

Analytical Method: EPA 9014



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 13:30	Sample ID: GP2/S-2
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-04
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.76	<5.76	ug/kg dry	
Chloromethane	74-87-3	5.76	<5.76	ug/kg dry	
Vinyl chloride	75-01-4	5.76	<5.76	ug/kg dry	
Bromomethane	74-83-9	5.76	<5.76	ug/kg dry	
Chloroethane	75-00-3	5.76	<5.76	ug/kg dry	
Trichlorofluoromethane	75-69-4	5.76	<5.76	ug/kg dry	
Acetone	67-64-1	11.5	<11.5	ug/kg dry	
1,1-Dichloroethylene	75-35-4	5.76	<5.76	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.76	<5.76	ug/kg dry	
Methyl Acetate	79-20-9	5.76	<5.76	ug/kg dry	
Methylene Chloride	75-09-2	5.76	<5.76	ug/kg dry	
Carbon disulfide	75-15-0	5.76	<5.76	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	5.76	<5.76	ug/kg dry	
trans-1,2-Dichloroethylene	156-60-5	5.76	<5.76	ug/kg dry	
1,1-Dichloroethane	75-34-3	5.76	<5.76	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	11.5	<11.5	ug/kg dry	
cis-1,2-Dichloroethylene	156-59-2	5.76	<5.76	ug/kg dry	
Bromochloromethane	74-97-5	5.76	<5.76	ug/kg dry	
Chloroform	67-66-3	5.76	<5.76	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	5.76	<5.76	ug/kg dry	
1,2-Dichloroethane	107-06-2	5.76	<5.76	ug/kg dry	
Carbon Tetrachloride	56-23-5	5.76	<5.76	ug/kg dry	
Benzene	71-43-2	5.76	<5.76	ug/kg dry	
Trichloroethylene	79-01-6	5.76	<5.76	ug/kg dry	
1,2-Dichloropropane	78-87-5	5.76	<5.76	ug/kg dry	
1,4-Dioxane	123-91-1	57.6	<57.6	ug/kg dry	
Bromodichloromethane	75-27-4	5.76	<5.76	ug/kg dry	
Methyl Isobutyl Ketone	108-10-1	11.5	<11.5	ug/kg dry	
cis-1,3-Dichloropropylene	10061-01-5	5.76	<5.76	ug/kg dry	
Toluene	108-88-3	5.76	<5.76	ug/kg dry	
trans-1,3-Dichloropropylene	10061-02-6	5.76	<5.76	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	5.76	<5.76	ug/kg dry	



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-04
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Ketone (2-Hexanone)	591-78-6	5.76	<5.76	ug/kg dry	
Dibromochloromethane	124-48-1	5.76	<5.76	ug/kg dry	
Tetrachloroethylene	127-18-4	5.76	<5.76	ug/kg dry	
1,2-Dibromoethane	106-93-4	5.76	<5.76	ug/kg dry	
Chlorobenzene	108-90-7	5.76	<5.76	ug/kg dry	
Ethylbenzene	100-41-4	5.76	<5.76	ug/kg dry	
m,p-Xylenes	108-38-3/106-42-3	11.5	<11.5	ug/kg dry	
Styrene	100-42-5	5.76	<5.76	ug/kg dry	
o-Xylene	95-47-6	5.76	<5.76	ug/kg dry	
Bromoform	75-25-2	5.76	<5.76	ug/kg dry	
1,1,2,2-Tetrachloroethane	79-34-5	5.76	<5.76	ug/kg dry	
Isopropylbenzene (Cumene)	98-82-8	5.76	<5.76	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	5.76	<5.76	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	5.76	<5.76	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	5.76	<5.76	ug/kg dry	
1,2-Dibromo-3-chloropropane	96-12-8	5.76	<5.76	ug/kg dry	
1,2,4-Trichlorobenzene	120-82-1	5.76	<5.76	ug/kg dry	
1,2,3-Trichlorobenzene	87-61-6	5.76	<5.76	ug/kg dry	
1-Iodo-2-methylundecane	073105-67-6	NA	14.6	ug/kg dry	5.K
3-Eicosene, (E)-	074685-33-9	NA	4.97	ug/kg dry	5.K
Bicyclo[2.2.1]heptane, 2-methyl-, exo-	000872-78-6	NA	5.60	ug/kg dry	5.K
Decane	000124-18-5	NA	38.6	ug/kg dry	5.K
Decane, 3-methyl-	013151-34-3	NA	7.56	ug/kg dry	5.K
Decane, 4-methyl-	002847-72-5	NA	12.9	ug/kg dry	5.K
Decane, 5-methyl-	013151-35-4	NA	6.63	ug/kg dry	5.K
Hexane, 2,4-dimethyl-	000589-43-5	NA	8.06	ug/kg dry	5.K
Nonane, 3-methyl-	005911-04-6	NA	12.1	ug/kg dry	5.K
Octane, 2,6-dimethyl-	002051-30-1	NA	4.52	ug/kg dry	5.K
Octane, 2-methyl-	003221-61-2	NA	4.74	ug/kg dry	5.K
trans-Decalin, 2-methyl-	1000152	NA	7.24	ug/kg dry	5.K
Undecane	001120-21-4	NA	44.9	ug/kg dry	5.K



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-04
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
unknown hydrocarbon (01)	NA	NA	7.33	ug/kg dry	5.K
unknown hydrocarbon (02)	NA	NA	4.72	ug/kg dry	5.K
unknown hydrocarbon (03)	NA	NA	4.70	ug/kg dry	5.K

Date Prepared: 01/18/2013

Date Analyzed: 01/18/2013

Preparation Method: EPA 5030C Modified

Analytical Method: EPA 8260 C



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Date (Time) Collected: 01/12/2013 13:30	Sample ID: GP2/S-2
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-04
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	761	<761	ug/kg dry	3.A
Acetophenone	989-86-2	1040	<1040	ug/kg dry	3.A
Phenol	108-95-2	461	<461	ug/kg dry	3.A
2-Chlorophenol	95-57-8	461	<461	ug/kg dry	3.A
Caprolactam	105-60-2	1730	<1730	ug/kg dry	3.A
Bis(2-Chloroethyl)ether	111-44-4	461	<461	ug/kg dry	3.A
1,1-Biphenyl	92-52-4	1380	<1380	ug/kg dry	3.A
1,2-Diphenylhydrazine	122-66-7	761	<761	ug/kg dry	3.A
2-Methylphenol	95-48-7	461	<461	ug/kg dry	3.A
Atrazine	1912-24-9	761	<761	ug/kg dry	3.A
Bis(2-chloroisopropyl)ether	39638-32-9	461	<461	ug/kg dry	3.A
Hexachloroethane	67-72-1	461	<461	ug/kg dry	3.A
3/4-Methylphenol	108-39-4/106-44-5	461	<461	ug/kg dry	3.A
N-Nitroso-di-n-propylamine	621-64-7	461	<461	ug/kg dry	3.A
Nitrobenzene	98-95-3	461	<461	ug/kg dry	3.A
Isophorone	78-59-1	461	<461	ug/kg dry	3.A
2-Nitrophenol	88-75-5	461	<461	ug/kg dry	3.A
2,4-Dimethylphenol	105-67-9	461	<461	ug/kg dry	3.A
bis(2-Chloroethoxy)methane	111-91-1	461	<461	ug/kg dry	3.A
2,4-Dichlorophenol	120-83-2	461	<461	ug/kg dry	3.A
Naphthalene	91-20-3	461	<461	ug/kg dry	3.A
4-Chloroaniline	106-47-8	461	<461	ug/kg dry	3.A
Hexachlorobutadiene	87-68-3	461	<461	ug/kg dry	3.A
4-Chloro-3-methylphenol	59-50-7	461	<461	ug/kg dry	3.A
2-Methylnaphthalene	91-57-6	461	<461	ug/kg dry	3.A
Hexachlorocyclopentadiene	77-47-4	461	<461	ug/kg dry	3.A
2,4,6-Trichlorophenol	88-06-2	461	<461	ug/kg dry	3.A
2,4,5-Trichlorophenol	95-95-4	461	<461	ug/kg dry	3.A
2-Chloronaphthalene	91-58-7	461	<461	ug/kg dry	3.A
2-Nitroaniline	88-74-4	461	<461	ug/kg dry	3.A
Dimethyl phthalate	131-11-3	461	<461	ug/kg dry	3.A
Acenaphthylene	208-96-8	461	<461	ug/kg dry	3.A



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Matrix: Soil	ELAP: #11693

Semivolatle Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	461	<461	ug/kg dry	3.A
3-Nitroaniline	99-09-2	461	<461	ug/kg dry	3.A
Acenaphthene	83-32-9	461	<461	ug/kg dry	3.A
2,4-Dinitrophenol	51-28-5	1560	<1560	ug/kg dry	3.A
Dibenzofuran	132-64-9	461	<461	ug/kg dry	3.A
4-Nitrophenol	100-02-7	1560	<1560	ug/kg dry	3.A
2,4-Dinitrotoluene	121-14-2	461	<461	ug/kg dry	3.A
Fluorene	86-73-7	461	<461	ug/kg dry	3.A
Diethyl phthalate	84-66-2	461	<461	ug/kg dry	3.A
4-Chlorophenyl phenyl ether	7005-72-3	461	<461	ug/kg dry	3.A
4-Nitroaniline	100-01-6	461	<461	ug/kg dry	3.A
4,6-Dinitro-2-methylphenol	534-52-1	1560	<1560	ug/kg dry	3.A
N-Nitrosodiphenylamine	86-30-6	461	<461	ug/kg dry	3.A
4-Bromophenyl phenyl ether	101-55-3	461	<461	ug/kg dry	3.A
Hexachlorobenzene	118-74-1	461	<461	ug/kg dry	3.A
Pentachlorophenol	87-86-5	461	<461	ug/kg dry	3.A
Phenanthrene	85-01-8	461	<461	ug/kg dry	3.A
Anthracene	120-12-7	461	<461	ug/kg dry	3.A
Carbazole	86-74-8	461	<461	ug/kg dry	3.A
Di-n-butyl phthalate	84-74-2	461	<461	ug/kg dry	3.A
Fluoranthene	206-44-0	461	<461	ug/kg dry	3.A
Pyrene	129-00-0	461	<461	ug/kg dry	3.A
Butyl benzyl phthalate	85-68-7	461	<461	ug/kg dry	3.A
Benzo(a)anthracene	56-55-3	461	<461	ug/kg dry	3.A
Chrysene	218-01-9	461	<461	ug/kg dry	3.A
3,3'-Dichlorobenzidine	91-94-1	461	<461	ug/kg dry	3.A
Bis(2-Ethylhexyl)phthalate	117-81-7	461	<461	ug/kg dry	3.A
Di-n-octyl phthalate	117-84-0	461	<461	ug/kg dry	3.A
Benzo(b)fluoranthene	205-99-2	461	<461	ug/kg dry	3.A
Benzo(k)fluoranthene	207-08-9	461	<461	ug/kg dry	3.A
Benzo(a)pyrene	50-32-8	461	<461	ug/kg dry	3.A



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-04
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	461	<461	ug/kg dry	3.A
Dibenzo(a,h)anthracene	53-70-3	461	<461	ug/kg dry	3.A
Benzo(g,h,i)perylene	191-24-2	461	<461	ug/kg dry	3.A

Date Prepared: 01/17/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/21/2013

Analytical Method: EPA 8270 D



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-04
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	5.76	<5.76	ug/kg dry	
gamma-BHC	58-89-9	5.76	<5.76	ug/kg dry	
beta-BHC	319-85-7	5.76	<5.76	ug/kg dry	
delta-BHC	319-86-8	5.76	<5.76	ug/kg dry	
Heptachlor	76-44-8	5.76	<5.76	ug/kg dry	
Aldrin	309-00-2	5.76	<5.76	ug/kg dry	
Heptachlor Epoxide	1024-57-3	5.76	<5.76	ug/kg dry	
trans-Chlordane	5103-74-2	5.76	<5.76	ug/kg dry	
cis-Chlordane	5103-71-9	5.76	<5.76	ug/kg dry	
4,4'-DDE	72-55-9	5.76	<5.76	ug/kg dry	
Endosulfan I	959-98-8	5.76	<5.76	ug/kg dry	
Dieldrin	60-57-1	5.76	<5.76	ug/kg dry	
Endrin	72-20-8	5.76	<5.76	ug/kg dry	
4,4'-DDD	72-54-8	5.76	<5.76	ug/kg dry	
Endosulfan II	33213-65-9	5.76	<5.76	ug/kg dry	
4,4'-DDT	50-29-3	5.76	<5.76	ug/kg dry	
Endrin Aldehyde	7421-93-4	5.76	<5.76	ug/kg dry	
Methoxychlor	72-43-5	5.76	<5.76	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.76	<5.76	ug/kg dry	
Endrin Ketone	53494-70-5	5.76	<5.76	ug/kg dry	
Toxaphene	8001-35-2	115	<115	ug/kg dry	
Chlordane	12789-03-6	17.3	<17.3	ug/kg dry	

Date Prepared: 01/18/2013

Date Analyzed: 01/24/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8081B



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 13:30	Sample ID: GP2/S-2
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-04
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	57.6	<57.6	ug/kg dry	
Aroclor-1260	11096-82-5	57.6	<57.6	ug/kg dry	
Aroclor-1221	11104-28-2	57.6	<57.6	ug/kg dry	
Aroclor-1232	11141-16-5	57.6	<57.6	ug/kg dry	
Aroclor-1242	53469-21-9	57.6	<57.6	ug/kg dry	
Aroclor-1248	12672-29-6	57.6	<57.6	ug/kg dry	
Aroclor-1254	11097-69-1	57.6	<57.6	ug/kg dry	
Aroclor-1262	37324-23-5	57.6	<57.6	ug/kg dry	
Aroclor-1268	11100-14-4	57.6	<57.6	ug/kg dry	

Date Prepared: 01/18/2013

Date Analyzed: 01/18/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8082 A



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Date (Time) Collected: 01/12/2013 13:30	Sample ID: GP2/S-2
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-04
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/21/2013	EPA 6010 C	161	7160	mg/kg dry	3.E ✓
Antimony	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	✓
Arsenic	01/21/2013	EPA 6010 C	1.00	2.01	mg/kg dry	1.7/1.6 2.50/2.50
Barium	01/21/2013	EPA 6010 C	0.97	99.9	mg/kg dry	✓
Beryllium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	✓
Cadmium	01/21/2013	EPA 6010 C	1.00	<1.00	mg/kg dry	✓
Calcium	01/21/2013	EPA 6010 C	804	53900	mg/kg dry	3.E ✓
Chromium	01/21/2013	EPA 6010 C	1.65	11.4	mg/kg dry	2.0/3.6
Cobalt	01/21/2013	EPA 6010 C	1.65	3.61	mg/kg dry	✓
Copper	01/21/2013	EPA 6010 C	1.65	10.8	mg/kg dry	5.0/2.0
Iron	01/21/2013	EPA 6010 C	161	10300	mg/kg dry	3.E ✓
Lead	01/21/2013	EPA 6010 C	1.65	78.9	mg/kg dry	6.3/4.0
Magnesium	01/21/2013	EPA 6010 C	161	19300	mg/kg dry	3.E ✓
Manganese	01/21/2013	EPA 6010 C	80.4	645	mg/kg dry	3.E ✓
Nickel	01/21/2013	EPA 6010 C	1.65	10.6	mg/kg dry	3.0/1.30
Potassium	01/21/2013	EPA 6010 C	16.1	1490	mg/kg dry	3.E ✓
Selenium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	✓
Silver	01/21/2013	EPA 6010 C	8.04	403	mg/kg dry	✓
Sodium	01/21/2013	EPA 6010 C	1.65	3.30	mg/kg dry	✓
Thallium	01/21/2013	EPA 6010 C	1.65	16.0	mg/kg dry	✓
Vanadium	01/21/2013	EPA 6010 C	1.65	16.0	mg/kg dry	✓
Zinc	01/21/2013	EPA 6010 C	1.65	79.1	mg/kg dry	10.0/2.200

Date Prepared: 01/18/2013

Preparation Method: EPA 3050B

Date Analyzed: 01/21/2013

Analytical Method: EPA 6010 C

Mercury	01/23/2013	EPA 7471 B	0.02	0.26	mg/kg dry	0.18/0.73
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Date Prepared: 01/18/2013

Preparation Method: EPA 7471 B

Date Analyzed: 01/23/2013

Analytical Method: EPA 7471 B

Cyanide	01/22/2013	EPA 9014	0.12	<0.12	mg/kg dry	
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Date Prepared: 01/18/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/22/2013

Analytical Method: EPA 9014



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/15/2013 10:00	Sample ID: GP3/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-05
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.59	<5.59	ug/kg dry	
Chloromethane	74-87-3	5.59	<5.59	ug/kg dry	
Vinyl chloride	75-01-4	5.59	<5.59	ug/kg dry	
Bromomethane	74-83-9	5.59	<5.59	ug/kg dry	
Chloroethane	75-00-3	5.59	<5.59	ug/kg dry	
Trichlorofluoromethane	75-69-4	5.59	<5.59	ug/kg dry	
Acetone	67-64-1	11.2	<11.2	ug/kg dry	
1,1-Dichloroethylene	75-35-4	5.59	<5.59	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.59	<5.59	ug/kg dry	
Methyl Acetate	79-20-9	5.59	<5.59	ug/kg dry	
Methylene Chloride	75-09-2	5.59	<5.59	ug/kg dry	
Carbon disulfide	75-15-0	5.59	<5.59	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	5.59	<5.59	ug/kg dry	
trans-1,2-Dichloroethylene	156-60-5	5.59	<5.59	ug/kg dry	
1,1-Dichloroethane	75-34-3	5.59	<5.59	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	11.2	<11.2	ug/kg dry	
cis-1,2-Dichloroethylene	156-59-2	5.59	<5.59	ug/kg dry	
Bromochloromethane	74-97-5	5.59	<5.59	ug/kg dry	
Chloroform	67-66-3	5.59	<5.59	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	5.59	<5.59	ug/kg dry	
1,2-Dichloroethane	107-06-2	5.59	<5.59	ug/kg dry	
Carbon Tetrachloride	56-23-5	5.59	<5.59	ug/kg dry	
Benzene	71-43-2	5.59	<5.59	ug/kg dry	
Trichloroethylene	79-01-6	5.59	<5.59	ug/kg dry	
1,2-Dichloropropane	78-87-5	5.59	<5.59	ug/kg dry	
1,4-Dioxane	123-91-1	55.9	<55.9	ug/kg dry	
Bromodichloromethane	75-27-4	5.59	<5.59	ug/kg dry	
Methyl Isobutyl Ketone	108-10-1	11.2	<11.2	ug/kg dry	
cis-1,3-Dichloropropylene	10061-01-5	5.59	<5.59	ug/kg dry	
Toluene	108-88-3	5.59	<5.59	ug/kg dry	
trans-1,3-Dichloropropylene	10061-02-6	5.59	<5.59	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	5.59	<5.59	ug/kg dry	



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Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Ketone (2-Hexanone)	591-78-6	5.59	<5.59	ug/kg dry	
Dibromochloromethane	124-48-1	5.59	<5.59	ug/kg dry	
Tetrachloroethylene	127-18-4	5.59	<5.59	ug/kg dry	
1,2-Dibromoethane	106-93-4	5.59	<5.59	ug/kg dry	
Chlorobenzene	108-90-7	28.0	<28.0	ug/kg dry	3.A
Ethylbenzene	100-41-4	28.0	<28.0	ug/kg dry	3.A
m,p-Xylenes	108-38-3/106-42-3	55.9	<55.9	ug/kg dry	3.A
Styrene	100-42-5	28.0	<28.0	ug/kg dry	3.A
o-Xylene	95-47-6	28.0	<28.0	ug/kg dry	3.A
Bromoform	75-25-2	28.0	<28.0	ug/kg dry	3.A
1,1,2,2-Tetrachloroethane	79-34-5	28.0	<28.0	ug/kg dry	3.A
Isopropylbenzene (Cumene)	98-82-8	28.0	<28.0	ug/kg dry	3.A
1,3-Dichlorobenzene	541-73-1	55.9	<55.9	ug/kg dry	3.A
1,4-Dichlorobenzene	106-46-7	55.9	<55.9	ug/kg dry	3.A
1,2-Dichlorobenzene	95-50-1	55.9	<55.9	ug/kg dry	3.A
1,2-Dibromo-3-chloropropane	96-12-8	55.9	<55.9	ug/kg dry	3.A
1,2,4-Trichlorobenzene	120-82-1	55.9	<55.9	ug/kg dry	3.A
1,2,3-Trichlorobenzene	87-61-6	55.9	<55.9	ug/kg dry	3.A

Date Prepared: 01/18/2013

Date Analyzed: 01/21/2013

Preparation Method: EPA 5030C Modified

Analytical Method: EPA 8260 C



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-05
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	739	<739	ug/kg dry	3.A
Acetophenone	989-86-2	1010	<1010	ug/kg dry	3.A
Phenol	108-95-2	448	<448	ug/kg dry	3.A
2-Chlorophenol	95-57-8	448	<448	ug/kg dry	3.A
Caprolactam	105-60-2	1680	<1680	ug/kg dry	3.A
Bis(2-Chloroethyl)ether	111-44-4	448	<448	ug/kg dry	3.A
1,1-Biphenyl	92-52-4	1340	<1340	ug/kg dry	3.A
1,2-Diphenylhydrazine	122-66-7	739	<739	ug/kg dry	3.A
2-Methylphenol	95-48-7	448	<448	ug/kg dry	3.A
Atrazine	1912-24-9	739	<739	ug/kg dry	3.A
Bis(2-chloroisopropyl)ether	39638-32-9	448	<448	ug/kg dry	3.A
Hexachloroethane	67-72-1	448	<448	ug/kg dry	3.A
3/4-Methylphenol	108-39-4/106-44-5	448	<448	ug/kg dry	3.A
N-Nitroso-di-n-propylamine	621-64-7	448	<448	ug/kg dry	3.A
Nitrobenzene	98-95-3	448	<448	ug/kg dry	3.A
Isophorone	78-59-1	448	<448	ug/kg dry	3.A
2-Nitrophenol	88-75-5	448	<448	ug/kg dry	3.A
2,4-Dimethylphenol	105-67-9	448	<448	ug/kg dry	3.A
bis(2-Chloroethoxy)methane	111-91-1	448	<448	ug/kg dry	3.A
2,4-Dichlorophenol	120-83-2	448	<448	ug/kg dry	3.A
Naphthalene	91-20-3	448	<448	ug/kg dry	3.A
4-Chloroaniline	106-47-8	448	<448	ug/kg dry	3.A
Hexachlorobutadiene	87-68-3	448	<448	ug/kg dry	3.A
4-Chloro-3-methylphenol	59-50-7	448	<448	ug/kg dry	3.A
2-Methylnaphthalene	91-57-6	448	<448	ug/kg dry	3.A
Hexachlorocyclopentadiene	77-47-4	448	<448	ug/kg dry	3.A
2,4,6-Trichlorophenol	88-06-2	448	<448	ug/kg dry	3.A
2,4,5-Trichlorophenol	95-95-4	448	<448	ug/kg dry	3.A
2-Chloronaphthalene	91-58-7	448	<448	ug/kg dry	3.A
2-Nitroaniline	88-74-4	448	<448	ug/kg dry	3.A
Dimethyl phthalate	131-11-3	448	<448	ug/kg dry	3.A
Acenaphthylene	208-96-8	448	<448	ug/kg dry	3.A



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-05
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	448	<448	ug/kg dry	3.A
3-Nitroaniline	99-09-2	448	<448	ug/kg dry	3.A
Acenaphthene	83-32-9	448	<448	ug/kg dry	3.A
2,4-Dinitrophenol	51-28-5	1510	<1510	ug/kg dry	3.A
Dibenzofuran	132-64-9	448	<448	ug/kg dry	3.A
4-Nitrophenol	100-02-7	1510	<1510	ug/kg dry	3.A
2,4-Dinitrotoluene	121-14-2	448	<448	ug/kg dry	3.A
Fluorene	86-73-7	448	<448	ug/kg dry	3.A
Diethyl phthalate	84-66-2	448	<448	ug/kg dry	3.A
4-Chlorophenyl phenyl ether	7005-72-3	448	<448	ug/kg dry	3.A
4-Nitroaniline	100-01-6	448	<448	ug/kg dry	3.A
4,6-Dinitro-2-methylphenol	534-52-1	1510	<1510	ug/kg dry	3.A
N-Nitrosodiphenylamine	86-30-6	448	<448	ug/kg dry	3.A
4-Bromophenyl phenyl ether	101-55-3	448	<448	ug/kg dry	3.A
Hexachlorobenzene	118-74-1	448	<448	ug/kg dry	3.A
Pentachlorophenol	87-86-5	448	<448	ug/kg dry	3.A
Phenanthrene	85-01-8	448	1010	ug/kg dry	3.E
Anthracene	120-12-7	448	<448	ug/kg dry	3.A
Carbazole	86-74-8	448	<448	ug/kg dry	3.A
Di-n-butyl phthalate	84-74-2	448	<448	ug/kg dry	3.A
Fluoranthene	206-44-0	448	2280	ug/kg dry	3.E
Pyrene	129-00-0	448	1920	ug/kg dry	3.E
Butyl benzyl phthalate	85-68-7	448	<448	ug/kg dry	3.A
Benzo(a)anthracene	56-55-3	448	1130	ug/kg dry	
Chrysene	218-01-9	448	1340	ug/kg dry	3.E
3,3'-Dichlorobenzidine	91-94-1	448	<448	ug/kg dry	3.A
Bis(2-Ethylhexyl)phthalate	117-81-7	448	<448	ug/kg dry	3.A
Di-n-octyl phthalate	117-84-0	448	<448	ug/kg dry	3.A
Benzo(b)fluoranthene	205-99-2	448	1720	ug/kg dry	3.E
Benzo(k)fluoranthene	207-08-9	448	<448	ug/kg dry	3.A
Benzo(a)pyrene	50-32-8	448	1300	ug/kg dry	3.E

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1K/1K

1K/1K

1K/1K



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-05
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	448	955	ug/kg dry	3.E
Dibenzo(a,h)anthracene	53-70-3	448	448	ug/kg dry	3.A
Benzo(g,h,i)perylene	191-24-2	448	888	ug/kg dry	3.E
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	62800	ug/kg dry	

500/500

Date Prepared: 01/17/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/21/2013

Analytical Method: EPA 8270 D



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/15/2013 10:00	Sample ID: GP3/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-05
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	5.59	<5.59	ug/kg dry	
gamma-BHC	58-89-9	5.59	<5.59	ug/kg dry	
beta-BHC	319-85-7	5.59	<5.59	ug/kg dry	
delta-BHC	319-86-8	5.59	<5.59	ug/kg dry	
Heptachlor	76-44-8	5.59	<5.59	ug/kg dry	
Aldrin	309-00-2	5.59	<5.59	ug/kg dry	
Heptachlor Epoxide	1024-57-3	5.59	<5.59	ug/kg dry	
trans-Chlordane	5103-74-2	5.59	6.06	ug/kg dry	94/910
cis-Chlordane	5103-71-9	5.59	<5.59	ug/kg dry	
4,4'-DDE	72-55-9	5.59	<5.59	ug/kg dry	
Endosulfan I	959-98-8	5.59	<5.59	ug/kg dry	
Dieldrin	60-57-1	5.59	<5.59	ug/kg dry	
Endrin	72-20-8	5.59	<5.59	ug/kg dry	
4,4'-DDD	72-54-8	5.59	<5.59	ug/kg dry	
Endosulfan II	33213-65-9	5.59	<5.59	ug/kg dry	
4,4'-DDT	50-29-3	5.59	30.0	ug/kg dry	93/1700
Endrin Aldehyde	7421-93-4	5.59	<5.59	ug/kg dry	
Methoxychlor	72-43-5	5.59	<5.59	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.59	<5.59	ug/kg dry	
Endrin Ketone	53494-70-5	5.59	<5.59	ug/kg dry	
Toxaphene	8001-35-2	112	<112	ug/kg dry	
Chlordane	12789-03-6	16.8	<16.8	ug/kg dry	

Date Prepared: 01/18/2013
 Date Analyzed: 01/24/2013

Preparation Method: EPA 3545 A
 Analytical Method: EPA 8081B



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-05
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	55.9	<55.9	ug/kg dry	
Aroclor-1260	11096-82-5	55.9	<55.9	ug/kg dry	
Aroclor-1221	11104-28-2	55.9	<55.9	ug/kg dry	
Aroclor-1232	11141-16-5	55.9	<55.9	ug/kg dry	
Aroclor-1242	53469-21-9	55.9	<55.9	ug/kg dry	
Aroclor-1248	12672-29-6	55.9	<55.9	ug/kg dry	
Aroclor-1254	11097-69-1	55.9	<55.9	ug/kg dry	
Aroclor-1262	37324-23-5	55.9	<55.9	ug/kg dry	
Aroclor-1268	11100-14-4	55.9	<55.9	ug/kg dry	

Date Prepared: 01/18/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/18/2013

Analytical Method: EPA 8082 A



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Date (Time) Collected: 01/15/2013 10:00	Sample ID: GP3/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-05
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/21/2013	EPA 6010 C	145	6630	mg/kg dry	3.E
Antimony	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Arsenic	01/21/2013	EPA 6010 C	1.00	5.89	mg/kg dry	13/16
Barium	01/21/2013	EPA 6010 C	1.75	182	mg/kg dry	3.E 350/350
Beryllium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Cadmium	01/21/2013	EPA 6010 C	1.00	<1.00	mg/kg dry	
Calcium	01/21/2013	EPA 6010 C	723	16900	mg/kg dry	3.E
Chromium	01/21/2013	EPA 6010 C	1.65	28.7	mg/kg dry	30/36
Cobalt	01/21/2013	EPA 6010 C	1.65	8.88	mg/kg dry	
Copper	01/21/2013	EPA 6010 C	1.65	147	mg/kg dry	50/27
Iron	01/21/2013	EPA 6010 C	145	17100	mg/kg dry	3.E
Lead	01/21/2013	EPA 6010 C	2.89	311	mg/kg dry	3.E 63/400
Magnesium	01/21/2013	EPA 6010 C	14.5	4970	mg/kg dry	3.E
Manganese	01/21/2013	EPA 6010 C	14.5	227	mg/kg dry	3.E
Nickel	01/21/2013	EPA 6010 C	1.65	21.2	mg/kg dry	30/130
Potassium	01/21/2013	EPA 6010 C	2.89	867	mg/kg dry	3.E
Selenium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Silver	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Sodium	01/21/2013	EPA 6010 C	7.23	504	mg/kg dry	
Thallium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Vanadium	01/21/2013	EPA 6010 C	1.65	22.9	mg/kg dry	
Zinc	01/21/2013	EPA 6010 C	14.5	1350	mg/kg dry	3.E 109/2200

Date Prepared: 01/18/2013

Preparation Method: EPA 3050B

Date Analyzed: 01/21/2013

Analytical Method: EPA 6010 C

Mercury	01/23/2013	EPA 7471 B	0.02	0.18	mg/kg dry	0.08/0.73
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Date Prepared: 01/18/2013

Preparation Method: EPA 7471 B

Date Analyzed: 01/23/2013

Analytical Method: EPA 7471 B

Cyanide	01/22/2013	EPA 9014	0.11	0.24	mg/kg dry	
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Date Prepared: 01/18/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/22/2013

Analytical Method: EPA 9014



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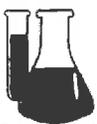
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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/15/2013 10:30	Sample ID: GP3/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.52	<5.52	ug/kg dry	
Chloromethane	74-87-3	5.52	<5.52	ug/kg dry	
Vinyl chloride	75-01-4	5.52	<5.52	ug/kg dry	
Bromomethane	74-83-9	5.52	<5.52	ug/kg dry	
Chloroethane	75-00-3	5.52	<5.52	ug/kg dry	
Trichlorofluoromethane	75-69-4	5.52	<5.52	ug/kg dry	
Acetone	67-64-1	11.0	<11.0	ug/kg dry	
1,1-Dichloroethylene	75-35-4	5.52	<5.52	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.52	<5.52	ug/kg dry	
Methyl Acetate	79-20-9	5.52	<5.52	ug/kg dry	
Methylene Chloride	75-09-2	5.52	<5.52	ug/kg dry	
Carbon disulfide	75-15-0	5.52	<5.52	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	5.52	<5.52	ug/kg dry	
trans-1,2-Dichloroethylene	156-60-5	5.52	<5.52	ug/kg dry	
1,1-Dichloroethane	75-34-3	5.52	<5.52	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	11.0	<11.0	ug/kg dry	
cis-1,2-Dichloroethylene	156-59-2	5.52	<5.52	ug/kg dry	
Bromochloromethane	74-97-5	5.52	<5.52	ug/kg dry	
Chloroform	67-66-3	5.52	<5.52	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	5.52	<5.52	ug/kg dry	
1,2-Dichloroethane	107-06-2	5.52	<5.52	ug/kg dry	
Carbon Tetrachloride	56-23-5	5.52	<5.52	ug/kg dry	
Benzene	71-43-2	5.52	<5.52	ug/kg dry	
Trichloroethylene	79-01-6	5.52	<5.52	ug/kg dry	
1,2-Dichloropropane	78-87-5	5.52	<5.52	ug/kg dry	
1,4-Dioxane	123-91-1	55.2	<55.2	ug/kg dry	
Bromodichloromethane	75-27-4	5.52	<5.52	ug/kg dry	
Methyl Isobutyl Ketone	108-10-1	11.0	<11.0	ug/kg dry	
cis-1,3-Dichloropropylene	10061-01-5	5.52	<5.52	ug/kg dry	
Toluene	108-88-3	5.52	<5.52	ug/kg dry	
trans-1,3-Dichloropropylene	10061-02-6	5.52	<5.52	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	5.52	<5.52	ug/kg dry	



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Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Kelone (2-Hexanone)	591-78-6	5.52	<5.52	ug/kg dry	
Dibromochloromethane	124-48-1	5.52	<5.52	ug/kg dry	
Tetrachloroethylene	127-18-4	5.52	<5.52	ug/kg dry	
1,2-Dibromoethane	106-93-4	5.52	<5.52	ug/kg dry	
Chlorobenzene	108-90-7	5.52	<5.52	ug/kg dry	
Ethylbenzene	100-41-4	5.52	<5.52	ug/kg dry	
m,p-Xylenes	108-38-3/106-42-3	11.0	<11.0	ug/kg dry	
Styrene	100-42-5	5.52	<5.52	ug/kg dry	
o-Xylene	95-47-6	5.52	<5.52	ug/kg dry	
Bromoform	75-25-2	5.52	<5.52	ug/kg dry	
1,1,2,2-Tetrachloroethane	79-34-5	5.52	<5.52	ug/kg dry	
Isopropylbenzene (Cumene)	98-82-8	5.52	<5.52	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	5.52	<5.52	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	5.52	<5.52	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	5.52	<5.52	ug/kg dry	
1,2-Dibromo-3-chloropropane	96-12-8	5.52	<5.52	ug/kg dry	
1,2,4-Trichlorobenzene	120-82-1	5.52	<5.52	ug/kg dry	
1,2,3-Trichlorobenzene	87-61-6	5.52	<5.52	ug/kg dry	

Date Prepared: 01/18/2013

Date Analyzed: 01/18/2013

Preparation Method: EPA 5030C Modified

Analytical Method: EPA 8260 C



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Date (Time) Collected: 01/15/2013 10:30	Sample ID: GP3/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	72.9	<72.9	ug/kg dry	
Acetophenone	989-86-2	99.4	<99.4	ug/kg dry	
Phenol	108-95-2	44.2	<44.2	ug/kg dry	
2-Chlorophenol	95-57-8	44.2	<44.2	ug/kg dry	
Caprolactam	105-60-2	166	<166	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	44.2	<44.2	ug/kg dry	
1,1-Biphenyl	92-52-4	133	<133	ug/kg dry	
1,2-Diphenylhydrazine	122-66-7	72.9	<72.9	ug/kg dry	
2-Methylphenol	95-48-7	44.2	<44.2	ug/kg dry	
Atrazine	1912-24-9	72.9	<72.9	ug/kg dry	
Bis(2-chloroisopropyl)ether	39638-32-9	44.2	<44.2	ug/kg dry	
Hexachloroethane	67-72-1	44.2	<44.2	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	44.2	<44.2	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	44.2	<44.2	ug/kg dry	
Nitrobenzene	98-95-3	44.2	<44.2	ug/kg dry	
Isophorone	78-59-1	44.2	<44.2	ug/kg dry	
2-Nitrophenol	88-75-5	44.2	<44.2	ug/kg dry	
2,4-Dimethylphenol	105-67-9	44.2	<44.2	ug/kg dry	
bis(2-Chloroethoxy)methane	111-91-1	44.2	<44.2	ug/kg dry	
2,4-Dichlorophenol	120-83-2	44.2	<44.2	ug/kg dry	
Naphthalene	91-20-3	44.2	<44.2	ug/kg dry	
4-Chloroaniline	106-47-8	44.2	<44.2	ug/kg dry	
Hexachlorobutadiene	87-68-3	44.2	<44.2	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	44.2	<44.2	ug/kg dry	
2-Methylnaphthalene	91-57-6	44.2	<44.2	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	44.2	<44.2	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	44.2	<44.2	ug/kg dry	
2,4,5-Trichlorophenol	95-95-4	44.2	<44.2	ug/kg dry	
2-Chloronaphthalene	91-58-7	44.2	<44.2	ug/kg dry	
2-Nitroaniline	88-74-4	44.2	<44.2	ug/kg dry	
Dimethyl phthalate	131-11-3	44.2	<44.2	ug/kg dry	
Acenaphthylene	208-96-8	44.2	<44.2	ug/kg dry	



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Date (Time) Collected: 01/15/2013 10:30	Sample ID: GP3/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	44.2	<44.2	ug/kg dry	
3-Nitroaniline	99-09-2	44.2	<44.2	ug/kg dry	
Acenaphthene	83-32-9	44.2	<44.2	ug/kg dry	
2,4-Dinitrophenol	51-28-5	149	<149	ug/kg dry	
Dibenzofuran	132-64-9	44.2	<44.2	ug/kg dry	
4-Nitrophenol	100-02-7	149	<149	ug/kg dry	
2,4-Dinitrotoluene	121-14-2	44.2	<44.2	ug/kg dry	
Fluorene	86-73-7	44.2	<44.2	ug/kg dry	
Diethyl phthalate	84-66-2	44.2	<44.2	ug/kg dry	
4-Chlorophenyl phenyl ether	7005-72-3	44.2	<44.2	ug/kg dry	
4-Nitroaniline	100-01-6	44.2	<44.2	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	149	<149	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	44.2	<44.2	ug/kg dry	
4-Bromophenyl phenyl ether	101-55-3	44.2	<44.2	ug/kg dry	
Hexachlorobenzene	118-74-1	44.2	<44.2	ug/kg dry	
Pentachlorophenol	87-86-5	44.2	<44.2	ug/kg dry	
Phenanthrene	85-01-8	44.2	111	ug/kg dry	100k/100k
Anthracene	120-12-7	44.2	<44.2	ug/kg dry	
Carbazole	86-74-8	44.2	<44.2	ug/kg dry	
Di-n-butyl phthalate	84-74-2	44.2	<44.2	ug/kg dry	
Fluoranthene	206-44-0	44.2	294	ug/kg dry	100k/100k
Pyrene	129-00-0	44.2	241	ug/kg dry	100k/100k
Butyl benzyl phthalate	85-68-7	44.2	<44.2	ug/kg dry	
Benzo(a)anthracene	56-55-3	44.2	109	ug/kg dry	1k/1k
Chrysene	218-01-9	44.2	179	ug/kg dry	1k/1k
3,3'-Dichlorobenzidine	91-94-1	44.2	<44.2	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	44.2	<44.2	ug/kg dry	
Di-n-octyl phthalate	117-84-0	44.2	<44.2	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	44.2	214	ug/kg dry	1k/1k
Benzo(k)fluoranthene	207-08-9	44.2	69.2	ug/kg dry	100k/1k
Benzo(a)pyrene	50-32-8	44.2	127	ug/kg dry	1k-1k



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Date (Time) Collected: 01/15/2013 10:30	Sample ID: GP3/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	44.2	107	ug/kg dry	520/10
Dibenzo(a,h)anthracene	53-70-3	44.2	<44.2	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	44.2	116	ug/kg dry	
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	109000	ug/kg dry	
n-Hexadecanoic acid	000057-10-3	NA	222	ug/kg dry	

Date Prepared: 01/17/2013

Date Analyzed: 01/21/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8270 D



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Date (Time) Collected: 01/15/2013 10:30	Sample ID: GP3/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	5.52	<5.52	ug/kg dry	
gamma-BHC	58-89-9	5.52	<5.52	ug/kg dry	
beta-BHC	319-85-7	5.52	<5.52	ug/kg dry	
delta-BHC	319-86-8	5.52	<5.52	ug/kg dry	
Heptachlor	76-44-8	5.52	<5.52	ug/kg dry	
Aldrin	309-00-2	5.52	<5.52	ug/kg dry	
Heptachlor Epoxide	1024-57-3	5.52	<5.52	ug/kg dry	
trans-Chlordane	5103-74-2	5.52	<5.52	ug/kg dry	
cis-Chlordane	5103-71-9	5.52	<5.52	ug/kg dry	
4,4'-DDE	72-55-9	5.52	<5.52	ug/kg dry	
Endosulfan I	959-98-8	5.52	<5.52	ug/kg dry	
Dieldrin	60-57-1	5.52	<5.52	ug/kg dry	
Endrin	72-20-8	5.52	<5.52	ug/kg dry	
4,4'-DDD	72-54-8	5.52	<5.52	ug/kg dry	
Endosulfan II	33213-65-9	5.52	<5.52	ug/kg dry	
4,4'-DDT	50-29-3	5.52	<5.52	ug/kg dry	
Endrin Aldehyde	7421-93-4	5.52	<5.52	ug/kg dry	
Methoxychlor	72-43-5	5.52	<5.52	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.52	<5.52	ug/kg dry	
Endrin Ketone	53494-70-5	5.52	<5.52	ug/kg dry	
Toxaphene	8001-35-2	110	<110	ug/kg dry	
Chlordane	12789-03-6	16.6	<16.6	ug/kg dry	

Date Prepared: 01/18/2013

Date Analyzed: 01/24/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8081B



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/15/2013 10:30	Sample ID: GP3/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	55.2	<55.2	ug/kg dry	
Aroclor-1260	11096-82-5	55.2	<55.2	ug/kg dry	
Aroclor-1221	11104-28-2	55.2	<55.2	ug/kg dry	
Aroclor-1232	11141-16-5	55.2	<55.2	ug/kg dry	
Aroclor-1242	53469-21-9	55.2	<55.2	ug/kg dry	
Aroclor-1248	12672-29-6	55.2	<55.2	ug/kg dry	
Aroclor-1254	11097-69-1	55.2	<55.2	ug/kg dry	
Aroclor-1262	37324-23-5	55.2	<55.2	ug/kg dry	
Aroclor-1268	11100-14-4	55.2	<55.2	ug/kg dry	

Date Prepared: 01/18/2013

Date Analyzed: 01/18/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8082 A



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Date (Time) Collected: 01/15/2013 10:30	Sample ID: GP3/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/21/2013	EPA 6010 C	144	6050	mg/kg dry	3.E
Antimony	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Arsenic	01/21/2013	EPA 6010 C	1.00	4.83	mg/kg dry	13/16
Barium	01/21/2013	EPA 6010 C	0.87	106	mg/kg dry	250/300
Beryllium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Cadmium	01/21/2013	EPA 6010 C	1.00	<1.00	mg/kg dry	
Calcium	01/21/2013	EPA 6010 C	36.1	2250	mg/kg dry	3.E
Chromium	01/21/2013	EPA 6010 C	1.65	15.2	mg/kg dry	25/30
Cobalt	01/21/2013	EPA 6010 C	1.65	4.56	mg/kg dry	
Copper	01/21/2013	EPA 6010 C	1.65	42.3	mg/kg dry	50/200
Iron	01/21/2013	EPA 6010 C	144	9770	mg/kg dry	3.E
Lead	01/21/2013	EPA 6010 C	7.21	377	mg/kg dry	3.E
Magnesium	01/21/2013	EPA 6010 C	7.21	2320	mg/kg dry	3.E
Manganese	01/21/2013	EPA 6010 C	36.1	344	mg/kg dry	3.E
Nickel	01/21/2013	EPA 6010 C	1.65	15.9	mg/kg dry	20/130
Potassium	01/21/2013	EPA 6010 C	7.21	953	mg/kg dry	3.E
Selenium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Silver	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Sodium	01/21/2013	EPA 6010 C	7.21	609	mg/kg dry	
Thallium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Vanadium	01/21/2013	EPA 6010 C	1.65	12.4	mg/kg dry	
Zinc	01/21/2013	EPA 6010 C	1.65	81.4	mg/kg dry	100/2200

Date Prepared: 01/18/2013

Preparation Method: EPA 3050B

Date Analyzed: 01/21/2013

Analytical Method: EPA 6010 C

Mercury	01/23/2013	EPA 7471 B	0.02	3.40	mg/kg dry	
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Date Prepared: 01/18/2013

Preparation Method: EPA 7471 B

Date Analyzed: 01/23/2013

Analytical Method: EPA 7471 B

Cyanide	01/22/2013	EPA 9014	0.11	0.12	mg/kg dry	
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Date Prepared: 01/18/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/22/2013

Analytical Method: EPA 9014



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Data Qualifiers Key Reference:

- 3.A Minimum detection limit raised due to matrix interference.
- 3.E Compound reported at a dilution factor
- 4.A Estimated concentration, exceeds calibration range
- 4.F Spike recovery does not meet QC criteria due to high target compound concentration
- 4.G Spike recovery out of range due to matrix interference
- 4.H Spike recovery out of range due to matrix inconsistency
- 4.O Duplicate recovery out of range due to matrix inconsistency
- 5.K Reported as TIC
- MRL Minimum Reporting Limit



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 09:00	Sample ID: GP-4/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-01
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.91	<5.91	ug/kg dry	4.N
Chloromethane	74-87-3	5.91	<5.91	ug/kg dry	
Vinyl chloride	75-01-4	5.91	<5.91	ug/kg dry	
Bromomethane	74-83-9	5.91	<5.91	ug/kg dry	
Chloroethane	75-00-3	5.91	<5.91	ug/kg dry	
Trichlorofluoromethane	75-69-4	5.91	<5.91	ug/kg dry	
Acetone	67-64-1	11.8	<11.8	ug/kg dry	
1,1-Dichloroethylene	75-35-4	5.91	<5.91	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.91	<5.91	ug/kg dry	
Methyl Acetate	79-20-9	5.91	<5.91	ug/kg dry	
Methylene Chloride	75-09-2	5.91	<5.91	ug/kg dry	
Carbon disulfide	75-15-0	5.91	<5.91	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	5.91	<5.91	ug/kg dry	
trans-1,2-Dichloroethylene	156-60-5	5.91	<5.91	ug/kg dry	
1,1-Dichloroethane	75-34-3	5.91	<5.91	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	11.8	<11.8	ug/kg dry	
cis-1,2-Dichloroethylene	156-59-2	5.91	<5.91	ug/kg dry	
Bromochloromethane	74-97-5	5.91	<5.91	ug/kg dry	
Chloroform	67-66-3	5.91	<5.91	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	5.91	<5.91	ug/kg dry	
1,2-Dichloroethane	107-06-2	5.91	<5.91	ug/kg dry	
Carbon Tetrachloride	56-23-5	5.91	<5.91	ug/kg dry	
Benzene	71-43-2	5.91	<5.91	ug/kg dry	
Trichloroethylene	79-01-6	5.91	<5.91	ug/kg dry	
1,2-Dichloropropane	78-87-5	5.91	<5.91	ug/kg dry	
1,4-Dioxane	123-91-1	59.1	<59.1	ug/kg dry	
Bromodichloromethane	75-27-4	5.91	<5.91	ug/kg dry	
Methyl Isobutyl Ketone	108-10-1	11.8	<11.8	ug/kg dry	
cis-1,3-Dichloropropylene	10061-01-5	5.91	<5.91	ug/kg dry	
Toluene	108-88-3	5.91	<5.91	ug/kg dry	
trans-1,3-Dichloropropylene	10061-02-6	5.91	<5.91	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	5.91	<5.91	ug/kg dry	



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 09:00	Sample ID: GP-4/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-01
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Ketone (2-Hexanone)	591-78-6	5.91	<5.91	ug/kg dry	
Dibromochloromethane	124-48-1	5.91	<5.91	ug/kg dry	
Tetrachloroethylene	127-18-4	5.91	<5.91	ug/kg dry	
1,2-Dibromoethane	106-93-4	5.91	<5.91	ug/kg dry	
Chlorobenzene	108-90-7	5.91	<5.91	ug/kg dry	
Ethylbenzene	100-41-4	5.91	<5.91	ug/kg dry	
m,p-Xylenes	108-38-3/106-42-3	11.8	<11.8	ug/kg dry	
Styrene	100-42-5	5.91	<5.91	ug/kg dry	
o-Xylene	95-47-6	5.91	<5.91	ug/kg dry	
Bromoform	75-25-2	5.91	<5.91	ug/kg dry	
1,1,2,2-Tetrachloroethane	79-34-5	5.91	<5.91	ug/kg dry	
Isopropylbenzene (Cumene)	98-82-8	5.91	<5.91	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	5.91	<5.91	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	5.91	<5.91	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	5.91	<5.91	ug/kg dry	
1,2-Dibromo-3-chloropropane	96-12-8	5.91	<5.91	ug/kg dry	
1,2,4-Trichlorobenzene	120-82-1	5.91	<5.91	ug/kg dry	
1,2,3-Trichlorobenzene	87-61-6	5.91	<5.91	ug/kg dry	

Date Prepared: 01/21/2013

Preparation Method: EPA 5030C Modified

Date Analyzed: 01/23/2013

Analytical Method: EPA 8260 C



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 09:00	Sample ID: GP-4/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-01
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	78.0	<78.0	ug/kg dry	3.A
Acetophenone	989-86-2	106	<106	ug/kg dry	3.A
Phenol	108-95-2	94.6	<94.6	ug/kg dry	3.A
2-Chlorophenol	95-57-8	94.6	<94.6	ug/kg dry	3.A
Caprolactam	105-60-2	177	<177	ug/kg dry	3.A
Bis(2-Chloroethyl)ether	111-44-4	94.6	<94.6	ug/kg dry	3.A
1,1-Biphenyl	92-52-4	142	<142	ug/kg dry	3.A
1,2-Diphenylhydrazine	122-66-7	78.0	<78.0	ug/kg dry	3.A
2-Methylphenol	95-48-7	94.6	<94.6	ug/kg dry	3.A
Atrazine	1912-24-9	78.0	<78.0	ug/kg dry	3.A
Bis(2-chloroisopropyl)ether	39638-32-9	94.6	<94.6	ug/kg dry	3.A
Hexachloroethane	67-72-1	94.6	<94.6	ug/kg dry	3.A
3/4-Methylphenol	108-39-4/106-44-5	94.6	<94.6	ug/kg dry	3.A
N-Nitroso-di-n-propylamine	621-64-7	94.6	<94.6	ug/kg dry	3.A
Nitrobenzene	98-95-3	94.6	<94.6	ug/kg dry	3.A
Isophorone	78-59-1	94.6	<94.6	ug/kg dry	3.A
2-Nitrophenol	88-75-5	94.6	<94.6	ug/kg dry	3.A
2,4-Dimethylphenol	105-67-9	94.6	<94.6	ug/kg dry	3.A
bis(2-Chloroethoxy)methane	111-91-1	94.6	<94.6	ug/kg dry	3.A
2,4-Dichlorophenol	120-83-2	94.6	<94.6	ug/kg dry	3.A
Naphthalene	91-20-3	94.6	<94.6	ug/kg dry	3.A
4-Chloroaniline	106-47-8	94.6	<94.6	ug/kg dry	3.A
Hexachlorobutadiene	87-68-3	94.6	<94.6	ug/kg dry	3.A
4-Chloro-3-methylphenol	59-50-7	94.6	<94.6	ug/kg dry	3.A
2-Methylnaphthalene	91-57-6	94.6	<94.6	ug/kg dry	3.A
Hexachlorocyclopentadiene	77-47-4	94.6	<94.6	ug/kg dry	3.A
2,4,6-Trichlorophenol	88-06-2	94.6	<94.6	ug/kg dry	3.A
2,4,5-Trichlorophenol	95-95-4	94.6	<94.6	ug/kg dry	3.A
2-Chloronaphthalene	91-58-7	94.6	<94.6	ug/kg dry	3.A
2-Nitroaniline	88-74-4	94.6	<94.6	ug/kg dry	3.A
Dimethyl phthalate	131-11-3	94.6	<94.6	ug/kg dry	3.A
Acenaphthylene	208-96-8	94.6	<94.6	ug/kg dry	3.A



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Date (Time) Collected: 01/16/2013 09:00	Sample ID: GP-4/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-01
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	94.6	<94.6	ug/kg dry	3.A
3-Nitroaniline	99-09-2	94.6	<94.6	ug/kg dry	3.A
Acenaphthene	83-32-9	94.6	<94.6	ug/kg dry	3.A
2,4-Dinitrophenol	51-28-5	319	<319	ug/kg dry	3.A
Dibenzofuran	132-64-9	94.6	<94.6	ug/kg dry	3.A
4-Nitrophenol	100-02-7	319	<319	ug/kg dry	3.A
2,4-Dinitrotoluene	121-14-2	94.6	<94.6	ug/kg dry	3.A
Fluorene	86-73-7	94.6	<94.6	ug/kg dry	3.A
Diethyl phthalate	84-66-2	94.6	<94.6	ug/kg dry	3.A
4-Chlorophenyl phenyl ether	7005-72-3	94.6	<94.6	ug/kg dry	3.A
4-Nitroaniline	100-01-6	94.6	<94.6	ug/kg dry	3.A
4,6-Dinitro-2-methylphenol	534-52-1	319	<319	ug/kg dry	3.A
N-Nitrosodiphenylamine	86-30-6	94.6	<94.6	ug/kg dry	3.A
4-Bromophenyl phenyl ether	101-55-3	94.6	<94.6	ug/kg dry	3.A
Hexachlorobenzene	118-74-1	94.6	<94.6	ug/kg dry	3.A
Pentachlorophenol	87-86-5	94.6	<94.6	ug/kg dry	3.A
Phenanthrene	85-01-8	94.6	<94.6	ug/kg dry	3.A
Anthracene	120-12-7	94.6	<94.6	ug/kg dry	3.A
Carbazole	86-74-8	94.6	<94.6	ug/kg dry	3.A
Di-n-butyl phthalate	84-74-2	94.6	<94.6	ug/kg dry	3.A
Fluoranthene	206-44-0	94.6	153	ug/kg dry	3.E
Pyrene	129-00-0	94.6	126	ug/kg dry	3.E
Butyl benzyl phthalate	85-68-7	94.6	<94.6	ug/kg dry	3.A
Benzo(a)anthracene	56-55-3	94.6	<94.6	ug/kg dry	3.A
Chrysene	218-01-9	94.6	136	ug/kg dry	3.E
3,3'-Dichlorobenzidine	91-94-1	94.6	<94.6	ug/kg dry	3.A
Bis(2-Ethylhexyl)phthalate	117-81-7	94.6	624	ug/kg dry	3.E
Di-n-octyl phthalate	117-84-0	94.6	<94.6	ug/kg dry	3.A
Benzo(b)fluoranthene	205-99-2	94.6	178	ug/kg dry	3.E
Benzo(k)fluoranthene	207-08-9	94.6	<94.6	ug/kg dry	3.A
Benzo(a)pyrene	50-32-8	94.6	136	ug/kg dry	3.E



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Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-01
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	94.6	118	ug/kg dry	3.E
Dibenzo(a,h)anthracene	53-70-3	94.6	<94.6	ug/kg dry	3.A
Benzo(g,h,i)perylene	191-24-2	94.6	131	ug/kg dry	3.E
2-Pentanone, 4-hydroxy-	004161-60-8	NA	1660	ug/kg dry	
Acetamide, N-acetyl-N-methyl-	001113-68-4	NA	889	ug/kg dry	

Date Prepared: 01/22/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/23/2013

Analytical Method: EPA 8270 D



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Date (Time) Collected: 01/16/2013 09:00	Sample ID: GP-4/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-01
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	5.91	<5.91	ug/kg dry	
gamma-BHC	58-89-9	5.91	<5.91	ug/kg dry	
beta-BHC	319-85-7	5.91	<5.91	ug/kg dry	
delta-BHC	319-86-8	5.91	<5.91	ug/kg dry	
Heptachlor	76-44-8	5.91	<5.91	ug/kg dry	
Aldrin	309-00-2	5.91	<5.91	ug/kg dry	
Heptachlor Epoxide	1024-57-3	5.91	<5.91	ug/kg dry	
trans-Chlordane	5103-74-2	5.91	<5.91	ug/kg dry	
cis-Chlordane	5103-71-9	5.91	<5.91	ug/kg dry	
4,4'-DDE	72-55-9	5.91	<5.91	ug/kg dry	
Endosulfan I	959-98-8	5.91	<5.91	ug/kg dry	
Dieldrin	60-57-1	5.91	<5.91	ug/kg dry	
Endrin	72-20-8	5.91	<5.91	ug/kg dry	
4,4'-DDD	72-54-8	5.91	<5.91	ug/kg dry	
Endosulfan II	33213-65-9	5.91	<5.91	ug/kg dry	
4,4'-DDT	50-29-3	5.91	<5.91	ug/kg dry	
Endrin Aldehyde	7421-93-4	5.91	<5.91	ug/kg dry	
Methoxychlor	72-43-5	5.91	<5.91	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.91	<5.91	ug/kg dry	
Endrin Ketone	53494-70-5	5.91	<5.91	ug/kg dry	
Toxaphene	8001-35-2	118	<118	ug/kg dry	
Chlordane	12789-03-6	17.7	<17.7	ug/kg dry	

Date Prepared: 01/22/2013

Date Analyzed: 01/22/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8081B



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Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-01
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	59.1	<59.1	ug/kg dry	
Aroclor-1260	11096-82-5	59.1	<59.1	ug/kg dry	
Aroclor-1221	11104-28-2	59.1	<59.1	ug/kg dry	
Aroclor-1232	11141-16-5	59.1	<59.1	ug/kg dry	
Aroclor-1242	53469-21-9	59.1	<59.1	ug/kg dry	
Aroclor-1248	12672-29-6	59.1	<59.1	ug/kg dry	
Aroclor-1254	11097-69-1	59.1	<59.1	ug/kg dry	
Aroclor-1262	37324-23-5	59.1	<59.1	ug/kg dry	
Aroclor-1268	11100-14-4	59.1	<59.1	ug/kg dry	

Date Prepared: 01/22/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/22/2013

Analytical Method: EPA 8082 A



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Date (Time) Collected: 01/16/2013 09:00	Sample ID: GP-4/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-01
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/22/2013	EPA 6010 C	164	7580	mg/kg dry	3.E
Antimony	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Arsenic	01/21/2013	EPA 6010 C	1.00	4.06	mg/kg dry	
Barium	01/22/2013	EPA 6010 C	1.98	321	mg/kg dry	3.E
Beryllium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Cadmium	01/21/2013	EPA 6010 C	1.00	<1.00	mg/kg dry	
Calcium	01/22/2013	EPA 6010 C	818	42200	mg/kg dry	3.E
Chromium	01/21/2013	EPA 6010 C	1.65	15.4	mg/kg dry	
Cobalt	01/21/2013	EPA 6010 C	1.65	4.96	mg/kg dry	
Copper	01/21/2013	EPA 6010 C	1.65	33.2	mg/kg dry	
Iron	01/22/2013	EPA 6010 C	164	11800	mg/kg dry	3.E
Lead	01/22/2013	EPA 6010 C	16.4	1840	mg/kg dry	3.E
Magnesium	01/22/2013	EPA 6010 C	16.4	10800	mg/kg dry	3.E
Manganese	01/22/2013	EPA 6010 C	16.4	273	mg/kg dry	3.E
Nickel	01/21/2013	EPA 6010 C	1.65	14.6	mg/kg dry	
Potassium	01/22/2013	EPA 6010 C	16.4	1720	mg/kg dry	3.E
Selenium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Silver	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Sodium	01/21/2013	EPA 6010 C	8.18	884	mg/kg dry	
Thallium	01/21/2013	EPA 6010 C	1.65	1.83	mg/kg dry	
Vanadium	01/21/2013	EPA 6010 C	1.65	15.8	mg/kg dry	
Zinc	01/22/2013	EPA 6010 C	3.27	286	mg/kg dry	3.E

Date Prepared: 01/21/2013

Preparation Method: EPA 3050B

Date Analyzed: 01/22/2013

Analytical Method: EPA 6010 C

Mercury	01/24/2013	EPA 7471 B	0.02	0.88	mg/kg dry	3.E
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Date Prepared: 01/21/2013

Preparation Method: EPA 7471 B

Date Analyzed: 01/24/2013

Analytical Method: EPA 7471 B

Cyanide	01/22/2013	EPA 9014	0.12	<0.12	mg/kg dry	
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Date Prepared: 01/18/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/22/2013

Analytical Method: EPA 9014



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 10:00	Sample ID: GP-5/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-02
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	126	<126	ug/kg dry	3.A, 4.N
Chloromethane	74-87-3	126	<126	ug/kg dry	3.A
Vinyl chloride	75-01-4	126	<126	ug/kg dry	3.A
Bromomethane	74-83-9	126	<126	ug/kg dry	3.A
Chloroethane	75-00-3	126	<126	ug/kg dry	3.A
Trichlorofluoromethane	75-69-4	126	<126	ug/kg dry	3.A
Acetone	67-64-1	251	<251	ug/kg dry	3.A
1,1-Dichloroethylene	75-35-4	126	<126	ug/kg dry	3.A
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	126	<126	ug/kg dry	3.A
Methyl Acetate	79-20-9	126	<126	ug/kg dry	3.A
Methylene Chloride	75-09-2	126	<126	ug/kg dry	3.A
Carbon disulfide	75-15-0	126	<126	ug/kg dry	3.A
Methyl-tert-Butyl Ether	1634-04-4	126	<126	ug/kg dry	3.A
trans-1,2-Dichloroethylene	156-60-5	126	<126	ug/kg dry	3.A
1,1-Dichloroethane	75-34-3	126	<126	ug/kg dry	3.A
Methyl Ethyl Ketone (2-Butanone)	78-93-3	251	<251	ug/kg dry	3.A
cis-1,2-Dichloroethylene	156-59-2	126	<126	ug/kg dry	3.A
Bromochloromethane	74-97-5	126	<126	ug/kg dry	3.A
Chloroform	67-66-3	126	<126	ug/kg dry	3.A
1,1,1-Trichloroethane	71-55-6	126	<126	ug/kg dry	3.A
1,2-Dichloroethane	107-06-2	126	<126	ug/kg dry	3.A
Carbon Tetrachloride	56-23-5	126	<126	ug/kg dry	3.A
Benzene	71-43-2	126	<126	ug/kg dry	3.A
Trichloroethylene	79-01-6	126	<126	ug/kg dry	3.A
1,2-Dichloropropane	78-87-5	126	<126	ug/kg dry	3.A
1,4-Dioxane	123-91-1	1260	<1260	ug/kg dry	3.A
Bromodichloromethane	75-27-4	126	<126	ug/kg dry	3.A
Methyl Isobutyl Ketone	108-10-1	251	<251	ug/kg dry	3.A
cis-1,3-Dichloropropylene	10061-01-5	126	<126	ug/kg dry	3.A
Toluene	108-88-3	126	809	ug/kg dry	3.E
trans-1,3-Dichloropropylene	10061-02-6	126	<126	ug/kg dry	3.A
1,1,2-Trichloroethane	79-00-5	126	<126	ug/kg dry	3.A



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 10:00	Sample ID: GP-5/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-02
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Ketone (2-Hexanone)	591-78-6	126	<126	ug/kg dry	3.A
Dibromochloromethane	124-48-1	126	<126	ug/kg dry	3.A
Tetrachloroethylene	127-18-4	126	<126	ug/kg dry	3.A
1,2-Dibromoethane	106-93-4	126	<126	ug/kg dry	3.A
Chlorobenzene	108-90-7	126	<126	ug/kg dry	3.A
Ethylbenzene	100-41-4	126	1110	ug/kg dry	3.E
m,p-Xylenes	108-38-3/106-42-3	251	6440	ug/kg dry	3.E
Styrene	100-42-5	126	<126	ug/kg dry	3.A
o-Xylene	95-47-6	126	3910	ug/kg dry	3.E
Bromoform	75-25-2	126	<126	ug/kg dry	3.A
1,1,1,2-Tetrachloroethane	79-34-5	126	<126	ug/kg dry	3.A
Isopropylbenzene (Cumene)	98-82-8	126	173	ug/kg dry	3.E
1,3-Dichlorobenzene	541-73-1	126	<126	ug/kg dry	3.A
1,4-Dichlorobenzene	106-46-7	126	<126	ug/kg dry	3.A
1,2-Dichlorobenzene	95-50-1	126	<126	ug/kg dry	3.A
1,2-Dibromo-3-chloropropane	96-12-8	126	<126	ug/kg dry	3.A
1,2,4-Trichlorobenzene	120-82-1	126	<126	ug/kg dry	3.A
1,2,3-Trichlorobenzene	87-61-6	126	<126	ug/kg dry	3.A
Benzene, (2-methylcyclopropyl)-	1000327-39-0	NA	326	ug/kg dry	5.K
Benzene, 1,2,3,4-tetramethyl-	000488-23-3	NA	671	ug/kg dry	5.K
Benzene, 1,2,3,5-tetramethyl-	000527-53-7	NA	439	ug/kg dry	5.K
Benzene, 1,2,4-trimethyl-	000095-63-6	NA	2380	ug/kg dry	5.K
Benzene, 1-ethyl-2,4-dimethyl-	000874-41-9	NA	802	ug/kg dry	5.K
Benzene, 1-ethyl-2-methyl-	000611-14-3	NA	2150	ug/kg dry	5.K
Benzene, 1-ethyl-3,5-dimethyl-	000934-74-7	NA	177	ug/kg dry	5.K
Benzene, 1-methyl-2-propyl-	001074-17-5	NA	231	ug/kg dry	5.K
Ether, hexyl pentyl	032357-83-8	NA	225	ug/kg dry	5.K
Heptane, 2-methyl-	000592-27-8	NA	176	ug/kg dry	5.K
Heptane, 3-methyl-	000589-81-1	NA	239	ug/kg dry	5.K
Nonane	111-84-2	NA	145	ug/kg dry	5.K
Octane	111-65-9	NA	194	ug/kg dry	5.K



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Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-02
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
o-Cymene	000527-84-4	NA	489	ug/kg dry	5.K
Pentane, 3-ethyl-2-methyl-	000609-26-7	NA	153	ug/kg dry	5.K

Date Prepared: 01/21/2013

Preparation Method: EPA 5030C Modified

Date Analyzed: 01/23/2013

Analytical Method: EPA 8260 C



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Date (Time) Collected: 01/16/2013 10:00	Sample ID: GP-5/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-02
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	82.8	<82.8	ug/kg dry	3.A
Acetophenone	989-86-2	113	<113	ug/kg dry	3.A
Phenol	108-95-2	100	<100	ug/kg dry	3.A
2-Chlorophenol	95-57-8	100	<100	ug/kg dry	3.A
Caprolactam	105-60-2	188	<188	ug/kg dry	3.A
Bis(2-Chloroethyl)ether	111-44-4	100	<100	ug/kg dry	3.A
1,1-Biphenyl	92-52-4	151	<151	ug/kg dry	3.A
1,2-Diphenylhydrazine	122-66-7	82.8	<82.8	ug/kg dry	3.A
2-Methylphenol	95-48-7	100	<100	ug/kg dry	3.A
Atrazine	1912-24-9	82.8	<82.8	ug/kg dry	3.A
Bis(2-chloroisopropyl)ether	39638-32-9	100	<100	ug/kg dry	3.A
Hexachloroethane	67-72-1	100	<100	ug/kg dry	3.A
3/4-Methylphenol	108-39-4/106-44-5	100	<100	ug/kg dry	3.A
N-Nitroso-di-n-propylamine	621-64-7	100	<100	ug/kg dry	3.A
Nitrobenzene	98-95-3	100	<100	ug/kg dry	3.A
Isophorone	78-59-1	100	<100	ug/kg dry	3.A
2-Nitrophenol	88-75-5	100	<100	ug/kg dry	3.A
2,4-Dimethylphenol	105-67-9	100	<100	ug/kg dry	3.A
bis(2-Chloroethoxy)methane	111-91-1	100	<100	ug/kg dry	3.A
2,4-Dichlorophenol	120-83-2	100	<100	ug/kg dry	3.A
Naphthalene	91-20-3	100	<100	ug/kg dry	3.A
4-Chloroaniline	106-47-8	100	<100	ug/kg dry	3.A
Hexachlorobutadiene	87-68-3	100	<100	ug/kg dry	3.A
4-Chloro-3-methylphenol	59-50-7	100	<100	ug/kg dry	3.A
2-Methylnaphthalene	91-57-6	100	<100	ug/kg dry	3.A
Hexachlorocyclopentadiene	77-47-4	100	<100	ug/kg dry	3.A
2,4,6-Trichlorophenol	88-06-2	100	<100	ug/kg dry	3.A
2,4,5-Trichlorophenol	95-95-4	100	<100	ug/kg dry	3.A
2-Chloronaphthalene	91-58-7	100	<100	ug/kg dry	3.A
2-Nitroaniline	88-74-4	100	<100	ug/kg dry	3.A
Dimethyl phthalate	131-11-3	100	<100	ug/kg dry	3.A
Acenaphthylene	208-96-8	100	<100	ug/kg dry	3.A



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Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-02
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	100	<100	ug/kg dry	3.A
3-Nitroaniline	99-09-2	100	<100	ug/kg dry	3.A
Acenaphthene	83-32-9	100	<100	ug/kg dry	3.A
2,4-Dinitrophenol	51-28-5	339	<339	ug/kg dry	3.A
Dibenzofuran	132-64-9	100	<100	ug/kg dry	3.A
4-Nitrophenol	100-02-7	339	<339	ug/kg dry	3.A
2,4-Dinitrotoluene	121-14-2	100	<100	ug/kg dry	3.A
Fluorene	86-73-7	100	<100	ug/kg dry	3.A
Diethyl phthalate	84-66-2	100	<100	ug/kg dry	3.A
4-Chlorophenyl phenyl ether	7005-72-3	100	<100	ug/kg dry	3.A
4-Nitroaniline	100-01-6	100	<100	ug/kg dry	3.A
4,6-Dinitro-2-methylphenol	534-52-1	339	<339	ug/kg dry	3.A
N-Nitrosodiphenylamine	86-30-6	100	<100	ug/kg dry	3.A
4-Bromophenyl phenyl ether	101-55-3	100	<100	ug/kg dry	3.A
Hexachlorobenzene	118-74-1	100	<100	ug/kg dry	3.A
Pentachlorophenol	87-86-5	100	<100	ug/kg dry	3.A
Phenanthrene	85-01-8	100	<100	ug/kg dry	3.A
Anthracene	120-12-7	100	<100	ug/kg dry	3.A
Carbazole	86-74-8	100	<100	ug/kg dry	3.A
Di-n-butyl phthalate	84-74-2	100	<100	ug/kg dry	3.A
Fluoranthene	206-44-0	100	<100	ug/kg dry	3.A
Pyrene	129-00-0	100	<100	ug/kg dry	3.A
Butyl benzyl phthalate	85-68-7	100	<100	ug/kg dry	3.A
Benzo(a)anthracene	56-55-3	100	<100	ug/kg dry	3.A
Chrysene	218-01-9	100	<100	ug/kg dry	3.A
3,3'-Dichlorobenzidine	91-94-1	100	<100	ug/kg dry	3.A
Bis(2-Ethylhexyl)phthalate	117-81-7	100	248	ug/kg dry	3.E
Di-n-octyl phthalate	117-84-0	100	<100	ug/kg dry	3.A
Benzo(b)fluoranthene	205-99-2	100	152	ug/kg dry	3.E
Benzo(k)fluoranthene	207-08-9	100	<100	ug/kg dry	3.A
Benzo(a)pyrene	50-32-8	100	115	ug/kg dry	3.E



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Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-02
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	100	115	ug/kg dry	3.E
Dibenzo(a,h)anthracene	53-70-3	100	<100	ug/kg dry	3.A
Benzo(g,h,i)perylene	191-24-2	100	139	ug/kg dry	3.E, 3.A
2-Pentanone, 4-hydroxy-	004161-60-8	NA	1700	ug/kg dry	
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	122000	ug/kg dry	
Acetic acid, 1-methylethyl ester	000108-21-4	NA	582	ug/kg dry	
n-Hexadecanoic acid	000057-10-3	NA	763	ug/kg dry	

Date Prepared: 01/22/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/23/2013

Analytical Method: EPA 8270 D



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Date (Time) Collected: 01/16/2013 10:00	Sample ID: GP-5/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-02
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	6.28	7.18	ug/kg dry	
gamma-BHC	58-89-9	6.28	<6.28	ug/kg dry	
beta-BHC	319-85-7	6.28	<6.28	ug/kg dry	
delta-BHC	319-86-8	6.28	<6.28	ug/kg dry	
Heptachlor	76-44-8	6.28	<6.28	ug/kg dry	
Aldrin	309-00-2	6.28	<6.28	ug/kg dry	
Heptachlor Epoxide	1024-57-3	6.28	<6.28	ug/kg dry	
trans-Chlordane	5103-74-2	6.28	<6.28	ug/kg dry	
cis-Chlordane	5103-71-9	6.28	<6.28	ug/kg dry	
4,4'-DDE	72-55-9	6.28	<6.28	ug/kg dry	
Endosulfan I	959-98-8	6.28	<6.28	ug/kg dry	
Dieldrin	60-57-1	6.28	<6.28	ug/kg dry	
Endrin	72-20-8	6.28	<6.28	ug/kg dry	
4,4'-DDD	72-54-8	6.28	<6.28	ug/kg dry	
Endosulfan II	33213-65-9	6.28	<6.28	ug/kg dry	
4,4'-DDT	50-29-3	6.28	<6.28	ug/kg dry	
Endrin Aldehyde	7421-93-4	6.28	<6.28	ug/kg dry	
Methoxychlor	72-43-5	6.28	<6.28	ug/kg dry	
Endosulfan Sulfate	1031-07-8	6.28	<6.28	ug/kg dry	
Endrin Ketone	53494-70-5	6.28	<6.28	ug/kg dry	
Toxaphene	8001-35-2	126	<126	ug/kg dry	
Chlordane	12789-03-6	18.8	<18.8	ug/kg dry	

Date Prepared: 01/22/2013

Date Analyzed: 01/22/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8081B



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Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-02
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	62.8	<62.8	ug/kg dry	
Aroclor-1260	11096-82-5	62.8	<62.8	ug/kg dry	
Aroclor-1221	11104-28-2	62.8	<62.8	ug/kg dry	
Aroclor-1232	11141-16-5	62.8	<62.8	ug/kg dry	
Aroclor-1242	53469-21-9	62.8	<62.8	ug/kg dry	
Aroclor-1248	12672-29-6	62.8	<62.8	ug/kg dry	
Aroclor-1254	11097-69-1	62.8	<62.8	ug/kg dry	
Aroclor-1262	37324-23-5	62.8	<62.8	ug/kg dry	
Aroclor-1268	11100-14-4	62.8	<62.8	ug/kg dry	

Date Prepared: 01/22/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/22/2013

Analytical Method: EPA 8082 A



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Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-02
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/22/2013	EPA 6010 C	167	6110	mg/kg dry	3.E
Antimony	01/21/2013	EPA 6010 C	1.67	<1.67	mg/kg dry	
Arsenic	01/21/2013	EPA 6010 C	1.01	2.87	mg/kg dry	
Barium	01/22/2013	EPA 6010 C	2.02	250	mg/kg dry	3.E
Beryllium	01/21/2013	EPA 6010 C	1.67	<1.67	mg/kg dry	
Cadmium	01/21/2013	EPA 6010 C	1.01	1.40	mg/kg dry	
Calcium	01/22/2013	EPA 6010 C	833	34200	mg/kg dry	3.E
Chromium	01/21/2013	EPA 6010 C	1.67	13.9	mg/kg dry	
Cobalt	01/21/2013	EPA 6010 C	1.67	4.22	mg/kg dry	
Copper	01/21/2013	EPA 6010 C	1.67	26.0	mg/kg dry	
Iron	01/22/2013	EPA 6010 C	167	11100	mg/kg dry	3.E
Lead	01/22/2013	EPA 6010 C	8.33	588	mg/kg dry	3.E
Magnesium	01/22/2013	EPA 6010 C	8.33	5730	mg/kg dry	3.E
Manganese	01/22/2013	EPA 6010 C	41.6	358	mg/kg dry	3.E
Nickel	01/21/2013	EPA 6010 C	1.67	12.7	mg/kg dry	
Potassium	01/22/2013	EPA 6010 C	3.33	1580	mg/kg dry	3.E
Selenium	01/21/2013	EPA 6010 C	1.67	<1.67	mg/kg dry	
Silver	01/21/2013	EPA 6010 C	1.67	<1.67	mg/kg dry	
Sodium	01/21/2013	EPA 6010 C	8.33	953	mg/kg dry	
Thallium	01/21/2013	EPA 6010 C	1.67	2.42	mg/kg dry	
Vanadium	01/21/2013	EPA 6010 C	1.67	15.8	mg/kg dry	
Zinc	01/22/2013	EPA 6010 C	3.33	280	mg/kg dry	3.E

Preparation Method: EPA 3050B

Date Prepared: 01/21/2013

Analytical Method: EPA 6010 C

Date Analyzed: 01/22/2013

Mercury	01/24/2013	EPA 7471 B	0.03	0.97	mg/kg dry	3.E
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Preparation Method: EPA 7471 B

Date Prepared: 01/21/2013

Analytical Method: EPA 7471 B

Date Analyzed: 01/24/2013

Cyanide	01/22/2013	EPA 9014	0.13	0.16	mg/kg dry	
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Preparation Method: Distillation Prep

Date Prepared: 01/18/2013

Analytical Method: EPA 9014

Date Analyzed: 01/22/2013



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.78	<5.78	ug/kg dry	4.N
Chloromethane	74-87-3	5.78	<5.78	ug/kg dry	
Vinyl chloride	75-01-4	5.78	<5.78	ug/kg dry	
Bromomethane	74-83-9	5.78	<5.78	ug/kg dry	
Chloroethane	75-00-3	5.78	<5.78	ug/kg dry	
Trichlorofluoromethane	75-69-4	5.78	<5.78	ug/kg dry	
Acetone	67-64-1	11.6	<11.6	ug/kg dry	
1,1-Dichloroethylene	75-35-4	5.78	<5.78	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.78	<5.78	ug/kg dry	
Methyl Acetate	79-20-9	5.78	<5.78	ug/kg dry	
Methylene Chloride	75-09-2	5.78	<5.78	ug/kg dry	
Carbon disulfide	75-15-0	5.78	<5.78	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	5.78	<5.78	ug/kg dry	
trans-1,2-Dichloroethylene	156-60-5	5.78	<5.78	ug/kg dry	
1,1-Dichloroethane	75-34-3	5.78	<5.78	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	11.6	<11.6	ug/kg dry	
cis-1,2-Dichloroethylene	156-59-2	5.78	<5.78	ug/kg dry	
Bromochloromethane	74-97-5	5.78	<5.78	ug/kg dry	
Chloroform	67-66-3	5.78	<5.78	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	5.78	<5.78	ug/kg dry	
1,2-Dichloroethane	107-06-2	5.78	<5.78	ug/kg dry	
Carbon Tetrachloride	56-23-5	5.78	<5.78	ug/kg dry	
Benzene	71-43-2	5.78	<5.78	ug/kg dry	
Trichloroethylene	79-01-6	5.78	<5.78	ug/kg dry	
1,2-Dichloropropane	78-87-5	5.78	<5.78	ug/kg dry	
1,4-Dioxane	123-91-1	57.8	<57.8	ug/kg dry	
Bromodichloromethane	75-27-4	5.78	<5.78	ug/kg dry	
Methyl Isobutyl Ketone	108-10-1	11.6	<11.6	ug/kg dry	
cis-1,3-Dichloropropylene	10061-01-5	5.78	<5.78	ug/kg dry	
Toluene	108-88-3	5.78	<5.78	ug/kg dry	
trans-1,3-Dichloropropylene	10061-02-6	5.78	<5.78	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	5.78	<5.78	ug/kg dry	



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Methyl Butyl Ketone (2-Hexanone)	591-78-6	5.78	<5.78	ug/kg dry	
Dibromochloromethane	124-48-1	5.78	<5.78	ug/kg dry	
Tetrachloroethylene	127-18-4	5.78	<5.78	ug/kg dry	
1,2-Dibromoethane	106-93-4	5.78	<5.78	ug/kg dry	
Chlorobenzene	108-90-7	5.78	<5.78	ug/kg dry	
Ethylbenzene	100-41-4	5.78	<5.78	ug/kg dry	
m,p-Xylenes	108-38-3/106-42-3	11.6	<11.6	ug/kg dry	
Styrene	100-42-5	5.78	<5.78	ug/kg dry	
o-Xylene	95-47-6	5.78	<5.78	ug/kg dry	
Bromoform	75-25-2	5.78	<5.78	ug/kg dry	
1,1,2,2-Tetrachloroethane	79-34-5	5.78	<5.78	ug/kg dry	
Isopropylbenzene (Cumene)	98-82-8	5.78	<5.78	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	5.78	<5.78	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	5.78	<5.78	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	5.78	<5.78	ug/kg dry	
1,2-Dibromo-3-chloropropane	96-12-8	5.78	<5.78	ug/kg dry	
1,2,4-Trichlorobenzene	120-82-1	5.78	<5.78	ug/kg dry	
1,2,3-Trichlorobenzene	87-61-6	5.78	<5.78	ug/kg dry	
1-Methyldecahydronaphthalene	002958-75-0	NA	52.4	ug/kg dry	5.K
Decane, 3,7-dimethyl-	017312-54-8	NA	51.5	ug/kg dry	5.K
Decane, 4-methyl-	002847-72-5	NA	27.4	ug/kg dry	5.K
Dodecane	000112-40-3	NA	68.7	ug/kg dry	5.K
Dodecane, 6-methyl-	6044	NA	106	ug/kg dry	5.K
Hexadecane	000544-76-3	NA	26.0	ug/kg dry	5.K
Nonane, 2,5-dimethyl-	017302-27-1	NA	14.4	ug/kg dry	5.K
Nonane, 4-methyl-5-propyl-	062185-55-1	NA	9.73	ug/kg dry	5.K
Undecane, 4-methyl-	002980-69-0	NA	21.5	ug/kg dry	5.K
Undecane, 5-methyl-	1632	NA	59.8	ug/kg dry	5.K
unknown	NA	NA	16.7	ug/kg dry	5.K
unknown hydrocarbon (01)	NA	NA	92.1	ug/kg dry	5.K
unknown hydrocarbon (02)	NA	NA	45.7	ug/kg dry	5.K



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Matrix: Soil	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
unknown hydrocarbon (03)	NA	NA	34.3	ug/kg dry	5.K
unknown hydrocarbon (04)	NA	NA	13.8	ug/kg dry	5.K

Date Prepared: 01/21/2013

Preparation Method: EPA 5030C Modified

Date Analyzed: 01/23/2013

Analytical Method: EPA 8260 C



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Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	76.3	<76.3	ug/kg dry	
Acetophenone	989-86-2	104	<104	ug/kg dry	
Phenol	108-95-2	46.2	<46.2	ug/kg dry	
2-Chlorophenol	95-57-8	46.2	<46.2	ug/kg dry	
Caprolactam	105-60-2	173	<173	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	46.2	<46.2	ug/kg dry	
1,1-Biphenyl	92-52-4	139	<139	ug/kg dry	
1,2-Diphenylhydrazine	122-66-7	76.3	<76.3	ug/kg dry	
2-Methylphenol	95-48-7	46.2	<46.2	ug/kg dry	
Atrazine	1912-24-9	76.3	<76.3	ug/kg dry	
Bis(2-chloroisopropyl)ether	39638-32-9	46.2	<46.2	ug/kg dry	
Hexachloroethane	67-72-1	46.2	<46.2	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	46.2	<46.2	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	46.2	<46.2	ug/kg dry	
Nitrobenzene	98-95-3	46.2	<46.2	ug/kg dry	
Isophorone	78-59-1	46.2	<46.2	ug/kg dry	
2-Nitrophenol	88-75-5	46.2	<46.2	ug/kg dry	
2,4-Dimethylphenol	105-67-9	46.2	<46.2	ug/kg dry	
bis(2-Chloroethoxy)methane	111-91-1	46.2	<46.2	ug/kg dry	
2,4-Dichlorophenol	120-83-2	46.2	<46.2	ug/kg dry	
Naphthalene	91-20-3	46.2	<46.2	ug/kg dry	
4-Chloroaniline	106-47-8	46.2	<46.2	ug/kg dry	
Hexachlorobutadiene	87-68-3	46.2	<46.2	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	46.2	<46.2	ug/kg dry	
2-Methylnaphthalene	91-57-6	46.2	<46.2	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	46.2	<46.2	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	46.2	<46.2	ug/kg dry	
2,4,5-Trichlorophenol	95-95-4	46.2	<46.2	ug/kg dry	
2-Chloronaphthalene	91-58-7	46.2	<46.2	ug/kg dry	
2-Nitroaniline	88-74-4	46.2	<46.2	ug/kg dry	
Dimethyl phthalate	131-11-3	46.2	<46.2	ug/kg dry	
Acenaphthylene	208-96-8	46.2	<46.2	ug/kg dry	



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	46.2	<46.2	ug/kg dry	
3-Nitroaniline	99-09-2	46.2	<46.2	ug/kg dry	
Acenaphthene	83-32-9	46.2	<46.2	ug/kg dry	
2,4-Dinitrophenol	51-28-5	156	<156	ug/kg dry	
Dibenzofuran	132-64-9	46.2	<46.2	ug/kg dry	
4-Nitrophenol	100-02-7	156	<156	ug/kg dry	
2,4-Dinitrotoluene	121-14-2	46.2	<46.2	ug/kg dry	
Fluorene	86-73-7	46.2	<46.2	ug/kg dry	
Diethyl phthalate	84-66-2	46.2	<46.2	ug/kg dry	
4-Chlorophenyl phenyl ether	7005-72-3	46.2	<46.2	ug/kg dry	
4-Nitroaniline	100-01-6	46.2	<46.2	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	156	<156	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	46.2	<46.2	ug/kg dry	
4-Bromophenyl phenyl ether	101-55-3	46.2	<46.2	ug/kg dry	
Hexachlorobenzene	118-74-1	46.2	<46.2	ug/kg dry	
Pentachlorophenol	87-86-5	46.2	<46.2	ug/kg dry	
Phenanthrene	85-01-8	46.2	<46.2	ug/kg dry	
Anthracene	120-12-7	46.2	<46.2	ug/kg dry	
Carbazole	86-74-8	46.2	<46.2	ug/kg dry	
Di-n-butyl phthalate	84-74-2	46.2	<46.2	ug/kg dry	
Fluoranthene	206-44-0	46.2	<46.2	ug/kg dry	
Pyrene	129-00-0	46.2	<46.2	ug/kg dry	
Butyl benzyl phthalate	85-68-7	46.2	<46.2	ug/kg dry	
Benzo(a)anthracene	56-55-3	46.2	<46.2	ug/kg dry	
Chrysene	218-01-9	46.2	<46.2	ug/kg dry	
3,3'-Dichlorobenzidine	91-94-1	46.2	<46.2	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	46.2	88.6	ug/kg dry	
Di-n-octyl phthalate	117-84-0	46.2	<46.2	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	46.2	55.5	ug/kg dry	
Benzo(k)fluoranthene	207-08-9	46.2	<46.2	ug/kg dry	
Benzo(a)pyrene	50-32-8	46.2	49.3	ug/kg dry	



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Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	46.2	67.8	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	46.2	<46.2	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	46.2	112	ug/kg dry	
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	48000	ug/kg dry	
4-Heptafluorobutyryloxyhexadecane	1000215-97-6	NA	188	ug/kg dry	
n-Hexadecanoic acid	000057-10-3	NA	376	ug/kg dry	

Date Prepared: 01/22/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/22/2013

Analytical Method: EPA 8270 D



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	5.78	<5.78	ug/kg dry	
gamma-BHC	58-89-9	5.78	<5.78	ug/kg dry	
beta-BHC	319-85-7	5.78	<5.78	ug/kg dry	
delta-BHC	319-86-8	5.78	<5.78	ug/kg dry	
Heptachlor	76-44-8	5.78	<5.78	ug/kg dry	
Aldrin	309-00-2	5.78	<5.78	ug/kg dry	
Heptachlor Epoxide	1024-57-3	5.78	<5.78	ug/kg dry	
trans-Chlordane	5103-74-2	5.78	<5.78	ug/kg dry	
cis-Chlordane	5103-71-9	5.78	<5.78	ug/kg dry	
4,4'-DDE	72-55-9	5.78	<5.78	ug/kg dry	
Endosulfan I	959-98-8	5.78	<5.78	ug/kg dry	
Dieldrin	60-57-1	5.78	<5.78	ug/kg dry	
Endrin	72-20-8	5.78	<5.78	ug/kg dry	
4,4'-DDD	72-54-8	5.78	<5.78	ug/kg dry	
Endosulfan II	33213-65-9	5.78	<5.78	ug/kg dry	
4,4'-DDT	50-29-3	5.78	<5.78	ug/kg dry	4.G
Endrin Aldehyde	7421-93-4	5.78	<5.78	ug/kg dry	
Methoxychlor	72-43-5	5.78	<5.78	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.78	<5.78	ug/kg dry	
Endrin Ketone	53494-70-5	5.78	<5.78	ug/kg dry	
Toxaphene	8001-35-2	116	<116	ug/kg dry	
Chlordane	12789-03-6	17.3	<17.3	ug/kg dry	

Date Prepared: 01/22/2013

Date Analyzed: 01/22/2013

Preparation Method: EPA 3545 A

Analytical Method: EPA 8081B



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	57.8	<57.8	ug/kg dry	
Aroclor-1260	11096-82-5	57.8	<57.8	ug/kg dry	
Aroclor-1221	11104-28-2	57.8	<57.8	ug/kg dry	
Aroclor-1232	11141-16-5	57.8	<57.8	ug/kg dry	
Aroclor-1242	53469-21-9	57.8	<57.8	ug/kg dry	
Aroclor-1248	12672-29-6	57.8	<57.8	ug/kg dry	
Aroclor-1254	11097-69-1	57.8	<57.8	ug/kg dry	
Aroclor-1262	37324-23-5	57.8	<57.8	ug/kg dry	
Aroclor-1268	11100-14-4	57.8	<57.8	ug/kg dry	

Date Prepared: 01/22/2013

Preparation Method: EPA 3545 A

Date Analyzed: 01/22/2013

Analytical Method: EPA 8082 A



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/22/2013	EPA 6010 C	151	6030	mg/kg dry	3.E
Antimony	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Arsenic	01/21/2013	EPA 6010 C	1.00	2.81	mg/kg dry	
Barium	01/22/2013	EPA 6010 C	1.82	208	mg/kg dry	3.E
Beryllium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Cadmium	01/21/2013	EPA 6010 C	1.00	3.35	mg/kg dry	
Calcium	01/22/2013	EPA 6010 C	753	37000	mg/kg dry	3.E
Chromium	01/21/2013	EPA 6010 C	1.65	14.7	mg/kg dry	
Cobalt	01/21/2013	EPA 6010 C	1.65	4.40	mg/kg dry	
Copper	01/21/2013	EPA 6010 C	1.65	21.3	mg/kg dry	
Iron	01/22/2013	EPA 6010 C	151	11000	mg/kg dry	3.E
Lead	01/22/2013	EPA 6010 C	7.53	675	mg/kg dry	3.E
Magnesium	01/22/2013	EPA 6010 C	7.53	7730	mg/kg dry	3.E
Manganese	01/22/2013	EPA 6010 C	37.6	449	mg/kg dry	3.E
Nickel	01/21/2013	EPA 6010 C	1.65	13.4	mg/kg dry	
Potassium	01/22/2013	EPA 6010 C	3.01	1720	mg/kg dry	3.E
Selenium	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Silver	01/21/2013	EPA 6010 C	1.65	<1.65	mg/kg dry	
Sodium	01/22/2013	EPA 6010 C	15.1	1280	mg/kg dry	3.E
Thallium	01/21/2013	EPA 6010 C	1.65	2.21	mg/kg dry	
Vanadium	01/21/2013	EPA 6010 C	1.65	17.5	mg/kg dry	
Zinc	01/22/2013	EPA 6010 C	7.53	400	mg/kg dry	3.E

Date Prepared: 01/21/2013

Preparation Method: EPA 3050B

Date Analyzed: 01/22/2013

Analytical Method: EPA 6010 C

Mercury	01/24/2013	EPA 7471 B	0.02	0.59	mg/kg dry	3.E
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Date Prepared: 01/21/2013

Preparation Method: EPA 7471 B

Date Analyzed: 01/24/2013

Analytical Method: EPA 7471 B

Cyanide	01/22/2013	EPA 9014	0.12	0.13	mg/kg dry	
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Date Prepared: 01/18/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/22/2013

Analytical Method: EPA 9014



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Data Qualifiers Key Reference:

- 3.A Minimum detection limit raised due to matrix interference.
- 3.E Compound reported at a dilution factor
- 4.F Spike recovery does not meet QC criteria due to high target compound concentration
- 4.G Spike recovery out of range due to matrix interference
- 4.H Spike recovery out of range due to matrix inconsistency
- 4.N LCS recovery below QC limit
- 5.K Reported as TIC
- MRL Minimum Reporting Limit



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SOIL MECHANICS

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3011713

CHAIN OF CUSTODY

ANALYSIS REQUIRED

LABORATORY: L I A		PROJECT NO.		CONTAINERS		ANALYSIS REQUIRED						
PROJECT NAME: <u>MANKATON</u>		PROJECT NO. <u>12-703</u>		NUMBER OF CONTAINERS		TCL Metals	TCL organics including Volc	Succ, Pest	Succ, Pest	ADDITIONAL REQUIREMENTS		
SAMPLE I.D. NUMBER	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION						
GP-1/S-1	1-13-13	10:00	X	X	Soil	0-2'	X	X	X	X	X	3011713-01
GP-1/S-3	↑	10:30	X	X	↑	4'-6"	X	X	X	X	X	02
GP-2/S-1	↑	1:00	X	X	↑	0-2'	X	X	X	X	X	03
GP-2/S-2	↓	1:30	X	X	↓	2-4'	X	X	X	X	X	04
GP-3/S-1	1-15-13	10:00	X	X	↓	0-2'	X	X	X	X	X	05
GP-3/S-3	1-15-13	10:30	X	X	↓	4'-6"	X	X	X	X	X	06
REL BY (SIG.)	DATE/TIME	AGENT OF:	DATE/TIME	RECD BY:	DATE/TIME	AGENT:						
PRINT. NME.				PRINT NME								
REL BY (SIG.)	DATE/TIME	RECEIVED FOR LAB BY	DATE/TIME	DATE/TIME	DATE/TIME	REMARKS:						
PRINT. NME.	1-17-13	<u>Den Anderson</u>	1-17-13	17/13	250M	Temp 1.7						
SAMPLER (SIGNATURE)	<u>Den Anderson</u>		<u>Den Anderson</u>									



LIAL# 3011713

February 21, 2013

Page 1 of 3

Soil Mechanics
Robert J. Cardinale
3770 Merrick Road
Seaford NY, 11783

Re: 12-703 219 Hudson St Manhattan

Dear Robert J. Cardinale,

Enclosed please find Long Island Analytical Laboratories' analysis report(s) for sample(s) received on January 17, 2013. The report was issued on February 21, 2013 for the following:

CLIENT ID	ANALYSIS
GP2/S-1	TCLP Lead
GP3/S-3	TCLP Mercury

Samples received at 1.7 ° C

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

Michael Veraldi - Laboratory Director

Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/12/2013 13:00	Sample ID: GP2/S-1
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-03
Matrix: Soil	ELAP: #11693

Metals by EPA 1311 TCLP Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Lead	02/08/2013	EPA 200.7 Rev. 4.4	0.02	<0.02	mg/L	

Date Leached: 02/07/2013
 Date Prepared: 02/08/2013
 Date Analyzed: 02/08/2013

Leach Batch: B306114

Leach Method: EPA 1311 Fluid #1
 Preparation Method: EPA 200.2
 Analytical Method: EPA 200.7 Rev. 4.4



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"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/15/2013 10:30	Sample ID: GP3/S-3
Date (Time) Received: 01/17/2013 15:48	Laboratory ID: 3011713-06
Matrix: Soil	ELAP: #11693

Metals by EPA 1311 TCLP Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Mercury	02/11/2013	EPA 245.1	0.02	<0.02	mg/L	

Date Leached: 02/07/2013
 Date Prepared: 02/08/2013
 Date Analyzed: 02/11/2013

Leach Batch: B306114

Leach Method: EPA 1311 Fluid #1
 Preparation Method: EPA 245.1
 Analytical Method: EPA 245.1

Data Qualifiers Key Reference:

MRL Minimum Reporting Limit



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LIAL# 3011812

February 19, 2013

Page 1 of 4

Soil Mechanics
Robert J. Cardinale
3770 Merrick Road
Seaford NY, 11783

Re: 12-703 219 Hudson Street Manhattan

Dear Robert J. Cardinale,

Enclosed please find Long Island Analytical Laboratories' analysis report(s) for sample(s) received on January 18, 2013. The report was issued on February 19, 2013 for the following:

CLIENT ID	ANALYSIS
GP-4/S-1	TCLP Lead, TCLP Mercury
GP-5/S-1	TCLP Lead, TCLP Mercury
GP-6/S-3	TCLP Lead

Samples received at 4.7 ° C

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

Michael Veraldi - Laboratory Director

Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 09:00	Sample ID: GP-4/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-01
Matrix: Soil	ELAP: #11693

Metals by EPA 1311 TCLP Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Lead	02/08/2013	EPA 200.7 Rev. 4.4	0.02	0.08	mg/L	
Date Leached: 02/07/2013		Leach Batch: B306114	Leach Method: EPA 1311 Fluid #1			
Date Prepared: 02/08/2013			Preparation Method: EPA 200.2			
Date Analyzed: 02/08/2013			Analytical Method: EPA 200.7 Rev. 4.4			
Mercury	02/11/2013	EPA 245.1	0.02	<0.02	mg/L	
Date Leached: 02/07/2013		Leach Batch: B306114	Leach Method: EPA 1311 Fluid #1			
Date Prepared: 02/08/2013			Preparation Method: EPA 245.1			
Date Analyzed: 02/11/2013			Analytical Method: EPA 245.1			



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 10:00	Sample ID: GP-5/S-1
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-02
Matrix: Soil	ELAP: #11693

Metals by EPA 1311 TCLP Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Lead	02/08/2013	EPA 200.7 Rev. 4.4	0.02	<0.02	mg/L	
Date Leached: 02/07/2013		Leach Batch: B306114	Leach Method: EPA 1311 Fluid #1			
Date Prepared: 02/08/2013			Preparation Method: EPA 200.2			
Date Analyzed: 02/08/2013			Analytical Method: EPA 200.7 Rev. 4.4			
Mercury	02/11/2013	EPA 245.1	0.02	<0.02	mg/L	
Date Leached: 02/07/2013		Leach Batch: B306114	Leach Method: EPA 1311 Fluid #1			
Date Prepared: 02/08/2013			Preparation Method: EPA 245.1			
Date Analyzed: 02/11/2013			Analytical Method: EPA 245.1			



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Metals by EPA 1311 TCLP Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Lead	02/08/2013	EPA 200.7 Rev. 4.4	0.02	0.10	mg/L	

Date Leached: 02/07/2013
 Date Prepared: 02/08/2013
 Date Analyzed: 02/08/2013

Leach Batch: B306114

Leach Method: EPA 1311 Fluid #1
 Preparation Method: EPA 200.2
 Analytical Method: EPA 200.7 Rev. 4.4

Data Qualifiers Key Reference:

MRL Minimum Reporting Limit



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson Street Manhattan
Date (Time) Collected: 01/16/2013 11:00	Sample ID: GP-6/S-3
Date (Time) Received: 01/18/2013 14:38	Laboratory ID: 3011812-03
Matrix: Soil	ELAP: #11693

Metals by EPA 1311 TCLP Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Cadmium	02/08/2013	EPA 200.7 Rev. 4.4	0.02	0.03	mg/L	
Lead	02/08/2013	EPA 200.7 Rev. 4.4	0.02	0.10	mg/L	

Date Leached: 02/07/2013

Leach Batch: B306114

Leach Method: EPA 1311 Fluid #1

Date Prepared: 02/08/2013

Preparation Method: EPA 200.2

Date Analyzed: 02/08/2013

Analytical Method: EPA 200.7 Rev. 4.4

Data Qualifiers Key Reference:

- 3.A Minimum detection limit raised due to matrix interference.
- 3.E Compound reported at a dilution factor
- 4.F Spike recovery does not meet QC criteria due to high target compound concentration
- 4.G Spike recovery out of range due to matrix interference
- 4.H Spike recovery out of range due to matrix inconsistency
- 4.N LCS recovery below QC limit
- 5.K Reported as TIC
- MRL Minimum Reporting Limit



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(2)

SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK • (516) 221-7500

CHAIN OF CUSTODY

3011812

ANALYSIS REQUIRED

LABORATORY: LFA		PROJECT NO.		CONTAINERS		ANALYSIS REQUIRED		ADDITIONAL REQUIREMENTS				
PROJECT NAME: MANHATTAN		PROJECT NO. 12-703		NUMBER OF CONTAINERS		ANALYSIS REQUIRED		ADDITIONAL REQUIREMENTS				
PROJECT LOCATION: 219 Hudson St.		SAMPLE LOCATION		CONTAINERS		ANALYSIS REQUIRED		ADDITIONAL REQUIREMENTS				
SAMPLE I.D. NUMBER	DATE	TIME	QTY	MATRIX	SAMPLE LOCATION	NUMBER OF CONTAINERS	TML Metals	TCL Organics	Including Vol	Svol	pest	PCBS
P-4/S-1	1-16-13	9:00	27	Soil	0-2' B65	2	X	X	X	X	X	X
P-5/S-1	"	10:00	X	"	0-2' B65	2	X	X	X	X	X	X
P-6/S-3	"	11:00	X	"	4-6' B65	2	X	X	X	X	X	X
SAMPLE #												
3011812-03 → Top Cd. } ADDITIONAL TESTING												
3011812-01, 02, 03 → Top Pb } AS NOTED												
3011812-01, 02 → Top Hg } AS NOTED												
RECEIVED BY: [Signature]												
REL BY (SIG)	DATE/TIME	AGENT OF:	DATE/TIME	AGENT:	DATE/TIME	AGENT:						
PRINT. NAME												
REL BY (SIG)	DATE/TIME	RECEIVED FOR LAB BY:	DATE/TIME	AGENT:	DATE/TIME	AGENT:						
PRINT. NAME												
SAMPLER (SIGNATURE): [Signature]	1/13/13	CLYDE KIMB	1/13/13	12:21 PM	1/13/13	12:21 PM	REMARKS: Temp [Signature]					
SAMPLER NAME (PRINT)		Stein Anderson										



LIAL# 3012405

February 01, 2013

Page 1 of 32

Soil Mechanics
Robert J. Cardinale
3770 Merrick Road
Seaford NY, 11783

Re: 12-703 219 Hudson St Manhattan

Dear Robert J. Cardinale,

Enclosed please find Long Island Analytical Laboratories' analysis report(s) for sample(s) received on January 24, 2013. The report was issued on February 01, 2013 for the following:

CLIENT ID	ANALYSIS
MW-1	Aluminum-Filtered, EPA 608, EPA 8081 B, EPA 8260C, EPA 8270 D, K by ICP-D, Mg by ICP-D, Na by ICP-D, Sb by ICP-D, TAL Target Analyte List, Tl by ICP-D, Total Arsenic-Filtered, Total Barium-Filtered, Total Beryllium-Filtered, Total Cadmium-Filtered, Total Calcium-Filtered, Total Chromium-Filtered, Total Cobalt-Filtered, Total Copper-Filtered, Total Iron-Filtered, Total Lead-Filtered, Total Manganese-Filtered, Total Mercury-Filtered, Total Nickel-Filtered, Total Selenium-Filtered, Total Silver-Filtered, Total Zinc-Filtered, V by ICP-D
MW-2	Aluminum-Filtered, EPA 608, EPA 8081 B, EPA 8260C, EPA 8270 D, K by ICP-D, Mg by ICP-D, Na by ICP-D, Sb by ICP-D, TAL Target Analyte List, Tl by ICP-D, Total Arsenic-Filtered, Total Barium-Filtered, Total Beryllium-Filtered, Total Cadmium-Filtered, Total Calcium-Filtered, Total Chromium-Filtered, Total Cobalt-Filtered, Total Copper-Filtered, Total Iron-Filtered, Total Lead-Filtered, Total Manganese-Filtered, Total Mercury-Filtered, Total Nickel-Filtered, Total Selenium-Filtered, Total Silver-Filtered, Total Zinc-Filtered, V by ICP-D
MW-3	Aluminum-Filtered, EPA 608, EPA 8081 B, EPA 8260C, EPA 8270 D, K by ICP-D, Mg by ICP-D, Na by ICP-D, Sb by ICP-D, TAL Target Analyte List, Tl by ICP-D, Total Arsenic-Filtered, Total Barium-Filtered, Total Beryllium-Filtered, Total Cadmium-Filtered, Total Calcium-Filtered, Total Chromium-Filtered, Total Cobalt-Filtered, Total Copper-Filtered, Total Iron-Filtered, Total Lead-Filtered, Total Manganese-Filtered, Total Mercury-Filtered, Total Nickel-Filtered, Total Selenium-Filtered, Total Silver-Filtered, Total Zinc-Filtered, V by ICP-D

Samples received at 3.7 ° C

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,



Long Island Analytical Laboratories, Inc.

Michael Veraldi - Laboratory Director



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	25.0	<25.0	ug/L	3.A
Chloromethane	74-87-3	25.0	<25.0	ug/L	3.A
Vinyl chloride	75-01-4	25.0	<25.0	ug/L	3.A
Bromomethane	74-83-9	25.0	<25.0	ug/L	3.A
Chloroethane	75-00-3	25.0	<25.0	ug/L	3.A
Trichlorofluoromethane	75-69-4	25.0	<25.0	ug/L	3.A
Acetone	67-64-1	50.0	66.4	ug/L	3.E
1,1-Dichloroethylene	75-35-4	25.0	<25.0	ug/L	3.A
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	25.0	<25.0	ug/L	3.A
Methyl Acetate	79-20-9	25.0	<25.0	ug/L	3.A
1,1,1-Trichloroethane	71-55-6	25.0	<25.0	ug/L	3.A
Methylene Chloride	75-09-2	25.0	<25.0	ug/L	3.A
Carbon disulfide	75-15-0	25.0	<25.0	ug/L	3.A
Methyl-tert-Butyl Ether	1634-04-4	25.0	<25.0	ug/L	3.A
trans-1,2-Dichloroethylene	156-60-5	25.0	<25.0	ug/L	3.A
1,1-Dichloroethane	75-34-3	25.0	<25.0	ug/L	3.A
Methyl Ethyl Ketone (2-Butanone)	78-93-3	25.0	<25.0	ug/L	3.A
cis-1,2-Dichloroethylene	156-59-2	25.0	<25.0	ug/L	3.A
Bromochloromethane	74-97-5	25.0	<25.0	ug/L	3.A
Chloroform	67-66-3	25.0	<25.0	ug/L	3.A
1,2-Dichloroethane	107-06-2	25.0	<25.0	ug/L	3.A
Carbon Tetrachloride	56-23-5	25.0	<25.0	ug/L	3.A
Benzene	71-43-2	3.50	88.5	ug/L	3.E
Trichloroethylene	79-01-6	25.0	<25.0	ug/L	3.A
1,2-Dichloropropane	78-87-5	25.0	<25.0	ug/L	3.A
Bromodichloromethane	75-27-4	25.0	<25.0	ug/L	3.A
Methyl Isobutyl Ketone	108-10-1	25.0	<25.0	ug/L	3.A
cis-1,3-Dichloropropylene	10061-01-5	25.0	<25.0	ug/L	3.A
Toluene	108-88-3	25.0	<25.0	ug/L	3.A
trans-1,3-Dichloropropylene	10061-02-6	25.0	<25.0	ug/L	3.A
1,1,2-Trichloroethane	79-00-5	25.0	<25.0	ug/L	3.A
Methyl Butyl Ketone (2-Hexanone)	591-78-6	25.0	<25.0	ug/L	3.A



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dibromochloromethane	124-48-1	25.0	<25.0	ug/L	3.A
Tetrachloroethylene	127-18-4	25.0	<25.0	ug/L	3.A
1,2-Dibromoethane	106-93-4	25.0	<25.0	ug/L	3.A
Chlorobenzene	108-90-7	25.0	<25.0	ug/L	3.A
Ethylbenzene	100-41-4	25.0	73.6	ug/L	3.E
m,p-Xylenes	108-38-3/106-42-3	50.0	<50.0	ug/L	3.A
Styrene	100-42-5	25.0	<25.0	ug/L	3.A
o-Xylene	95-47-6	25.0	<25.0	ug/L	3.A
Bromoform	75-25-2	25.0	<25.0	ug/L	3.A
1,1,1,2-Tetrachloroethane	79-34-5	25.0	<25.0	ug/L	3.A
Isopropylbenzene (Cumene)	98-82-8	25.0	141	ug/L	3.E
1,3-Dichlorobenzene	541-73-1	25.0	<25.0	ug/L	3.A
1,4-Dichlorobenzene	106-46-7	25.0	<25.0	ug/L	3.A
1,2-Dichlorobenzene	95-50-1	25.0	<25.0	ug/L	3.A
1,2-Dibromo-3-chloropropane	96-12-8	25.0	<25.0	ug/L	3.A
1,2,4-Trichlorobenzene	120-82-1	25.0	<25.0	ug/L	3.A
1,2,3-Trichlorobenzene	87-61-6	25.0	<25.0	ug/L	3.A
1H-Indene, 2,3-dihydro-4-methyl-	000824-22-6	NA	283	ug/L	3.E, 5.K
Azulene	000275-51-4	NA	267	ug/L	3.E, 5.K
Benzene, 1,2,3,5-tetramethyl-	000527-53-7	NA	162	ug/L	3.E, 5.K
Benzene, 1,2,4,5-tetramethyl-	000095-93-2	NA	264	ug/L	3.E, 5.K
Benzene, 1,2-diethyl-	000135-01-3	NA	151	ug/L	3.E, 5.K
Benzene, 1-ethenyl-4-ethyl-	003454-07-7	NA	409	ug/L	3.E, 5.K
Benzene, 1-methyl-2-(1-methylethyl)-	000527-84-4	NA	173	ug/L	3.E, 5.K
Benzene, 4-ethyl-1,2-dimethyl-	000934-80-5	NA	441	ug/L	3.E, 5.K
Butane, 2-methyl-	000078-78-4	NA	195	ug/L	3.E, 5.K
Cyclohexane	110-82-7	NA	267	ug/L	3.E, 5.K
Cyclohexane, methyl-	000108-87-2	NA	276	ug/L	3.E, 5.K
Cyclopentane, methyl-	000096-37-7	NA	588	ug/L	3.E, 5.K
Cyclopropane, 1,2-dimethyl-, cis-	000930-18-7	NA	164	ug/L	3.E, 5.K
Indan, 1-methyl-	000767-58-8	NA	465	ug/L	3.E, 5.K



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Pentane, 2-methyl-	000107-83-5	NA	210	ug/L	3.E.5.K
Pentane, 3-methyl-	000096-14-0	NA	156	ug/L	3.E.5.K

Date Prepared: 01/29/2013

Preparation Method: EPA 5030 C

Date Analyzed: 01/29/2013

Analytical Method: EPA 8260 C



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	2.00	<2.00	ug/L	
Acetophenone	989-86-2	2.00	<2.00	ug/L	
Phenol	108-95-2	5.00	<5.00	ug/L	
2-Chlorophenol	95-57-8	5.00	<5.00	ug/L	
Caprolactam	105-60-2	2.00	<2.00	ug/L	
Bis(2-Chloroethyl)ether	111-44-4	5.00	<5.00	ug/L	
1,1-Biphenyl	92-52-4	2.00	<2.00	ug/L	
1,2-Diphenylhydrazine	122-66-7	2.00	<2.00	ug/L	
2-Methylphenol	95-48-7	5.00	<5.00	ug/L	
Atrazine	1912-24-9	2.00	<2.00	ug/L	
Bis(2-chloroisopropyl)ether	39638-32-9	5.00	<5.00	ug/L	
Hexachloroethane	67-72-1	5.00	<5.00	ug/L	
3/4-Methylphenol	108-39-4/106-44-5	5.00	<5.00	ug/L	
N-Nitroso-di-n-propylamine	621-64-7	5.00	<5.00	ug/L	
Nitrobenzene	98-95-3	5.00	<5.00	ug/L	
Isophorone	78-59-1	5.00	<5.00	ug/L	
2-Nitrophenol	88-75-5	5.00	<5.00	ug/L	
2,4-Dimethylphenol	105-67-9	5.00	<5.00	ug/L	
bis(2-Chloroethoxy)methane	111-91-1	5.00	<5.00	ug/L	
2,4-Dichlorophenol	120-83-2	5.00	<5.00	ug/L	
Naphthalene	91-20-3	100	836	ug/L	3.E
4-Chloroaniline	106-47-8	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
4-Chloro-3-methylphenol	59-50-7	5.00	<5.00	ug/L	
2-Methylnaphthalene	91-57-6	100	876	ug/L	3.E
Hexachlorocyclopentadiene	77-47-4	5.00	<5.00	ug/L	
2,4,6-Trichlorophenol	88-06-2	5.00	<5.00	ug/L	
2,4,5-Trichlorophenol	95-95-4	5.00	<5.00	ug/L	
2-Chloronaphthalene	91-58-7	5.00	<5.00	ug/L	
2-Nitroaniline	88-74-4	5.00	<5.00	ug/L	
Dimethyl phthalate	131-11-3	5.00	<5.00	ug/L	
Acenaphthylene	208-96-8	5.00	<5.00	ug/L	



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	5.00	<5.00	ug/L	
3-Nitroaniline	99-09-2	5.00	<5.00	ug/L	
Acenaphthene	83-32-9	5.00	7.44	ug/L	
2,4-Dinitrophenol	51-28-5	5.00	<5.00	ug/L	
Dibenzofuran	132-64-9	5.00	<5.00	ug/L	
4-Nitrophenol	100-02-7	5.00	<5.00	ug/L	
2,4-Dinitrotoluene	121-14-2	5.00	<5.00	ug/L	
Fluorene	86-73-7	5.00	8.72	ug/L	
Diethyl phthalate	84-66-2	5.00	<5.00	ug/L	
4-Chlorophenyl phenyl ether	7005-72-3	5.00	<5.00	ug/L	
4-Nitroaniline	100-01-6	5.00	<5.00	ug/L	
4,6-Dinitro-2-methylphenol	534-52-1	5.00	<5.00	ug/L	
N-Nitrosodiphenylamine	86-30-6	5.00	<5.00	ug/L	
4-Bromophenyl phenyl ether	101-55-3	5.00	<5.00	ug/L	
Hexachlorobenzene	118-74-1	5.00	<5.00	ug/L	
Pentachlorophenol	87-86-5	5.00	<5.00	ug/L	
Phenanthrene	85-01-8	5.00	21.6	ug/L	
Anthracene	120-12-7	5.00	<5.00	ug/L	
Carbazole	86-74-8	5.00	<5.00	ug/L	
Di-n-butyl phthalate	84-74-2	5.00	<5.00	ug/L	
Fluoranthene	206-44-0	5.00	9.56	ug/L	
Pyrene	129-00-0	5.00	10.6	ug/L	
Butyl benzyl phthalate	85-68-7	5.00	<5.00	ug/L	
Benzo(a)anthracene	56-55-3	5.00	<5.00	ug/L	
Chrysene	218-01-9	5.00	<5.00	ug/L	
3,3'-Dichlorobenzidine	91-94-1	5.00	<5.00	ug/L	
Bis(2-Ethylhexyl)phthalate	117-81-7	5.00	<5.00	ug/L	
Di-n-octyl phthalate	117-84-0	5.00	<5.00	ug/L	
Benzo(b)fluoranthene	205-99-2	5.00	<5.00	ug/L	
Benzo(k)fluoranthene	207-08-9	5.00	<5.00	ug/L	
Benzo(a)pyrene	50-32-8	5.00	<5.00	ug/L	



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	5.00	<5.00	ug/L	
Dibenzo(a,h)anthracene	53-70-3	5.00	<5.00	ug/L	
Benzo(g,h,i)perylene	191-24-2	5.00	<5.00	ug/L	
Benzene, 1,2-diethyl-	000135-01-3	NA	61.9	ug/L	5.K
Benzene, 1-ethyl-3,5-dimethyl- (01)	000934-74-7	NA	52.2	ug/L	5.K
Benzene, 1-ethyl-3,5-dimethyl- (02)	000934-74-7	NA	47.2	ug/L	5.K
Benzene, 1-methyl-4-propyl-	001074-55-1	NA	88.5	ug/L	5.K
Benzene, 4-ethyl-1,2-dimethyl-	000934-80-5	NA	85.8	ug/L	5.K
Benzene, propyl-	000103-65-1	NA	149	ug/L	5.K
Decane, 2,6,7-trimethyl-	062108-25-2	NA	47.9	ug/L	5.K
Decane, 2-methyl-	006975-98-0	NA	61.9	ug/L	5.K
Heptane, 2,6-dimethyl-	001072-05-5	NA	33.3	ug/L	5.K
Hexadecane	000544-76-3	NA	33.7	ug/L	5.K
Hexane, 2,2,5-trimethyl-	003522-94-9	NA	42.1	ug/L	5.K
Indane	000496-11-7	NA	78.6	ug/L	5.K
Naphthalene, 1,5-dimethyl-	000571-61-9	NA	74.7	ug/L	5.K
Naphthalene, 1-ethyl-	001127-76-0	NA	46.6	ug/L	5.K
Naphthalene, 2,3-dimethyl-	000581-40-8	NA	132	ug/L	5.K
Nonane, 4-methyl-	017301-94-9	NA	85.5	ug/L	5.K
Octane, 2-methyl-	003221-61-2	NA	73.4	ug/L	5.K

Date Prepared: 01/28/2013

Date Analyzed: 01/28/2013

Preparation Method: EPA 3510C

Analytical Method: EPA 8270 D



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	2.00	<2.00	ug/L	
gamma-BHC	58-89-9	2.00	<2.00	ug/L	
beta-BHC	319-85-7	2.00	<2.00	ug/L	
delta-BHC	319-86-8	2.00	<2.00	ug/L	
Heptachlor	76-44-8	2.00	<2.00	ug/L	
Aldrin	309-00-2	2.00	<2.00	ug/L	
Heptachlor Epoxide	1024-57-3	2.00	<2.00	ug/L	
trans-Chlordane	5103-74-2	2.00	<2.00	ug/L	
cis-Chlordane	5103-71-9	2.00	<2.00	ug/L	
4,4'-DDE	72-55-9	2.00	<2.00	ug/L	
Endosulfan I	959-98-8	2.00	<2.00	ug/L	
Dieldrin	60-57-1	2.00	<2.00	ug/L	
Endrin	72-20-8	2.00	<2.00	ug/L	
4,4'-DDD	72-54-8	2.00	<2.00	ug/L	
Endosulfan II	33213-65-9	2.00	<2.00	ug/L	
4,4'-DDT	50-29-3	2.00	<2.00	ug/L	
Endrin Aldehyde	7421-93-4	2.00	<2.00	ug/L	
Methoxychlor	72-43-5	2.00	<2.00	ug/L	
Endosulfan Sulfate	1031-07-8	2.00	<2.00	ug/L	
Endrin Ketone	53494-70-5	2.00	<2.00	ug/L	
Toxaphene	8001-35-2	2.00	<2.00	ug/L	
Chlordane	12789-03-6	2.00	<2.00	ug/L	

Date Prepared: 01/29/2013

Date Analyzed: 01/30/2013

Preparation Method: EPA 3510C

Analytical Method: EPA 8081B



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	0.500	<0.500	ug/L	
Aroclor-1260	11096-82-5	0.500	<0.500	ug/L	
Aroclor-1254	11097-69-1	0.500	<0.500	ug/L	
Aroclor-1242	53469-21-9	0.500	<0.500	ug/L	
Aroclor-1248	12672-29-6	0.500	<0.500	ug/L	
Aroclor-1221	11104-28-2	0.500	<0.500	ug/L	
Aroclor-1232	11141-16-5	0.500	<0.500	ug/L	

Date Prepared: 01/25/2013

Date Analyzed: 01/29/2013

Preparation Method: EPA 608

Analytical Method: EPA 608



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/25/2013	EPA 200.7 Rev. 4.4	0.05	3.50	mg/L	
Calcium	01/25/2013	EPA 200.7 Rev. 4.4	1.00	454	mg/L	3.E
Antimony	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Arsenic	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Barium	01/25/2013	EPA 200.7 Rev. 4.4	0.01	0.62	mg/L	
Beryllium	01/25/2013	EPA 200.7 Rev. 4.4	0.01	<0.01	mg/L	
Cadmium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Chromium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cobalt	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Copper	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Iron	01/25/2013	EPA 200.7 Rev. 4.4	0.10	11.7	mg/L	
Lead	01/25/2013	EPA 200.7 Rev. 4.4	0.015	0.019	mg/L	
Magnesium	01/25/2013	EPA 200.7 Rev. 4.4	1.00	174	mg/L	3.E
Manganese	01/25/2013	EPA 200.7 Rev. 4.4	0.05	4.53	mg/L	
Nickel	01/25/2013	EPA 200.7 Rev. 4.4	0.02	<0.02	mg/L	
Potassium	01/25/2013	EPA 200.7 Rev. 4.4	0.10	58.6	mg/L	
Selenium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Silver	01/25/2013	EPA 200.7 Rev. 4.4	0.005	<0.005	mg/L	
Sodium	01/25/2013	EPA 200.7 Rev. 4.4	10.0	893	mg/L	3.E
Thallium	01/25/2013	EPA 200.7 Rev. 4.4	0.50	<0.50	mg/L	
Vanadium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Zinc	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	

Date Prepared: 01/25/2013

Preparation Method: EPA 200.2

Date Analyzed: 01/25/2013

Analytical Method: EPA 200.7 Rev. 4.4

Mercury	01/29/2013	EPA 245.1 Rev. 3.0	0.002	<0.002	mg/L	
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Date Prepared: 01/25/2013

Preparation Method: EPA 245.1

Date Analyzed: 01/29/2013

Analytical Method: EPA 245.1 Rev. 3.0

Cyanide	01/30/2013	SM 18-21 4500-CN E (99)	0.002	<0.002	mg/L	
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Date Prepared: 01/28/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/30/2013

Analytical Method: SM 18-21 4500-CN E (9)



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Date (Time) Collected: 01/24/2013 09:00	Sample ID: MW-1
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-01
Matrix: Non-Potable Water	ELAP: #11693

Dissolved Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Calcium	01/28/2013	EPA 200.7 Rev. 4.4	0.50	343	mg/L	3.E
Antimony	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Arsenic	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Barium	01/28/2013	EPA 200.7 Rev. 4.4	1.00	1.44	mg/L	
Beryllium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cadmium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Chromium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cobalt	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Copper	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Iron	01/28/2013	EPA 200.7 Rev. 4.4	0.05	7.35	mg/L	
Lead	01/28/2013	EPA 200.7 Rev. 4.4	0.005	0.04	mg/L	
Magnesium	01/28/2013	EPA 200.7 Rev. 4.4	0.50	150	mg/L	3.E
Manganese	01/28/2013	EPA 200.7 Rev. 4.4	0.05	2.34	mg/L	
Nickel	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Potassium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	25.2	mg/L	4.G
Selenium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Silver	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Sodium	01/28/2013	EPA 200.7 Rev. 4.4	0.50	489	mg/L	3.E, 4.F
Thallium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Vanadium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Zinc	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	

Date Prepared: 01/25/2013

Preparation Method: EPA 200.2

Date Analyzed: 01/28/2013

Analytical Method: EPA 200.7 Rev. 4.4

Mercury	01/29/2013	EPA 245.1 Rev. 3.0	0.002	<0.002	mg/L	
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Date Prepared: 01/25/2013

Preparation Method: EPA 245.1

Date Analyzed: 01/29/2013

Analytical Method: EPA 245.1 Rev. 3.0



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.00	<5.00	ug/L	
Chloromethane	74-87-3	5.00	<5.00	ug/L	
Vinyl chloride	75-01-4	5.00	<5.00	ug/L	
Bromomethane	74-83-9	5.00	<5.00	ug/L	
Chloroethane	75-00-3	5.00	<5.00	ug/L	
Trichlorofluoromethane	75-69-4	5.00	<5.00	ug/L	
Acetone	67-64-1	10.0	<10.0	ug/L	
1,1-Dichloroethylene	75-35-4	5.00	<5.00	ug/L	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.00	<5.00	ug/L	
Methyl Acetate	79-20-9	5.00	<5.00	ug/L	
1,1,1-Trichloroethane	71-55-6	5.00	<5.00	ug/L	
Methylene Chloride	75-09-2	5.00	<5.00	ug/L	
Carbon disulfide	75-15-0	5.00	<5.00	ug/L	
Methyl-tert-Butyl Ether	1634-04-4	5.00	<5.00	ug/L	
trans-1,2-Dichloroethylene	156-60-5	5.00	<5.00	ug/L	
1,1-Dichloroethane	75-34-3	5.00	<5.00	ug/L	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	5.00	<5.00	ug/L	
cis-1,2-Dichloroethylene	156-59-2	5.00	<5.00	ug/L	
Bromochloromethane	74-97-5	5.00	<5.00	ug/L	
Chloroform	67-66-3	5.00	<5.00	ug/L	
1,2-Dichloroethane	107-06-2	5.00	<5.00	ug/L	
Carbon Tetrachloride	56-23-5	5.00	<5.00	ug/L	
Benzene	71-43-2	0.700	4.74	ug/L	
Trichloroethylene	79-01-6	5.00	<5.00	ug/L	
1,2-Dichloropropane	78-87-5	5.00	<5.00	ug/L	
Bromodichloromethane	75-27-4	5.00	<5.00	ug/L	
Methyl Isobutyl Ketone	108-10-1	5.00	<5.00	ug/L	
cis-1,3-Dichloropropylene	10061-01-5	5.00	<5.00	ug/L	
Toluene	108-88-3	5.00	<5.00	ug/L	
trans-1,3-Dichloropropylene	10061-02-6	5.00	<5.00	ug/L	
1,1,2-Trichloroethane	79-00-5	5.00	<5.00	ug/L	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	5.00	<5.00	ug/L	



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Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dibromochloromethane	124-48-1	5.00	<5.00	ug/L	
Tetrachloroethylene	127-18-4	5.00	<5.00	ug/L	
1,2-Dibromoethane	106-93-4	5.00	<5.00	ug/L	
Chlorobenzene	108-90-7	5.00	<5.00	ug/L	
Ethylbenzene	100-41-4	5.00	<5.00	ug/L	
m,p-Xylenes	108-38-3/106-42-3	10.0	<10.0	ug/L	
Styrene	100-42-5	5.00	<5.00	ug/L	
o-Xylene	95-47-6	5.00	<5.00	ug/L	
Bromoform	75-25-2	5.00	<5.00	ug/L	
1,1,2,2-Tetrachloroethane	79-34-5	5.00	<5.00	ug/L	
Isopropylbenzene (Cumene)	98-82-8	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	<5.00	ug/L	
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2,3-Trichlorobenzene	87-61-6	5.00	<5.00	ug/L	
1H-Indene,2,3-dihydro-2,2-dimethyl-	020836-11-7	NA	12.1	ug/L	5.K
Benzene, 1,2,4,5-tetramethyl-	000095-93-2	NA	18.1	ug/L	5.K
Benzene, 1,2-diethyl-	000135-01-3	NA	11.8	ug/L	5.K
Benzene, 1-ethyl-2,3-dimethyl-	000933-98-2	NA	14.1	ug/L	5.K
Benzene, 1-ethyl-4-methyl-	000622-96-8	NA	11.4	ug/L	5.K
Benzene, 1-methyl-2-(1-methyl-2-propenyl)-	097664-19-2	NA	22.0	ug/L	5.K
Benzene, 1-methyl-2-propyl-	001074-17-5	NA	8.70	ug/L	5.K
Butane, 2,2,3,3-tetramethyl-	000594-82-1	NA	8.65	ug/L	5.K
Cyclohexane, 1,1-dimethyl-	000590-66-9	NA	8.44	ug/L	5.K
Cyclohexane, 1,2-dimethyl-, trans-	006876-23-9	NA	9.92	ug/L	5.K
Cyclohexane, methyl-	000108-87-2	NA	12.6	ug/L	5.K
Cyclopentane, 1,2-dimethyl-, trans-	000822-50-4	NA	14.0	ug/L	5.K
Cyclopentene, 1,2,3-trimethyl-	000473-91-6	NA	21.1	ug/L	5.K
Cyclopentene, 1,5-dimethyl-	016491-15-9	NA	38.6	ug/L	5.K



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Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indan, 1-methyl- (01)	000767-58-8	NA	53.2	ug/L	5.K
Indan, 1-methyl- (02)	000767-58-8	NA	25.8	ug/L	5.K

Date Prepared: 01/29/2013

Date Analyzed: 01/29/2013

Preparation Method: EPA 5030 C

Analytical Method: EPA 8260 C



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	2.00	<2.00	ug/L	
Acetophenone	989-86-2	2.00	<2.00	ug/L	
Phenol	108-95-2	5.00	<5.00	ug/L	
2-Chlorophenol	95-57-8	5.00	<5.00	ug/L	
Caprolactam	105-60-2	2.00	<2.00	ug/L	
Bis(2-Chloroethyl)ether	111-44-4	5.00	<5.00	ug/L	
1,1-Biphenyl	92-52-4	2.00	<2.00	ug/L	
1,2-Diphenylhydrazine	122-66-7	2.00	<2.00	ug/L	
2-Methylphenol	95-48-7	5.00	<5.00	ug/L	
Atrazine	1912-24-9	2.00	<2.00	ug/L	
Bis(2-chloroisopropyl)ether	39638-32-9	5.00	<5.00	ug/L	
Hexachloroethane	67-72-1	5.00	<5.00	ug/L	
3/4-Methylphenol	108-39-4/106-44-5	5.00	<5.00	ug/L	
N-Nitroso-di-n-propylamine	621-64-7	5.00	<5.00	ug/L	
Nitrobenzene	98-95-3	5.00	<5.00	ug/L	
Isophorone	78-59-1	5.00	<5.00	ug/L	
2-Nitrophenol	88-75-5	5.00	<5.00	ug/L	
2,4-Dimethylphenol	105-67-9	5.00	<5.00	ug/L	
bis(2-Chloroethoxy)methane	111-91-1	5.00	<5.00	ug/L	
2,4-Dichlorophenol	120-83-2	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	16.5	ug/L	
4-Chloroaniline	106-47-8	5.00	<5.00	ug/L	4.G
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
4-Chloro-3-methylphenol	59-50-7	5.00	<5.00	ug/L	
2-Methylnaphthalene	91-57-6	5.00	15.4	ug/L	
Hexachlorocyclopentadiene	77-47-4	5.00	<5.00	ug/L	
2,4,6-Trichlorophenol	88-06-2	5.00	<5.00	ug/L	
2,4,5-Trichlorophenol	95-95-4	5.00	<5.00	ug/L	
2-Chloronaphthalene	91-58-7	5.00	<5.00	ug/L	
2-Nitroaniline	88-74-4	5.00	<5.00	ug/L	
Dimethyl phthalate	131-11-3	5.00	<5.00	ug/L	
Acenaphthylene	208-96-8	5.00	<5.00	ug/L	



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	5.00	<5.00	ug/L	
3-Nitroaniline	99-09-2	5.00	<5.00	ug/L	
Acenaphthene	83-32-9	5.00	<5.00	ug/L	
2,4-Dinitrophenol	51-28-5	5.00	<5.00	ug/L	
Dibenzofuran	132-64-9	5.00	<5.00	ug/L	
4-Nitrophenol	100-02-7	5.00	<5.00	ug/L	
2,4-Dinitrotoluene	121-14-2	5.00	<5.00	ug/L	4.G
Fluorene	86-73-7	5.00	<5.00	ug/L	
Diethyl phthalate	84-66-2	5.00	<5.00	ug/L	
4-Chlorophenyl phenyl ether	7005-72-3	5.00	<5.00	ug/L	
4-Nitroaniline	100-01-6	5.00	<5.00	ug/L	
4,6-Dinitro-2-methylphenol	534-52-1	5.00	<5.00	ug/L	
N-Nitrosodiphenylamine	86-30-6	5.00	<5.00	ug/L	
4-Bromophenyl phenyl ether	101-55-3	5.00	<5.00	ug/L	
Hexachlorobenzene	118-74-1	5.00	<5.00	ug/L	
Pentachlorophenol	87-86-5	5.00	<5.00	ug/L	
Phenanthrene	85-01-8	5.00	<5.00	ug/L	
Anthracene	120-12-7	5.00	<5.00	ug/L	
Carbazole	86-74-8	5.00	<5.00	ug/L	
Di-n-butyl phthalate	84-74-2	5.00	<5.00	ug/L	
Fluoranthene	206-44-0	5.00	<5.00	ug/L	
Pyrene	129-00-0	5.00	<5.00	ug/L	
Butyl benzyl phthalate	85-68-7	5.00	<5.00	ug/L	
Benzo(a)anthracene	56-55-3	5.00	<5.00	ug/L	
Chrysene	218-01-9	5.00	<5.00	ug/L	
3,3'-Dichlorobenzidine	91-94-1	5.00	<5.00	ug/L	
Bis(2-Ethylhexyl)phthalate	117-81-7	5.00	<5.00	ug/L	
Di-n-octyl phthalate	117-84-0	5.00	<5.00	ug/L	
Benzo(b)fluoranthene	205-99-2	5.00	<5.00	ug/L	
Benzo(k)fluoranthene	207-08-9	5.00	<5.00	ug/L	
Benzo(a)pyrene	50-32-8	5.00	<5.00	ug/L	



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	5.00	<5.00	ug/L	
Dibenzo(a,h)anthracene	53-70-3	5.00	<5.00	ug/L	
Benzo(g,h,i)perylene	191-24-2	5.00	<5.00	ug/L	
1,4-Methanonaphthalene, 1,4-dihydro-	004453-90-1	NA	17.7	ug/L	5.K
1H-Indene, 2,3-dihydro-4-methyl-	000824-22-6	NA	24.7	ug/L	5.K
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	170	ug/L	5.K
Benzene, (1-methyl-1-propenyl)-, (E)-	000768-00-3	NA	26.7	ug/L	5.K
Benzene, (1-methylethyl)-	000098-82-8	NA	10.8	ug/L	5.K
Benzene, 1,2,3,4-tetramethyl-	000488-23-3	NA	30.2	ug/L	5.K
Benzene, 1,3-diethyl-	000141-93-5	NA	32.3	ug/L	5.K
Benzene, 1,4-diethyl-	000105-05-5	NA	42.8	ug/L	5.K
Benzene, 1-methyl-2-(2-propenyl)-	001587-04-8	NA	16.0	ug/L	5.K
Benzene, 1-methyl-4-propyl-	001074-55-1	NA	14.8	ug/L	5.K
Benzene, propyl-	000103-65-1	NA	21.2	ug/L	5.K
Benzoic acid, 2,4,5-trimethyl-	000528-90-5	NA	12.8	ug/L	5.K
Ethylbenzene	100-41-4	NA	9.48	ug/L	5.K
Indane	000496-11-7	NA	60.6	ug/L	5.K
Lauric anhydride	000645-66-9	NA	61.7	ug/L	5.K
Naphthalene, 1,6-dimethyl-	000575-43-9	NA	15.6	ug/L	5.K
n-Hexadecanoic acid	000057-10-3	NA	51.6	ug/L	5.K
Tetradecanoic Acid	544-63-8	NA	12.7	ug/L	

Date Prepared: 01/28/2013

Preparation Method: EPA 3510C

Date Analyzed: 01/28/2013

Analytical Method: EPA 8270 D



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	2.00	<2.00	ug/L	
gamma-BHC	58-89-9	2.00	<2.00	ug/L	
beta-BHC	319-85-7	2.00	<2.00	ug/L	
delta-BHC	319-86-8	2.00	<2.00	ug/L	
Heptachlor	76-44-8	2.00	<2.00	ug/L	
Aldrin	309-00-2	2.00	<2.00	ug/L	
Heptachlor Epoxide	1024-57-3	2.00	<2.00	ug/L	
trans-Chlordane	5103-74-2	2.00	<2.00	ug/L	
cis-Chlordane	5103-71-9	2.00	<2.00	ug/L	
4,4'-DDE	72-55-9	2.00	<2.00	ug/L	
Endosulfan I	959-98-8	2.00	<2.00	ug/L	
Dieldrin	60-57-1	2.00	<2.00	ug/L	
Endrin	72-20-8	2.00	<2.00	ug/L	
4,4'-DDD	72-54-8	2.00	<2.00	ug/L	
Endosulfan II	33213-65-9	2.00	<2.00	ug/L	
4,4'-DDT	50-29-3	2.00	<2.00	ug/L	
Endrin Aldehyde	7421-93-4	2.00	<2.00	ug/L	
Methoxychlor	72-43-5	2.00	<2.00	ug/L	
Endosulfan Sulfate	1031-07-8	2.00	<2.00	ug/L	
Endrin Ketone	53494-70-5	2.00	<2.00	ug/L	
Toxaphene	8001-35-2	2.00	<2.00	ug/L	
Chlordane	12789-03-6	2.00	<2.00	ug/L	

Date Prepared: 01/29/2013

Date Analyzed: 01/29/2013

Preparation Method: EPA 3510C

Analytical Method: EPA 8081B



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Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	0.500	<0.500	ug/L	
Aroclor-1260	11096-82-5	0.500	<0.500	ug/L	
Aroclor-1254	11097-69-1	0.500	<0.500	ug/L	
Aroclor-1242	53469-21-9	0.500	<0.500	ug/L	
Aroclor-1248	12672-29-6	0.500	<0.500	ug/L	
Aroclor-1221	11104-28-2	0.500	<0.500	ug/L	
Aroclor-1232	11141-16-5	0.500	<0.500	ug/L	

Date Prepared: 01/25/2013

Date Analyzed: 01/29/2013

Preparation Method: EPA 608

Analytical Method: EPA 608



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/25/2013	EPA 200.7 Rev. 4.4	0.05	2.16	mg/L	
Calcium	01/25/2013	EPA 200.7 Rev. 4.4	1.00	369	mg/L	3.E
Antimony	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Arsenic	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Barium	01/25/2013	EPA 200.7 Rev. 4.4	0.01	1.61	mg/L	
Beryllium	01/25/2013	EPA 200.7 Rev. 4.4	0.01	<0.01	mg/L	
Cadmium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Chromium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cobalt	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Copper	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Iron	01/25/2013	EPA 200.7 Rev. 4.4	0.10	17.3	mg/L	
Lead	01/25/2013	EPA 200.7 Rev. 4.4	0.015	0.075	mg/L	
Magnesium	01/25/2013	EPA 200.7 Rev. 4.4	1.00	153	mg/L	3.E
Manganese	01/25/2013	EPA 200.7 Rev. 4.4	0.05	2.47	mg/L	
Nickel	01/25/2013	EPA 200.7 Rev. 4.4	0.02	<0.02	mg/L	
Potassium	01/25/2013	EPA 200.7 Rev. 4.4	0.10	25.6	mg/L	
Selenium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Silver	01/25/2013	EPA 200.7 Rev. 4.4	0.005	<0.005	mg/L	
Sodium	01/25/2013	EPA 200.7 Rev. 4.4	1.00	497	mg/L	3.E
Thallium	01/25/2013	EPA 200.7 Rev. 4.4	0.50	<0.50	mg/L	
Vanadium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Zinc	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	

Date Prepared: 01/25/2013

Preparation Method: EPA 200.2

Date Analyzed: 01/25/2013

Analytical Method: EPA 200.7 Rev. 4.4

Mercury	01/29/2013	EPA 245.1 Rev. 3.0	0.002	<0.002	mg/L	
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Date Prepared: 01/25/2013

Preparation Method: EPA 245.1

Date Analyzed: 01/29/2013

Analytical Method: EPA 245.1 Rev. 3.0

Cyanide	01/30/2013	SM 18-21 4500-CN E (99)	0.002	<0.002	mg/L	
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Date Prepared: 01/28/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/30/2013

Analytical Method: SM 18-21 4500-CN E (9)



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 09:30	Sample ID: MW-2
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-02
Matrix: Non-Potable Water	ELAP: #11693

Dissolved Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/28/2013	EPA 200.7 Rev. 4.4	0.05	0.10	mg/L	
Calcium	01/28/2013	EPA 200.7 Rev. 4.4	0.50	441	mg/L	3.E
Antimony	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Arsenic	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Barium	01/28/2013	EPA 200.7 Rev. 4.4	1.00	<1.00	mg/L	
Beryllium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cadmium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Chromium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cobalt	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Copper	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Iron	01/28/2013	EPA 200.7 Rev. 4.4	0.05	3.19	mg/L	
Lead	01/28/2013	EPA 200.7 Rev. 4.4	0.005	0.007	mg/L	
Magnesium	01/28/2013	EPA 200.7 Rev. 4.4	0.50	178	mg/L	3.E
Manganese	01/28/2013	EPA 200.7 Rev. 4.4	0.05	4.60	mg/L	
Nickel	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Potassium	01/28/2013	EPA 200.7 Rev. 4.4	0.50	42.0	mg/L	3.E
Selenium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Silver	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Sodium	01/28/2013	EPA 200.7 Rev. 4.4	5.00	987	mg/L	3.E
Thallium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Vanadium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Zinc	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	

Date Prepared: 01/25/2013

Preparation Method: EPA 200.2

Date Analyzed: 01/28/2013

Analytical Method: EPA 200.7 Rev. 4.4

Mercury	01/29/2013	EPA 245.1 Rev. 3.0	0.002	<0.002	mg/L	
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Date Prepared: 01/25/2013

Preparation Method: EPA 245.1

Date Analyzed: 01/29/2013

Analytical Method: EPA 245.1 Rev. 3.0



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 10:00	Sample ID: MW-3
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dichlorodifluoromethane	75-71-8	5.00	<5.00	ug/L	
Chloromethane	74-87-3	5.00	<5.00	ug/L	
Vinyl chloride	75-01-4	5.00	<5.00	ug/L	
Bromomethane	74-83-9	5.00	<5.00	ug/L	
Chloroethane	75-00-3	5.00	<5.00	ug/L	
Trichlorofluoromethane	75-69-4	5.00	<5.00	ug/L	
Acetone	67-64-1	10.0	<10.0	ug/L	
1,1-Dichloroethylene	75-35-4	5.00	<5.00	ug/L	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.00	<5.00	ug/L	
Methyl Acetate	79-20-9	5.00	<5.00	ug/L	
1,1,1-Trichloroethane	71-55-6	5.00	<5.00	ug/L	
Methylene Chloride	75-09-2	5.00	<5.00	ug/L	
Carbon disulfide	75-15-0	5.00	<5.00	ug/L	
Methyl-tert-Butyl Ether	1634-04-4	5.00	<5.00	ug/L	
trans-1,2-Dichloroethylene	156-60-5	5.00	<5.00	ug/L	
1,1-Dichloroethane	75-34-3	5.00	<5.00	ug/L	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	5.00	<5.00	ug/L	
cis-1,2-Dichloroethylene	156-59-2	5.00	<5.00	ug/L	
Bromochloromethane	74-97-5	5.00	<5.00	ug/L	
Chloroform	67-66-3	5.00	<5.00	ug/L	
1,2-Dichloroethane	107-06-2	5.00	<5.00	ug/L	
Carbon Tetrachloride	56-23-5	5.00	<5.00	ug/L	
Benzene	71-43-2	0.700	<0.700	ug/L	
Trichloroethylene	79-01-6	5.00	<5.00	ug/L	
1,2-Dichloropropane	78-87-5	5.00	<5.00	ug/L	
Bromodichloromethane	75-27-4	5.00	<5.00	ug/L	
Methyl Isobutyl Ketone	108-10-1	5.00	<5.00	ug/L	
cis-1,3-Dichloropropylene	10061-01-5	5.00	<5.00	ug/L	
Toluene	108-88-3	5.00	<5.00	ug/L	
trans-1,3-Dichloropropylene	10061-02-6	5.00	<5.00	ug/L	
1,1,2-Trichloroethane	79-00-5	5.00	<5.00	ug/L	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	5.00	<5.00	ug/L	



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 10:00	Sample ID: MW-3
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Dibromochloromethane	124-48-1	5.00	<5.00	ug/L	
Tetrachloroethylene	127-18-4	5.00	<5.00	ug/L	
1,2-Dibromoethane	106-93-4	5.00	<5.00	ug/L	
Chlorobenzene	108-90-7	5.00	<5.00	ug/L	
Ethylbenzene	100-41-4	5.00	<5.00	ug/L	
m,p-Xylenes	108-38-3/106-42-3	10.0	<10.0	ug/L	
Styrene	100-42-5	5.00	<5.00	ug/L	
o-Xylene	95-47-6	5.00	<5.00	ug/L	
Bromoform	75-25-2	5.00	<5.00	ug/L	
1,1,2,2-Tetrachloroethane	79-34-5	5.00	<5.00	ug/L	
Isopropylbenzene (Cumene)	98-82-8	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	<5.00	ug/L	
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2,3-Trichlorobenzene	87-61-6	5.00	<5.00	ug/L	
Benzene, 1,2,3,5-tetramethyl-	000527-53-7	NA	14.6	ug/L	5.K
Benzene, 1,2-diethyl-	000135-01-3	NA	13.2	ug/L	5.K
Butane, 2,3-dimethyl-	000079-29-8	NA	9.04	ug/L	5.K
Butane, 2-methyl-	000078-78-4	NA	7.01	ug/L	5.K
Cyclohexane	110-82-7	NA	24.4	ug/L	5.K
Cyclohexane, 1,3-dimethyl-, trans-	002207-03-6	NA	8.54	ug/L	5.K
Cyclopentane, 1,1,3-trimethyl-	004516-69-2	NA	5.96	ug/L	5.K
Cyclopentane, 1,1-dimethyl-	001638-26-2	NA	7.34	ug/L	5.K
Cyclopentane, 1,2-dimethyl-, cis-	001192-18-3	NA	5.81	ug/L	5.K
Cyclopentane, 1,2-dimethyl-, trans-	000822-50-4	NA	14.7	ug/L	5.K
Cyclopentane, 1-methyl-2-methylene-	041158-41-2	NA	6.56	ug/L	5.K
Cyclopentene, 1,2,3-trimethyl-	000473-91-6	NA	16.4	ug/L	5.K
Indan, 1-methyl-	000767-58-8	NA	20.4	ug/L	5.K
Isooctane, (ethenyl-)-	037769-62-3	NA	9.56	ug/L	5.K



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 10:00	Sample ID: MW-3
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

Volatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Pentane, 3-methyl-	000096-14-0	NA	10.4	ug/L	5.K
unknown hydrocarbon	NA	NA	5.87	ug/L	5.K

Date Prepared: 01/29/2013

Preparation Method: EPA 5030 C

Date Analyzed: 01/29/2013

Analytical Method: EPA 8260 C



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Date (Time) Collected: 01/24/2013 10:00	Sample ID: MW-3
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Benzaldehyde	100-52-7	2.00	<2.00	ug/L	
Acetophenone	989-86-2	2.00	<2.00	ug/L	
Phenol	108-95-2	5.00	<5.00	ug/L	
2-Chlorophenol	95-57-8	5.00	<5.00	ug/L	
Caprolactam	105-60-2	2.00	<2.00	ug/L	
Bis(2-Chloroethyl)ether	111-44-4	5.00	<5.00	ug/L	
1,1-Biphenyl	92-52-4	2.00	<2.00	ug/L	
1,2-Diphenylhydrazine	122-66-7	2.00	<2.00	ug/L	
2-Methylphenol	95-48-7	5.00	<5.00	ug/L	
Atrazine	1912-24-9	2.00	<2.00	ug/L	
Bis(2-chloroisopropyl)ether	39638-32-9	5.00	<5.00	ug/L	
Hexachloroethane	67-72-1	5.00	<5.00	ug/L	
3/4-Methylphenol	108-39-4/106-44-5	5.00	<5.00	ug/L	
N-Nitroso-di-n-propylamine	621-64-7	5.00	<5.00	ug/L	
Nitrobenzene	98-95-3	5.00	<5.00	ug/L	
Isophorone	78-59-1	5.00	<5.00	ug/L	
2-Nitrophenol	88-75-5	5.00	<5.00	ug/L	
2,4-Dimethylphenol	105-67-9	5.00	<5.00	ug/L	
bis(2-Chloroethoxy)methane	111-91-1	5.00	<5.00	ug/L	
2,4-Dichlorophenol	120-83-2	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	
4-Chloroaniline	106-47-8	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
4-Chloro-3-methylphenol	59-50-7	5.00	<5.00	ug/L	
2-Methylnaphthalene	91-57-6	5.00	<5.00	ug/L	
Hexachlorocyclopentadiene	77-47-4	5.00	<5.00	ug/L	
2,4,6-Trichlorophenol	88-06-2	5.00	<5.00	ug/L	
2,4,5-Trichlorophenol	95-95-4	5.00	<5.00	ug/L	
2-Chloronaphthalene	91-58-7	5.00	<5.00	ug/L	
2-Nitroaniline	88-74-4	5.00	<5.00	ug/L	
Dimethyl phthalate	131-11-3	5.00	<5.00	ug/L	
Acenaphthylene	208-96-8	5.00	<5.00	ug/L	



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Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
2,6-Dinitrotoluene	606-20-2	5.00	<5.00	ug/L	
3-Nitroaniline	99-09-2	5.00	<5.00	ug/L	
Acenaphthene	83-32-9	5.00	<5.00	ug/L	
2,4-Dinitrophenol	51-28-5	5.00	<5.00	ug/L	
Dibenzofuran	132-64-9	5.00	<5.00	ug/L	
4-Nitrophenol	100-02-7	5.00	<5.00	ug/L	
2,4-Dinitrotoluene	121-14-2	5.00	<5.00	ug/L	
Fluorene	86-73-7	5.00	<5.00	ug/L	
Diethyl phthalate	84-66-2	5.00	<5.00	ug/L	
4-Chlorophenyl phenyl ether	7005-72-3	5.00	<5.00	ug/L	
4-Nitroaniline	100-01-6	5.00	<5.00	ug/L	
4,6-Dinitro-2-methylphenol	534-52-1	5.00	<5.00	ug/L	
N-Nitrosodiphenylamine	86-30-6	5.00	<5.00	ug/L	
4-Bromophenyl phenyl ether	101-55-3	5.00	<5.00	ug/L	
Hexachlorobenzene	118-74-1	5.00	<5.00	ug/L	
Pentachlorophenol	87-86-5	5.00	<5.00	ug/L	
Phenanthrene	85-01-8	5.00	<5.00	ug/L	
Anthracene	120-12-7	5.00	<5.00	ug/L	
Carbazole	86-74-8	5.00	<5.00	ug/L	
Di-n-butyl phthalate	84-74-2	5.00	<5.00	ug/L	
Fluoranthene	206-44-0	5.00	<5.00	ug/L	
Pyrene	129-00-0	5.00	<5.00	ug/L	
Butyl benzyl phthalate	85-68-7	5.00	<5.00	ug/L	
Benzo(a)anthracene	56-55-3	5.00	<5.00	ug/L	
Chrysene	218-01-9	5.00	<5.00	ug/L	
3,3'-Dichlorobenzidine	91-94-1	5.00	<5.00	ug/L	
Bis(2-Ethylhexyl)phthalate	117-81-7	5.00	<5.00	ug/L	
Di-n-octyl phthalate	117-84-0	5.00	<5.00	ug/L	
Benzo(b)fluoranthene	205-99-2	5.00	<5.00	ug/L	
Benzo(k)fluoranthene	207-08-9	5.00	<5.00	ug/L	
Benzo(a)pyrene	50-32-8	5.00	<5.00	ug/L	



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Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Indeno(1,2,3-cd)pyrene	193-39-5	5.00	<5.00	ug/L	
Dibenzo(a,h)anthracene	53-70-3	5.00	<5.00	ug/L	
Benzo(g,h,i)perylene	191-24-2	5.00	<5.00	ug/L	
2-Pentanone, 4-hydroxy-4-methyl-	000123-42-2	NA	205	ug/L	5.K
Benzene, 1,2-diethyl-	000135-01-3	NA	12.0	ug/L	5.K
Benzene, 1-methyl-3-(1-methylethyl)-	000535-77-3	NA	9.24	ug/L	5.K
Benzene, propyl-	000103-65-1	NA	14.0	ug/L	5.K
Lauric anhydride	000645-66-9	NA	18.9	ug/L	5.K
n-Hexadecanoic acid	000057-10-3	NA	32.6	ug/L	5.K

Date Prepared: 01/28/2013

Preparation Method: EPA 3510C

Date Analyzed: 01/28/2013

Analytical Method: EPA 8270 D



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Matrix: Non-Potable Water	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
alpha-BHC	319-84-6	2.00	<2.00	ug/L	
gamma-BHC	58-89-9	2.00	<2.00	ug/L	
beta-BHC	319-85-7	2.00	<2.00	ug/L	
delta-BHC	319-86-8	2.00	<2.00	ug/L	
Heptachlor	76-44-8	2.00	<2.00	ug/L	
Aldrin	309-00-2	2.00	<2.00	ug/L	
Heptachlor Epoxide	1024-57-3	2.00	<2.00	ug/L	
trans-Chlordane	5103-74-2	2.00	<2.00	ug/L	
cis-Chlordane	5103-71-9	2.00	<2.00	ug/L	
4,4'-DDE	72-55-9	2.00	<2.00	ug/L	
Endosulfan I	959-98-8	2.00	<2.00	ug/L	
Dieldrin	60-57-1	2.00	<2.00	ug/L	
Endrin	72-20-8	2.00	<2.00	ug/L	
4,4'-DDD	72-54-8	2.00	<2.00	ug/L	
Endosulfan II	33213-65-9	2.00	<2.00	ug/L	
4,4'-DDT	50-29-3	2.00	<2.00	ug/L	
Endrin Aldehyde	7421-93-4	2.00	<2.00	ug/L	
Methoxychlor	72-43-5	2.00	<2.00	ug/L	
Endosulfan Sulfate	1031-07-8	2.00	<2.00	ug/L	
Endrin Ketone	53494-70-5	2.00	<2.00	ug/L	
Toxaphene	8001-35-2	2.00	<2.00	ug/L	
Chlordane	12789-03-6	2.00	<2.00	ug/L	

Date Prepared: 01/29/2013

Preparation Method: EPA 3510C

Date Analyzed: 01/29/2013

Analytical Method: EPA 8081B



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Date (Time) Collected: 01/24/2013 10:00	Sample ID: MW-3
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	MRL	Result	Units	Flag
Aroclor-1016	12674-11-2	0.500	<0.500	ug/L	
Aroclor-1260	11096-82-5	0.500	<0.500	ug/L	
Aroclor-1254	11097-69-1	0.500	<0.500	ug/L	
Aroclor-1242	53469-21-9	0.500	<0.500	ug/L	
Aroclor-1248	12672-29-6	0.500	<0.500	ug/L	
Aroclor-1221	11104-28-2	0.500	<0.500	ug/L	
Aroclor-1232	11141-16-5	0.500	<0.500	ug/L	

Date Prepared: 01/25/2013

Preparation Method: EPA 608

Date Analyzed: 01/29/2013

Analytical Method: EPA 608



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Client: Soil Mechanics	Client ID: 12-703 219 Hudson St Manhattan
Date (Time) Collected: 01/24/2013 10:00	Sample ID: MW-3
Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/25/2013	EPA 200.7 Rev. 4.4	0.05	1.13	mg/L	
Calcium	01/25/2013	EPA 200.7 Rev. 4.4	1.00	277	mg/L	3.E
Antimony	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Arsenic	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Barium	01/25/2013	EPA 200.7 Rev. 4.4	0.01	1.09	mg/L	
Beryllium	01/25/2013	EPA 200.7 Rev. 4.4	0.01	<0.01	mg/L	
Cadmium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Chromium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cobalt	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Copper	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Iron	01/25/2013	EPA 200.7 Rev. 4.4	0.10	17.3	mg/L	
Lead	01/25/2013	EPA 200.7 Rev. 4.4	0.015	<0.015	mg/L	
Magnesium	01/25/2013	EPA 200.7 Rev. 4.4	0.10	71.9	mg/L	
Manganese	01/25/2013	EPA 200.7 Rev. 4.4	0.05	3.99	mg/L	
Nickel	01/25/2013	EPA 200.7 Rev. 4.4	0.02	<0.02	mg/L	
Potassium	01/25/2013	EPA 200.7 Rev. 4.4	0.10	44.5	mg/L	
Selenium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Silver	01/25/2013	EPA 200.7 Rev. 4.4	0.005	<0.005	mg/L	
Sodium	01/25/2013	EPA 200.7 Rev. 4.4	1.00	554	mg/L	3.E
Thallium	01/25/2013	EPA 200.7 Rev. 4.4	0.50	<0.50	mg/L	
Vanadium	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Zinc	01/25/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	

Date Prepared: 01/25/2013

Preparation Method: EPA 200.2

Date Analyzed: 01/25/2013

Analytical Method: EPA 200.7 Rev. 4.4

Mercury	01/29/2013	EPA 245.1 Rev. 3.0	0.002	<0.002	mg/L	
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Date Prepared: 01/25/2013

Preparation Method: EPA 245.1

Date Analyzed: 01/29/2013

Analytical Method: EPA 245.1 Rev. 3.0

Cyanide	01/30/2013	SM 18-21 4500-CN E (99)	0.002	<0.002	mg/L	
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Date Prepared: 01/28/2013

Preparation Method: Distillation Prep

Date Analyzed: 01/30/2013

Analytical Method: SM 18-21 4500-CN E (9)



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Date (Time) Received: 01/24/2013 14:27	Laboratory ID: 3012405-03
Matrix: Non-Potable Water	ELAP: #11693

Dissolved Metals Analysis

Parameter	Date Analyzed	Method	MRL	Result	Units	Flag
Aluminum	01/28/2013	EPA 200.7 Rev. 4.4	0.05	0.13	mg/L	
Calcium	01/28/2013	EPA 200.7 Rev. 4.4	0.50	273	mg/L	3.E
Antimony	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Arsenic	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Barium	01/28/2013	EPA 200.7 Rev. 4.4	1.00	1.11	mg/L	
Beryllium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cadmium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Chromium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Cobalt	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Copper	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Iron	01/28/2013	EPA 200.7 Rev. 4.4	0.05	9.56	mg/L	
Lead	01/28/2013	EPA 200.7 Rev. 4.4	0.005	<0.005	mg/L	
Magnesium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	78.0	mg/L	
Manganese	01/28/2013	EPA 200.7 Rev. 4.4	0.05	4.19	mg/L	
Nickel	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Potassium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	49.4	mg/L	
Selenium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Silver	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Sodium	01/28/2013	EPA 200.7 Rev. 4.4	0.50	578	mg/L	3.E
Thallium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Vanadium	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	
Zinc	01/28/2013	EPA 200.7 Rev. 4.4	0.05	<0.05	mg/L	

Date Prepared: 01/25/2013

Preparation Method: EPA 200.2

Date Analyzed: 01/28/2013

Analytical Method: EPA 200.7 Rev. 4.4

Mercury	01/29/2013	EPA 245.1 Rev. 3.0	0.002	<0.002	mg/L	
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Date Prepared: 01/25/2013

Preparation Method: EPA 245.1

Date Analyzed: 01/29/2013

Analytical Method: EPA 245.1 Rev. 3.0

Data Qualifiers Key Reference:

- 3.A Minimum detection limit raised due to matrix interference.
- 3.E Compound reported at a dilution factor
- 4.F Spike recovery does not meet QC criteria due to high target compound concentration
- 4.G Spike recovery out of range due to matrix interference
- 5.K Reported as TIC
- MRL Minimum Reporting Limit



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ANALYTICAL REPORT

Lab Number:	L1410117
Client:	GZA GeoEnvironmental, Inc. 104 West 29th Street, 10th Floor New York, NY 10001
ATTN:	Clifford Bell
Phone:	(212) 594-8140
Project Name:	Not Specified
Project Number:	41.0162191.00
Report Date:	05/19/14

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

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



Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1410117-01	MW-1	219 HUDSON ST., MANHATTAN, NY	05/12/14 11:24
L1410117-02	MW-2	219 HUDSON ST, MANHATTAN, NY	05/12/14 12:54

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Case Narrative

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

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

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

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

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

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

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Case Narrative (continued)

Report Submission

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

Sample Receipt

The samples were field filtered for Dissolved Metals.

Semivolatile Organics

The WG690217-1 Method Blank, associated with L1410117-01 and -02, has a concentration above the reporting limit for bis(2-ethylhexyl)phthalate. The results of the original analysis are reported and are qualified with a "B" for any associated sample concentrations that are less than 10x the blank concentration for this analyte.

Dissolved Metals

L1410117-01 and -02: Several dissolved results are greater than total results. The sample containers were verified as being labeled correctly by the laboratory.

The WG689913-4 MS recoveries, performed on L1410117-01, are outside the acceptance criteria for arsenic (131%), barium (133%), cadmium (140%), chromium (129%), cobalt (130%), copper (130%), lead (134%), manganese (195%), nickel (128%), potassium (0%), vanadium (135%), and zinc (134%). A post digestion spike was performed and yielded unacceptable recoveries for arsenic (126%), barium (140%), cadmium (124%), chromium (122%), cobalt (122%), copper (122%), lead (122%), manganese (163%), nickel (122%), vanadium (121%), and zinc (126%); potassium was within acceptance criteria. This has been attributed to sample matrix. The WG689913-4 MS recoveries for calcium (0%), iron (360%), magnesium (182%), and sodium (880%), performed on L1410117-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG689913-3 Laboratory Duplicate RPDs, performed on L1410117-01, are outside the acceptance criteria for antimony (54%) and barium (21%). The elevated RPDs have been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

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

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 05/19/14

ORGANICS

VOLATILES

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-01 D
 Client ID: MW-1
 Sample Location: 219 HUDSON ST., MANHATTAN, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 05/15/14 16:55
 Analyst: PD

Date Collected: 05/12/14 11:24
 Date Received: 05/12/14
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.3	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
1,1-Dichloropropene	ND		ug/l	25	7.0	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.4	10
Benzene	170		ug/l	5.0	1.6	10
Toluene	39		ug/l	25	7.0	10
Ethylbenzene	590		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	3.3	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.4	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	ND		ug/l	5.0	1.7	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-01 D
 Client ID: MW-1
 Sample Location: 219 HUDSON ST., MANHATTAN, NY

Date Collected: 05/12/14 11:24
 Date Received: 05/12/14
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	170		ug/l	25	7.0	10
o-Xylene	17	J	ug/l	25	7.0	10
Xylenes, Total	190	J	ug/l	25	7.0	10
cis-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Dibromomethane	ND		ug/l	50	10.	10
1,2,3-Trichloropropane	ND		ug/l	25	7.0	10
Acrylonitrile	ND		ug/l	50	15.	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	10.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	10.	10
Vinyl acetate	ND		ug/l	50	10.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
2,2-Dichloropropane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,3-Dichloropropane	ND		ug/l	25	7.0	10
1,1,1,2-Tetrachloroethane	ND		ug/l	25	7.0	10
Bromobenzene	ND		ug/l	25	7.0	10
n-Butylbenzene	22	J	ug/l	25	7.0	10
sec-Butylbenzene	14	J	ug/l	25	7.0	10
tert-Butylbenzene	ND		ug/l	25	7.0	10
o-Chlorotoluene	ND		ug/l	25	7.0	10
p-Chlorotoluene	ND		ug/l	25	7.0	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Hexachlorobutadiene	ND		ug/l	25	7.0	10
Isopropylbenzene	200		ug/l	25	7.0	10
p-Isopropyltoluene	13	J	ug/l	25	7.0	10
Naphthalene	220		ug/l	25	7.0	10
n-Propylbenzene	300		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	84		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	17	J	ug/l	25	7.0	10
1,4-Dioxane	ND		ug/l	2500	410	10
p-Diethylbenzene	110		ug/l	20	7.0	10

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-01 D
 Client ID: MW-1
 Sample Location: 219 HUDSON ST., MANHATTAN, NY

Date Collected: 05/12/14 11:24
 Date Received: 05/12/14
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p-Ethyltoluene	64		ug/l	20	7.0	10
1,2,4,5-Tetramethylbenzene	26		ug/l	20	6.5	10
Ethyl ether	ND		ug/l	25	7.0	10
trans-1,4-Dichloro-2-butene	ND		ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	90		70-130

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-02
 Client ID: MW-2
 Sample Location: 219 HUDSON ST, MANHATTAN, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 05/15/14 16:18
 Analyst: PD

Date Collected: 05/12/14 12:54
 Date Received: 05/12/14
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	0.47	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	3.2		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-02
 Client ID: MW-2
 Sample Location: 219 HUDSON ST, MANHATTAN, NY

Date Collected: 05/12/14 12:54
 Date Received: 05/12/14
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	1.0	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	1.0	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	1.7	J	ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	1.9	J	ug/l	2.5	0.70	1
n-Propylbenzene	3.3		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	2.3		ug/l	2.0	0.70	1

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-02
 Client ID: MW-2
 Sample Location: 219 HUDSON ST, MANHATTAN, NY

Date Collected: 05/12/14 12:54
 Date Received: 05/12/14
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	0.67	J	ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/15/14 11:53
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG689883-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
2-Chloroethylvinyl ether	ND		ug/l	10	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/15/14 11:53
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG689883-3					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Diisopropyl Ether	ND		ug/l	2.0	0.65
Tert-Butyl Alcohol	ND		ug/l	10	1.2
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Acrolein	ND		ug/l	5.0	0.63
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 05/15/14 11:53
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG689883-3					
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Ethyl Acetate	ND		ug/l	10	0.70
Cyclohexane	ND		ug/l	10	0.24
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.5	0.70
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28
1,4-Dioxane	ND		ug/l	250	41.
Freon-113	ND		ug/l	2.5	0.70
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Tetrahydrofuran	ND		ug/l	5.0	1.5
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.29

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/15/14 11:53
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG689883-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG689883-1 WG689883-2								
Methylene chloride	101		98		70-130	3		20
1,1-Dichloroethane	101		97		70-130	4		20
Chloroform	107		102		70-130	5		20
2-Chloroethylvinyl ether	68	Q	66	Q	70-130	3		20
Carbon tetrachloride	113		108		63-132	5		20
1,2-Dichloropropane	95		92		70-130	3		20
Dibromochloromethane	102		100		63-130	2		20
1,1,2-Trichloroethane	93		94		70-130	1		20
Tetrachloroethene	107		104		70-130	3		20
Chlorobenzene	102		101		75-130	1		20
Trichlorofluoromethane	112		108		62-150	4		20
1,2-Dichloroethane	104		102		70-130	2		20
1,1,1-Trichloroethane	115		112		67-130	3		20
Bromodichloromethane	105		102		67-130	3		20
trans-1,3-Dichloropropene	85		82		70-130	4		20
cis-1,3-Dichloropropene	101		98		70-130	3		20
1,1-Dichloropropene	102		97		70-130	5		20
Bromoform	99		100		54-136	1		20
1,1,2,2-Tetrachloroethane	89		87		67-130	2		20
Benzene	99		96		70-130	3		20
Toluene	101		98		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG689883-1 WG689883-2								
Ethylbenzene	103		102		70-130	1		20
Chloromethane	88		78		64-130	12		20
Bromomethane	99		100		39-139	1		20
Vinyl chloride	104		99		55-140	5		20
Chloroethane	107		103		55-138	4		20
1,1-Dichloroethene	102		97		61-145	5		20
trans-1,2-Dichloroethene	100		97		70-130	3		20
Trichloroethene	104		100		70-130	4		20
1,2-Dichlorobenzene	101		99		70-130	2		20
1,3-Dichlorobenzene	103		100		70-130	3		20
1,4-Dichlorobenzene	103		99		70-130	4		20
Methyl tert butyl ether	98		96		63-130	2		20
p/m-Xylene	105		103		70-130	2		20
o-Xylene	106		103		70-130	3		20
cis-1,2-Dichloroethene	102		95		70-130	7		20
Dibromomethane	101		98		70-130	3		20
1,2,3-Trichloropropane	92		90		64-130	2		20
Acrylonitrile	81		79		70-130	3		20
Diisopropyl Ether	87		85		70-130	2		20
Tert-Butyl Alcohol	116		112		70-130	4		20
Styrene	105		103		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG689883-1 WG689883-2								
Dichlorodifluoromethane	95		90		36-147	5		20
Acetone	82		70		58-148	16		20
Carbon disulfide	89		87		51-130	2		20
2-Butanone	53	Q	51	Q	63-138	4		20
Vinyl acetate	83		78		70-130	6		20
4-Methyl-2-pentanone	82		79		59-130	4		20
2-Hexanone	72		70		57-130	3		20
Acrolein	97		96		40-160	1		20
Bromochloromethane	105		102		70-130	3		20
2,2-Dichloropropane	120		110		63-133	9		20
1,2-Dibromoethane	96		97		70-130	1		20
1,3-Dichloropropane	93		92		70-130	1		20
1,1,1,2-Tetrachloroethane	115		112		64-130	3		20
Bromobenzene	105		103		70-130	2		20
n-Butylbenzene	102		97		53-136	5		20
sec-Butylbenzene	103		98		70-130	5		20
tert-Butylbenzene	106		101		70-130	5		20
o-Chlorotoluene	103		99		70-130	4		20
p-Chlorotoluene	105		102		70-130	3		20
1,2-Dibromo-3-chloropropane	80		82		41-144	2		20
Hexachlorobutadiene	102		95		63-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG689883-1 WG689883-2								
Isopropylbenzene	104		102		70-130	2		20
p-Isopropyltoluene	106		101		70-130	5		20
Naphthalene	86		82		70-130	5		20
n-Propylbenzene	104		100		69-130	4		20
1,2,3-Trichlorobenzene	94		89		70-130	5		20
1,2,4-Trichlorobenzene	94		91		70-130	3		20
1,3,5-Trimethylbenzene	106		102		64-130	4		20
1,2,4-Trimethylbenzene	104		100		70-130	4		20
Methyl Acetate	81		86		70-130	6		20
Ethyl Acetate	88		87		70-130	1		20
Cyclohexane	88		86		70-130	2		20
Ethyl-Tert-Butyl-Ether	94		90		70-130	4		20
Tertiary-Amyl Methyl Ether	86		86		66-130	0		20
1,4-Dioxane	86		85		56-162	1		20
Freon-113	118		114		70-130	3		20
p-Diethylbenzene	106		101		70-130	5		20
p-Ethyltoluene	106		101		70-130	5		20
1,2,4,5-Tetramethylbenzene	105		99		70-130	6		20
Ethyl ether	104		104		59-134	0		20
trans-1,4-Dichloro-2-butene	90		87		70-130	3		20
Methyl cyclohexane	104		98		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG689883-1 WG689883-2

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
1,2-Dichloroethane-d4	104		104		70-130
Toluene-d8	96		97		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	107		107		70-130

SEMIVOLATILES

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-01
 Client ID: MW-1
 Sample Location: 219 HUDSON ST., MANHATTAN, NY
 Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 05/18/14 01:13
 Analyst: JB

Date Collected: 05/12/14 11:24
 Date Received: 05/12/14
 Field Prep: See Narrative
 Extraction Method: EPA 3510C
 Extraction Date: 05/16/14 14:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	9.1	B	ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1
Acetophenone	ND		ug/l	5.0	0.43	1

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-01
 Client ID: MW-1
 Sample Location: 219 HUDSON ST., MANHATTAN, NY

Date Collected: 05/12/14 11:24
 Date Received: 05/12/14
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54	1
2-Chlorophenol	ND		ug/l	2.0	0.58	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.56	1
2,4-Dimethylphenol	ND		ug/l	5.0	0.58	1
2-Nitrophenol	ND		ug/l	10	1.0	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4	1
Phenol	ND		ug/l	5.0	0.27	1
2-Methylphenol	ND		ug/l	5.0	0.70	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	88		10-120
4-Terphenyl-d14	88		41-149

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-01 D
 Client ID: MW-1
 Sample Location: 219 HUDSON ST., MANHATTAN, NY
 Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 05/16/14 14:55
 Analyst: MW

Date Collected: 05/12/14 11:24
 Date Received: 05/12/14
 Field Prep: See Narrative
 Extraction Method: EPA 3510C
 Extraction Date: 05/14/14 11:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.64	10
2-Chloronaphthalene	ND		ug/l	2.0	0.66	10
Fluoranthene	ND		ug/l	2.0	0.43	10
Hexachlorobutadiene	ND		ug/l	5.0	0.71	10
Naphthalene	150		ug/l	2.0	0.64	10
Benzo(a)anthracene	ND		ug/l	2.0	0.57	10
Benzo(a)pyrene	ND		ug/l	2.0	0.69	10
Benzo(b)fluoranthene	ND		ug/l	2.0	0.71	10
Benzo(k)fluoranthene	ND		ug/l	2.0	0.68	10
Chrysene	ND		ug/l	2.0	0.49	10
Acenaphthylene	ND		ug/l	2.0	0.50	10
Anthracene	ND		ug/l	2.0	0.63	10
Benzo(ghi)perylene	ND		ug/l	2.0	0.70	10
Fluorene	0.59	J	ug/l	2.0	0.57	10
Phenanthrene	0.73	J	ug/l	2.0	0.64	10
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.73	10
Indeno(1,2,3-cd)Pyrene	ND		ug/l	2.0	0.79	10
Pyrene	ND		ug/l	2.0	0.57	10
2-Methylnaphthalene	45		ug/l	2.0	0.60	10
Pentachlorophenol	4.7	J	ug/l	8.0	1.9	10
Hexachlorobenzene	ND		ug/l	8.0	0.14	10
Hexachloroethane	ND		ug/l	8.0	0.65	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	152	Q	23-120
2-Fluorobiphenyl	92		15-120
2,4,6-Tribromophenol	144	Q	10-120
4-Terphenyl-d14	118		41-149

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-02
 Client ID: MW-2
 Sample Location: 219 HUDSON ST, MANHATTAN, NY
 Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 05/18/14 01:41
 Analyst: JB

Date Collected: 05/12/14 12:54
 Date Received: 05/12/14
 Field Prep: See Narrative
 Extraction Method: EPA 3510C
 Extraction Date: 05/16/14 14:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	2.5	JB	ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1
Acetophenone	ND		ug/l	5.0	0.43	1

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-02
 Client ID: MW-2
 Sample Location: 219 HUDSON ST, MANHATTAN, NY

Date Collected: 05/12/14 12:54
 Date Received: 05/12/14
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54	1
2-Chlorophenol	ND		ug/l	2.0	0.58	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.56	1
2,4-Dimethylphenol	ND		ug/l	5.0	0.58	1
2-Nitrophenol	ND		ug/l	10	1.0	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4	1
Phenol	ND		ug/l	5.0	0.27	1
2-Methylphenol	ND		ug/l	5.0	0.70	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	87		10-120
4-Terphenyl-d14	91		41-149

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-02
 Client ID: MW-2
 Sample Location: 219 HUDSON ST, MANHATTAN, NY
 Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 05/15/14 18:04
 Analyst: MW

Date Collected: 05/12/14 12:54
 Date Received: 05/12/14
 Field Prep: See Narrative
 Extraction Method: EPA 3510C
 Extraction Date: 05/14/14 11:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	0.13	J	ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	ND		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Pentachlorophenol	ND		ug/l	0.80	0.19	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	83		41-149

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/16/14 10:11
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 05/14/14 08:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG689432-1					
Acenaphthene	ND		ug/l	0.20	0.06
2-Chloronaphthalene	ND		ug/l	0.20	0.07
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.07
Naphthalene	ND		ug/l	0.20	0.06
Benzo(a)anthracene	ND		ug/l	0.20	0.06
Benzo(a)pyrene	ND		ug/l	0.20	0.07
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07
Chrysene	ND		ug/l	0.20	0.05
Acenaphthylene	ND		ug/l	0.20	0.05
Anthracene	ND		ug/l	0.20	0.06
Benzo(ghi)perylene	ND		ug/l	0.20	0.07
Fluorene	ND		ug/l	0.20	0.06
Phenanthrene	ND		ug/l	0.20	0.06
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08
Pyrene	ND		ug/l	0.20	0.06
2-Methylnaphthalene	ND		ug/l	0.20	0.06
Pentachlorophenol	ND		ug/l	0.80	0.19
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.07

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/16/14 10:11
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 05/14/14 08:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG689432-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	86		41-149

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/17/14 19:36
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 05/16/14 14:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG690217-1					
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60
Hexachlorocyclopentadiene	ND		ug/l	20	0.58
Isophorone	ND		ug/l	5.0	0.79
Nitrobenzene	ND		ug/l	2.0	0.40
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-Ethylhexyl)phthalate	5.0		ug/l	3.0	0.93
Butyl benzyl phthalate	ND		ug/l	5.0	1.1
Di-n-butylphthalate	ND		ug/l	5.0	0.77
Di-n-octylphthalate	ND		ug/l	5.0	1.2
Diethyl phthalate	ND		ug/l	5.0	0.39
Dimethyl phthalate	ND		ug/l	5.0	0.33
Biphenyl	ND		ug/l	2.0	0.24
4-Chloroaniline	ND		ug/l	5.0	0.84
2-Nitroaniline	ND		ug/l	5.0	0.96
3-Nitroaniline	ND		ug/l	5.0	0.67
4-Nitroaniline	ND		ug/l	5.0	0.83
Dibenzofuran	ND		ug/l	2.0	0.22
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36
Acetophenone	ND		ug/l	5.0	0.43

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 05/17/14 19:36
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 05/16/14 14:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG690217-1					
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54
2-Chlorophenol	ND		ug/l	2.0	0.58
2,4-Dichlorophenol	ND		ug/l	5.0	0.56
2,4-Dimethylphenol	ND		ug/l	5.0	0.58
2-Nitrophenol	ND		ug/l	10	1.0
4-Nitrophenol	ND		ug/l	10	1.1
2,4-Dinitrophenol	ND		ug/l	20	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4
Phenol	ND		ug/l	5.0	0.27
2-Methylphenol	ND		ug/l	5.0	0.70
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75
Benzoic Acid	ND		ug/l	50	1.0
Benzyl Alcohol	ND		ug/l	2.0	0.68
Carbazole	ND		ug/l	2.0	0.37

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	82		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG689432-2 WG689432-3								
Acenaphthene	70		59		37-111	17		40
2-Chloronaphthalene	70		57		40-140	20		40
Fluoranthene	94		80		40-140	16		40
Hexachlorobutadiene	58		48		40-140	19		40
Naphthalene	68		55		40-140	21		40
Benzo(a)anthracene	101		86		40-140	16		40
Benzo(a)pyrene	88		74		40-140	17		40
Benzo(b)fluoranthene	94		79		40-140	17		40
Benzo(k)fluoranthene	90		75		40-140	18		40
Chrysene	91		76		40-140	18		40
Acenaphthylene	82		68		40-140	19		40
Anthracene	88		75		40-140	16		40
Benzo(ghi)perylene	90		76		40-140	17		40
Fluorene	78		67		40-140	15		40
Phenanthrene	80		68		40-140	16		40
Dibenzo(a,h)anthracene	98		82		40-140	18		40
Indeno(1,2,3-cd)Pyrene	90		76		40-140	17		40
Pyrene	94		80		26-127	16		40
2-Methylnaphthalene	74		60		40-140	21		40
Pentachlorophenol	116	Q	99		9-103	16		40
Hexachlorobenzene	88		74		40-140	17		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG689432-2 WG689432-3								
Hexachloroethane	69		55		40-140	23		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	49		41		21-120
Phenol-d6	37		31		10-120
Nitrobenzene-d5	99		78		23-120
2-Fluorobiphenyl	72		56		15-120
2,4,6-Tribromophenol	94		81		10-120
4-Terphenyl-d14	89		74		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG690217-2 WG690217-3								
1,2,4-Trichlorobenzene	56		59		39-98	5		30
Bis(2-chloroethyl)ether	78		78		40-140	0		30
1,2-Dichlorobenzene	57		61		40-140	7		30
1,3-Dichlorobenzene	55		58		40-140	5		30
1,4-Dichlorobenzene	56		58		36-97	4		30
3,3'-Dichlorobenzidine	93		77		40-140	19		30
2,4-Dinitrotoluene	63		64		24-96	2		30
2,6-Dinitrotoluene	85		87		40-140	2		30
4-Chlorophenyl phenyl ether	78		79		40-140	1		30
4-Bromophenyl phenyl ether	83		83		40-140	0		30
Bis(2-chloroisopropyl)ether	76		74		40-140	3		30
Bis(2-chloroethoxy)methane	83		83		40-140	0		30
Hexachlorocyclopentadiene	53		56		40-140	6		30
Isophorone	89		89		40-140	0		30
Nitrobenzene	85		84		40-140	1		30
NitrosoDiPhenylAmine(NDPA)/DPA	86		87		40-140	1		30
n-Nitrosodi-n-propylamine	85		85		29-132	0		30
Bis(2-Ethylhexyl)phthalate	96		98		40-140	2		30
Butyl benzyl phthalate	89		89		40-140	0		30
Di-n-butylphthalate	95		97		40-140	2		30
Di-n-octylphthalate	106		106		40-140	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG690217-2 WG690217-3								
Diethyl phthalate	87		87		40-140	0		30
Dimethyl phthalate	85		84		40-140	1		30
Biphenyl	73		74			1		30
4-Chloroaniline	82		68		40-140	19		30
2-Nitroaniline	83		82		52-143	1		30
3-Nitroaniline	81		74		25-145	9		30
4-Nitroaniline	92		91		51-143	1		30
Dibenzofuran	79		78		40-140	1		30
1,2,4,5-Tetrachlorobenzene	64		66		2-134	3		30
Acetophenone	89		90		39-129	1		30
2,4,6-Trichlorophenol	84		88		30-130	5		30
P-Chloro-M-Cresol	92		94		23-97	2		30
2-Chlorophenol	79		78		27-123	1		30
2,4-Dichlorophenol	86		86		30-130	0		30
2,4-Dimethylphenol	77		88		30-130	13		30
2-Nitrophenol	84		86		30-130	2		30
4-Nitrophenol	53		54		10-80	2		30
2,4-Dinitrophenol	62		63		20-130	2		30
4,6-Dinitro-o-cresol	68		70		20-164	3		30
Phenol	42		43		12-110	2		30
2-Methylphenol	79		78		30-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG690217-2 WG690217-3								
3-Methylphenol/4-Methylphenol	76		76		30-130	0		30
2,4,5-Trichlorophenol	92		89		30-130	3		30
Benzoic Acid	31		30			3		30
Benzyl Alcohol	67		69			3		30
Carbazole	90		90		55-144	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	56		56		21-120
Phenol-d6	43		41		10-120
Nitrobenzene-d5	89		87		23-120
2-Fluorobiphenyl	77		75		15-120
2,4,6-Tribromophenol	84		82		10-120
4-Terphenyl-d14	82		80		41-149

PCBS

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-01
 Client ID: MW-1
 Sample Location: 219 HUDSON ST., MANHATTAN, NY
 Matrix: Water
 Analytical Method: 1,8082A
 Analytical Date: 05/16/14 14:12
 Analyst: JW

Date Collected: 05/12/14 11:24
 Date Received: 05/12/14
 Field Prep: See Narrative
 Extraction Method: EPA 3510C
 Extraction Date: 05/16/14 01:44
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 05/16/14
 Cleanup Method2: EPA 3660B
 Cleanup Date2: 05/16/14

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	50		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	51		30-150	A

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-02
 Client ID: MW-2
 Sample Location: 219 HUDSON ST, MANHATTAN, NY
 Matrix: Water
 Analytical Method: 1,8082A
 Analytical Date: 05/16/14 14:26
 Analyst: JW

Date Collected: 05/12/14 12:54
 Date Received: 05/12/14
 Field Prep: See Narrative
 Extraction Method: EPA 3510C
 Extraction Date: 05/16/14 01:44
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 05/16/14
 Cleanup Method2: EPA 3660B
 Cleanup Date2: 05/16/14

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	57		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	53		30-150	A

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/16/14 16:54
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 05/16/14 01:44
Cleanup Method1: EPA 3665A
Cleanup Date1: 05/16/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 05/16/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG690025-1						
Aroclor 1016	ND		ug/l	0.083	0.055	A
Aroclor 1221	ND		ug/l	0.083	0.053	A
Aroclor 1232	ND		ug/l	0.083	0.031	A
Aroclor 1242	ND		ug/l	0.083	0.060	A
Aroclor 1248	ND		ug/l	0.083	0.051	A
Aroclor 1254	ND		ug/l	0.083	0.034	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.029	A
Aroclor 1268	ND		ug/l	0.083	0.038	A
PCBs, Total	ND		ug/l	0.083	0.029	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	100		30-150	B
Decachlorobiphenyl	102		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG690025-2 WG690025-3									
Aroclor 1016	79		88		40-140	11		50	A
Aroclor 1260	85		98		40-140	14		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		68		30-150	B
Decachlorobiphenyl	80		94		30-150	B
2,4,5,6-Tetrachloro-m-xylene	57		65		30-150	A
Decachlorobiphenyl	81		96		30-150	A

PESTICIDES

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-01
 Client ID: MW-1
 Sample Location: 219 HUDSON ST., MANHATTAN, NY
 Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 05/19/14 10:45
 Analyst: GP

Date Collected: 05/12/14 11:24
 Date Received: 05/12/14
 Field Prep: See Narrative
 Extraction Method: EPA 3510C
 Extraction Date: 05/16/14 01:43
 Cleanup Method1: EPA 3620B
 Cleanup Date1: 05/16/14

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	116		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-02
Client ID: MW-2
Sample Location: 219 HUDSON ST, MANHATTAN, NY
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/19/14 10:58
Analyst: GP

Date Collected: 05/12/14 12:54
Date Received: 05/12/14
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 05/16/14 01:43
Cleanup Method1: EPA 3620B
Cleanup Date1: 05/16/14

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	127		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	96		30-150	B

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/19/14 10:06
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 05/16/14 01:43
Cleanup Method1: EPA 3620B
Cleanup Date1: 05/16/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG690028-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.004	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.006	A
Heptachlor	ND		ug/l	0.020	0.003	A
Aldrin	ND		ug/l	0.020	0.002	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin ketone	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.004	A
4,4'-DDE	ND		ug/l	0.040	0.004	A
4,4'-DDD	ND		ug/l	0.040	0.005	A
4,4'-DDT	ND		ug/l	0.040	0.004	A
Endosulfan I	ND		ug/l	0.020	0.003	A
Endosulfan II	ND		ug/l	0.040	0.005	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	A
Methoxychlor	ND		ug/l	0.200	0.007	A
Toxaphene	ND		ug/l	0.200	0.063	A
cis-Chlordane	ND		ug/l	0.020	0.007	A
trans-Chlordane	ND		ug/l	0.020	0.006	A
Chlordane	ND		ug/l	0.200	0.046	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	148		30-150	A
Decachlorobiphenyl	111		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG690028-2 WG690028-3									
Delta-BHC	104		92		30-150	12		20	A
Lindane	120		110		30-150	9		20	A
Alpha-BHC	111		100		30-150	11		20	A
Beta-BHC	100		92		30-150	8		20	A
Heptachlor	98		92		30-150	6		20	A
Aldrin	98		95		30-150	3		20	A
Heptachlor epoxide	122		110		30-150	10		20	A
Endrin	143		125		30-150	13		20	A
Endrin ketone	129		119		30-150	8		20	A
Dieldrin	134		121		30-150	10		20	A
4,4'-DDE	134		118		30-150	13		20	A
4,4'-DDD	130		115		30-150	12		20	A
4,4'-DDT	143		126		30-150	13		20	A
Endosulfan I	138		124		30-150	11		20	A
Endosulfan II	131		118		30-150	10		20	A
Endosulfan sulfate	125		112		30-150	11		20	A
Methoxychlor	127		115		30-150	10		20	A
cis-Chlordane	131		118		30-150	10		20	A
trans-Chlordane	117		107		30-150	9		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG690028-2 WG690028-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	79		79		30-150	A
Decachlorobiphenyl	159	Q	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		71		30-150	B
Decachlorobiphenyl	93		105		30-150	B

METALS

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-01
Client ID: MW-1
Sample Location: 219 HUDSON ST., MANHATTAN, NY
Matrix: Water

Date Collected: 05/12/14 11:24
Date Received: 05/12/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0202		mg/l	0.0100	0.00200	1	05/13/14 15:27	05/14/14 11:01	EPA 3005A	1,6020A	KL
Antimony, Total	0.00141	J	mg/l	0.00300	0.00010	1	05/13/14 15:27	05/14/14 11:01	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00552		mg/l	0.00050	0.00010	1	05/13/14 15:27	05/14/14 11:01	EPA 3005A	1,6020A	KL
Barium, Total	0.7692		mg/l	0.01000	0.00200	20	05/13/14 15:27	05/14/14 10:57	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/13/14 15:27	05/14/14 11:01	EPA 3005A	1,6020A	KL
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/13/14 15:27	05/14/14 11:01	EPA 3005A	1,6020A	KL
Calcium, Total	221.		mg/l	2.00	0.640	20	05/13/14 15:27	05/14/14 10:57	EPA 3005A	1,6020A	KL
Chromium, Total	0.00203		mg/l	0.00100	0.00020	1	05/13/14 15:27	05/14/14 11:01	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00019	J	mg/l	0.00020	0.00010	1	05/13/14 15:27	05/14/14 11:01	EPA 3005A	1,6020A	KL
Copper, Total	0.00025	J	mg/l	0.00100	0.00010	1	05/13/14 15:27	05/14/14 11:01	EPA 3005A	1,6020A	KL
Iron, Total	12.0		mg/l	0.0500	0.0130	1	05/13/14 15:27	05/14/14 11:01	EPA 3005A	1,6020A	KL
Lead, Total	0.00751		mg/l	0.00100	0.00020	1	05/13/14 15:27	05/14/14 11:01	EPA 3005A	1,6020A	KL
Magnesium, Total	63.1		mg/l	1.40	0.0486	20	05/13/14 15:27	05/14/14 10:57	EPA 3005A	1,6020A	KL
Manganese, Total	1.902		mg/l	0.01000	0.00200	20	05/13/14 15:27	05/14/14 10:57	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	05/13/14 10:44	05/13/14 16:13	EPA 7470A	1,7470A	AK
Nickel, Total	0.00057		mg/l	0.00050	0.00010	1	05/13/14 15:27	05/14/14 11:01	EPA 3005A	1,6020A	KL
Potassium, Total	20.2		mg/l	0.100	0.0270	1	05/13/14 15:27	05/14/14 11:01	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	05/13/14 15:27	05/14/14 11:01	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	05/13/14 15:27	05/14/14 11:01	EPA 3005A	1,6020A	KL
Sodium, Total	578.		mg/l	2.00	0.300	20	05/13/14 15:27	05/14/14 10:57	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00050	0.00003	1	05/13/14 15:27	05/14/14 11:01	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00243	J	mg/l	0.00500	0.00010	1	05/13/14 15:27	05/14/14 11:01	EPA 3005A	1,6020A	KL
Zinc, Total	0.01533		mg/l	0.01000	0.00120	1	05/13/14 15:27	05/14/14 11:01	EPA 3005A	1,6020A	KL
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.00581	J	mg/l	0.0100	0.00200	1	05/15/14 15:28	05/16/14 11:00	EPA 3005A	1,6020A	KL
Antimony, Dissolved	0.00601		mg/l	0.00100	0.00010	1	05/15/14 15:28	05/16/14 11:00	EPA 3005A	1,6020A	KL
Arsenic, Dissolved	0.00572		mg/l	0.00050	0.00020	1	05/15/14 15:28	05/16/14 11:00	EPA 3005A	1,6020A	KL
Barium, Dissolved	0.8028		mg/l	0.01000	0.00200	20	05/15/14 15:28	05/16/14 10:57	EPA 3005A	1,6020A	KL
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/15/14 15:28	05/16/14 11:00	EPA 3005A	1,6020A	KL
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/15/14 15:28	05/16/14 11:00	EPA 3005A	1,6020A	KL



Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-01
Client ID: MW-1
Sample Location: 219 HUDSON ST., MANHATTAN, NY
Matrix: Water

Date Collected: 05/12/14 11:24
Date Received: 05/12/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	220.		mg/l	2.00	0.640	20	05/15/14 15:28	05/16/14 10:57	EPA 3005A	1,6020A	KL
Chromium, Dissolved	0.00223		mg/l	0.00100	0.00020	1	05/15/14 15:28	05/16/14 11:00	EPA 3005A	1,6020A	KL
Cobalt, Dissolved	0.00019	J	mg/l	0.00020	0.00010	1	05/15/14 15:28	05/16/14 11:00	EPA 3005A	1,6020A	KL
Copper, Dissolved	0.00029	J	mg/l	0.00150	0.00010	1	05/15/14 15:28	05/16/14 11:00	EPA 3005A	1,6020A	KL
Iron, Dissolved	12.1		mg/l	0.0500	0.0130	1	05/15/14 15:28	05/16/14 11:00	EPA 3005A	1,6020A	KL
Lead, Dissolved	0.00781		mg/l	0.00100	0.00020	1	05/15/14 15:28	05/16/14 11:00	EPA 3005A	1,6020A	KL
Magnesium, Dissolved	69.3		mg/l	1.40	0.460	20	05/15/14 15:28	05/16/14 10:57	EPA 3005A	1,6020A	KL
Manganese, Dissolved	1.962		mg/l	0.01000	0.00200	20	05/15/14 15:28	05/16/14 10:57	EPA 3005A	1,6020A	KL
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	05/13/14 10:44	05/13/14 17:05	EPA 7470A	1,7470A	AK
Nickel, Dissolved	0.00208		mg/l	0.00050	0.00010	1	05/15/14 15:28	05/16/14 11:00	EPA 3005A	1,6020A	KL
Potassium, Dissolved	21.9		mg/l	0.100	0.0270	1	05/15/14 15:28	05/16/14 11:00	EPA 3005A	1,6020A	KL
Selenium, Dissolved	ND		mg/l	0.00500	0.00030	1	05/15/14 15:28	05/16/14 11:00	EPA 3005A	1,6020A	KL
Silver, Dissolved	ND		mg/l	0.00040	0.00010	1	05/15/14 15:28	05/16/14 11:00	EPA 3005A	1,6020A	KL
Sodium, Dissolved	614.		mg/l	2.00	0.300	20	05/15/14 15:28	05/16/14 10:57	EPA 3005A	1,6020A	KL
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	05/15/14 15:28	05/16/14 11:00	EPA 3005A	1,6020A	KL
Vanadium, Dissolved	0.00210	J	mg/l	0.00500	0.00010	1	05/15/14 15:28	05/16/14 11:00	EPA 3005A	1,6020A	KL
Zinc, Dissolved	0.01267		mg/l	0.01000	0.00120	1	05/15/14 15:28	05/16/14 11:00	EPA 3005A	1,6020A	KL

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-02
 Client ID: MW-2
 Sample Location: 219 HUDSON ST, MANHATTAN, NY
 Matrix: Water

Date Collected: 05/12/14 12:54
 Date Received: 05/12/14
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0185		mg/l	0.0100	0.00200	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Antimony, Total	0.00173	J	mg/l	0.00300	0.00010	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00726		mg/l	0.00050	0.00010	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Barium, Total	0.09913		mg/l	0.00050	0.00010	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Cadmium, Total	0.00008	J	mg/l	0.00020	0.00005	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Calcium, Total	117.		mg/l	2.00	0.640	20	05/13/14 15:27	05/14/14 11:05	EPA 3005A	1,6020A	KL
Chromium, Total	0.00110		mg/l	0.00100	0.00020	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00073		mg/l	0.00020	0.00010	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Copper, Total	0.01336		mg/l	0.00100	0.00010	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Iron, Total	1.76		mg/l	0.0500	0.0130	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Lead, Total	0.00526		mg/l	0.00100	0.00020	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Magnesium, Total	22.9		mg/l	1.40	0.0486	20	05/13/14 15:27	05/14/14 11:05	EPA 3005A	1,6020A	KL
Manganese, Total	0.03981		mg/l	0.00050	0.00010	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	05/13/14 10:44	05/13/14 16:19	EPA 7470A	1,7470A	AK
Nickel, Total	0.00423		mg/l	0.00050	0.00010	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Potassium, Total	24.0		mg/l	0.100	0.0270	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Selenium, Total	0.00356	J	mg/l	0.00500	0.00030	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Sodium, Total	507.		mg/l	2.00	0.300	20	05/13/14 15:27	05/14/14 11:05	EPA 3005A	1,6020A	KL
Thallium, Total	0.00003	J	mg/l	0.00050	0.00003	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00195	J	mg/l	0.00500	0.00010	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Zinc, Total	0.03418		mg/l	0.01000	0.00120	1	05/13/14 15:27	05/14/14 11:09	EPA 3005A	1,6020A	KL
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.00682	J	mg/l	0.0100	0.00200	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL
Antimony, Dissolved	0.00263		mg/l	0.00100	0.00010	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL
Arsenic, Dissolved	0.00533		mg/l	0.00050	0.00020	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL
Barium, Dissolved	0.1092		mg/l	0.00050	0.00010	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL
Cadmium, Dissolved	0.00011	J	mg/l	0.00020	0.00005	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL



Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

SAMPLE RESULTS

Lab ID: L1410117-02
Client ID: MW-2
Sample Location: 219 HUDSON ST, MANHATTAN, NY
Matrix: Water

Date Collected: 05/12/14 12:54
Date Received: 05/12/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	121.		mg/l	2.00	0.640	20	05/15/14 15:28	05/16/14 11:26	EPA 3005A	1,6020A	KL
Chromium, Dissolved	0.00095	J	mg/l	0.00100	0.00020	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL
Cobalt, Dissolved	0.00089		mg/l	0.00020	0.00010	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL
Copper, Dissolved	0.00427		mg/l	0.00150	0.00010	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL
Iron, Dissolved	1.04		mg/l	0.0500	0.0130	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL
Lead, Dissolved	0.00168		mg/l	0.00100	0.00020	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL
Magnesium, Dissolved	19.8		mg/l	1.40	0.460	20	05/15/14 15:28	05/16/14 11:26	EPA 3005A	1,6020A	KL
Manganese, Dissolved	0.05905		mg/l	0.00050	0.00010	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	05/13/14 10:44	05/13/14 17:07	EPA 7470A	1,7470A	AK
Nickel, Dissolved	0.00476		mg/l	0.00050	0.00010	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL
Potassium, Dissolved	25.6		mg/l	0.100	0.0270	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL
Selenium, Dissolved	0.00361	J	mg/l	0.00500	0.00030	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL
Silver, Dissolved	ND		mg/l	0.00040	0.00010	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL
Sodium, Dissolved	530.		mg/l	2.00	0.300	20	05/15/14 15:28	05/16/14 11:26	EPA 3005A	1,6020A	KL
Thallium, Dissolved	0.00004	J	mg/l	0.00050	0.00003	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL
Vanadium, Dissolved	0.00126	J	mg/l	0.00500	0.00010	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL
Zinc, Dissolved	0.04293		mg/l	0.01000	0.00120	1	05/15/14 15:28	05/16/14 11:29	EPA 3005A	1,6020A	KL



Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG689174-1									
Mercury, Total	ND	mg/l	0.00020	0.00006	1	05/13/14 10:44	05/13/14 16:03	1,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01-02 Batch: WG689193-1									
Mercury, Dissolved	ND	mg/l	0.00020	0.00006	1	05/13/14 10:44	05/13/14 16:44	1,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG689270-1									
Aluminum, Total	ND	mg/l	0.0100	0.00200	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Antimony, Total	0.00021 J	mg/l	0.00300	0.00010	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Arsenic, Total	ND	mg/l	0.00050	0.00010	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Barium, Total	ND	mg/l	0.00050	0.00010	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Beryllium, Total	ND	mg/l	0.00050	0.00010	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Cadmium, Total	ND	mg/l	0.00020	0.00005	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Calcium, Total	ND	mg/l	0.100	0.0320	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Chromium, Total	0.00035 J	mg/l	0.00100	0.00020	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Cobalt, Total	ND	mg/l	0.00020	0.00010	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Copper, Total	0.00080 J	mg/l	0.00100	0.00010	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Iron, Total	ND	mg/l	0.0500	0.0130	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Lead, Total	ND	mg/l	0.00100	0.00020	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Magnesium, Total	ND	mg/l	0.0700	0.00243	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Manganese, Total	ND	mg/l	0.00050	0.00010	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Nickel, Total	ND	mg/l	0.00050	0.00010	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Potassium, Total	0.0328 J	mg/l	0.100	0.0270	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL



Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Method Blank Analysis Batch Quality Control

Selenium, Total	ND		mg/l	0.00500	0.00030	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Sodium, Total	ND		mg/l	0.100	0.0150	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Thallium, Total	ND		mg/l	0.00050	0.00003	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL
Zinc, Total	0.00303	J	mg/l	0.01000	0.00120	1	05/13/14 15:27	05/14/14 09:55	1,6020A	KL

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01-02 Batch: WG689913-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00200	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Antimony, Dissolved	0.00020	J	mg/l	0.00100	0.00010	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Arsenic, Dissolved	ND		mg/l	0.00050	0.00020	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Barium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Calcium, Dissolved	ND		mg/l	0.100	0.0320	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Chromium, Dissolved	0.00035	J	mg/l	0.00100	0.00020	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Cobalt, Dissolved	ND		mg/l	0.00020	0.00010	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Copper, Dissolved	0.00101	J	mg/l	0.00150	0.00010	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Iron, Dissolved	ND		mg/l	0.0500	0.0130	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Magnesium, Dissolved	ND		mg/l	0.0700	0.0230	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Manganese, Dissolved	ND		mg/l	0.00050	0.00010	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Nickel, Dissolved	ND		mg/l	0.00050	0.00010	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Potassium, Dissolved	ND		mg/l	0.100	0.0270	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Selenium, Dissolved	ND		mg/l	0.00500	0.00030	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Silver, Dissolved	ND		mg/l	0.00040	0.00010	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Sodium, Dissolved	ND		mg/l	0.100	0.0150	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Vanadium, Dissolved	ND		mg/l	0.00500	0.00010	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL
Zinc, Dissolved	0.00220	J	mg/l	0.01000	0.00120	1	05/15/14 15:28	05/16/14 10:39	1,6020A	KL

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG689174-2								
Mercury, Total	108		-		80-120	-		
Dissolved Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG689193-2								
Mercury, Dissolved	107		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG689270-2					
Aluminum, Total	110	-	80-120	-	
Antimony, Total	107	-	80-120	-	
Arsenic, Total	111	-	80-120	-	
Barium, Total	107	-	80-120	-	
Beryllium, Total	112	-	80-120	-	
Cadmium, Total	110	-	80-120	-	
Calcium, Total	108	-	80-120	-	
Chromium, Total	108	-	80-120	-	
Cobalt, Total	109	-	80-120	-	
Copper, Total	108	-	80-120	-	
Iron, Total	105	-	80-120	-	
Lead, Total	110	-	80-120	-	
Magnesium, Total	112	-	80-120	-	
Manganese, Total	107	-	80-120	-	
Nickel, Total	107	-	80-120	-	
Potassium, Total	107	-	80-120	-	
Selenium, Total	118	-	80-120	-	
Silver, Total	102	-	80-120	-	
Sodium, Total	108	-	80-120	-	
Thallium, Total	102	-	80-120	-	
Vanadium, Total	112	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG689270-2					
Zinc, Total	116	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG689913-2					
Aluminum, Dissolved	92	-	80-120	-	
Antimony, Dissolved	95	-	80-120	-	
Arsenic, Dissolved	91	-	80-120	-	
Barium, Dissolved	92	-	80-120	-	
Beryllium, Dissolved	97	-	80-120	-	
Cadmium, Dissolved	102	-	80-120	-	
Calcium, Dissolved	97	-	80-120	-	
Chromium, Dissolved	90	-	80-120	-	
Cobalt, Dissolved	93	-	80-120	-	
Copper, Dissolved	90	-	80-120	-	
Iron, Dissolved	96	-	80-120	-	
Lead, Dissolved	98	-	80-120	-	
Magnesium, Dissolved	108	-	80-120	-	
Manganese, Dissolved	92	-	80-120	-	
Nickel, Dissolved	91	-	80-120	-	
Potassium, Dissolved	105	-	80-120	-	
Selenium, Dissolved	97	-	80-120	-	
Silver, Dissolved	92	-	80-120	-	
Sodium, Dissolved	116	-	80-120	-	
Thallium, Dissolved	90	-	80-120	-	
Vanadium, Dissolved	94	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG689913-2					
Zinc, Dissolved	100	-	80-120	-	

Matrix Spike Analysis Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG689174-4 QC Sample: L1410076-02 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00500	100	-	-	-	-	75-125	-	-	20
Dissolved Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG689193-4 QC Sample: L1409934-01 Client ID: MS Sample												
Mercury, Dissolved	ND	0.005	0.00518	104	-	-	-	-	75-125	-	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG689270-3 WG689270-4 QC Sample: L1410116-02 Client ID: MS Sample									
Aluminum, Total	0.030	2	2.12	104	2.14	106	75-125	1	20
Antimony, Total	0.0049	0.5	0.4533	90	0.4760	94	75-125	5	20
Arsenic, Total	0.0006	0.12	0.1269	105	0.1312	109	75-125	3	20
Barium, Total	0.0275	2	2.052	101	2.071	102	75-125	1	20
Beryllium, Total	ND	0.05	0.05390	108	0.05384	108	75-125	0	20
Cadmium, Total	ND	0.051	0.05684	111	0.05790	114	75-125	2	20
Calcium, Total	146.	10	106	0	Q 122	0	Q 75-125	14	20
Chromium, Total	0.0005J	0.2	0.2039	102	0.2049	102	75-125	0	20
Cobalt, Total	ND	0.5	0.5139	103	0.5174	103	75-125	1	20
Copper, Total	0.0008J	0.25	0.2490	100	0.2514	100	75-125	1	20
Iron, Total	0.231	1	1.23	100	1.26	103	75-125	2	20
Lead, Total	ND	0.51	0.5372	105	0.5424	106	75-125	1	20
Magnesium, Total	30.5	10	40.6	101	39.6	91	75-125	2	20
Manganese, Total	0.02046	0.5	0.5253	101	0.5290	102	75-125	1	20
Nickel, Total	0.0003J	0.5	0.4944	99	0.5086	102	75-125	3	20
Potassium, Total	0.600	10	7.16	66	Q 5.15	46	Q 75-125	33	Q 20
Selenium, Total	ND	0.12	0.132	110	0.136	113	75-125	3	20
Silver, Total	ND	0.05	0.04896	98	0.04937	99	75-125	1	20
Sodium, Total	7.74	10	9.11	14	Q 8.47	7	Q 75-125	7	20
Thallium, Total	ND	0.12	0.1181	98	0.1184	99	75-125	0	20
Vanadium, Total	ND	0.5	0.5353	107	0.5300	106	75-125	1	20



Matrix Spike Analysis Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG689270-3 WG689270-4 QC Sample: L1410116-02 Client ID: MS Sample									
Zinc, Total	0.0048J	0.5	0.5385	108	0.5550	111	75-125	3	20

Matrix Spike Analysis Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG689913-4 QC Sample: L1410117-01 Client ID: MW-1									
Aluminum, Dissolved	0.00581J	2	2.48	124	-	-	75-125	-	20
Antimony, Dissolved	0.00601	0.5	0.5918	117	-	-	75-125	-	20
Arsenic, Dissolved	0.00572	0.12	0.1627	131	Q	-	75-125	-	20
Barium, Dissolved	0.8028	2	3.472	133	Q	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.06260	125	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.07156	140	Q	-	75-125	-	20
Calcium, Dissolved	220.	10	208	0	Q	-	75-125	-	20
Chromium, Dissolved	0.00223	0.2	0.2600	129	Q	-	75-125	-	20
Cobalt, Dissolved	0.00019J	0.5	0.6480	130	Q	-	75-125	-	20
Copper, Dissolved	0.00029J	0.25	0.3242	130	Q	-	75-125	-	20
Iron, Dissolved	12.1	1	15.7	360	Q	-	75-125	-	20
Lead, Dissolved	0.00781	0.51	0.6908	134	Q	-	75-125	-	20
Magnesium, Dissolved	69.3	10	87.5	182	Q	-	75-125	-	20
Manganese, Dissolved	1.962	0.5	2.936	195	Q	-	75-125	-	20
Nickel, Dissolved	0.00208	0.5	0.6420	128	Q	-	75-125	-	20
Potassium, Dissolved	21.9	10	13.5	0	Q	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.122	102	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05944	119	-	-	75-125	-	20
Sodium, Dissolved	614.	10	702	880	Q	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1448	121	-	-	75-125	-	20
Vanadium, Dissolved	0.00210J	0.5	0.6738	135	Q	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG689913-4 QC Sample: L1410117-01 Client ID: MW-1									
Zinc, Dissolved	0.01267	0.5	0.6806	134	Q	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG689174-3 QC Sample: L1410076-02 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Dissolved Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG689193-3 QC Sample: L1409934-01 Client ID: DUP Sample						
Mercury, Dissolved	ND	ND	mg/l	NC		20
Dissolved Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG689913-3 QC Sample: L1410117-01 Client ID: MW-1						
Barium, Dissolved	0.8028	0.9902	mg/l	21	Q	20
Calcium, Dissolved	220.	221	mg/l	0		20
Magnesium, Dissolved	69.3	82.7	mg/l	18		20
Manganese, Dissolved	1.962	2.318	mg/l	17		20
Sodium, Dissolved	614.	702	mg/l	13		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: Not Specified
Project Number: 41.0162191.00

Lab Number: L1410117
Report Date: 05/19/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG689913-3 QC Sample: L1410117-01 Client ID: MW-1					
Aluminum, Dissolved	0.00581J	0.00531J	mg/l	NC	20
Antimony, Dissolved	0.00601	0.00345	mg/l	54	20
Arsenic, Dissolved	0.00572	0.00588	mg/l	3	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Chromium, Dissolved	0.00223	0.00228	mg/l	2	20
Cobalt, Dissolved	0.00019J	0.00022	mg/l	NC	20
Copper, Dissolved	0.00029J	0.00034J	mg/l	NC	20
Iron, Dissolved	12.1	12.7	mg/l	5	20
Lead, Dissolved	0.00781	0.00814	mg/l	4	20
Nickel, Dissolved	0.00208	0.00203	mg/l	2	20
Potassium, Dissolved	21.9	22.5	mg/l	3	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Thallium, Dissolved	ND	ND	mg/l	NC	20
Vanadium, Dissolved	0.00210J	0.00227J	mg/l	NC	20
Zinc, Dissolved	0.01267	0.01320	mg/l	4	20

Project Name: Not Specified
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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1410117-01A	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1410117-01B	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1410117-01C	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1410117-01D	Amber 1000ml unpreserved	A	7	4.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1410117-01E	Amber 1000ml unpreserved	A	7	4.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1410117-01F	Amber 1000ml unpreserved	A	7	4.1	Y	Absent	NYTCL-8082-1200ML(7)
L1410117-01G	Amber 1000ml unpreserved	A	7	4.1	Y	Absent	NYTCL-8082-1200ML(7)
L1410117-01H	Amber 500ml unpreserved	A	7	4.1	Y	Absent	NYTCL-8081(7)
L1410117-01I	Amber 500ml unpreserved	A	7	4.1	Y	Absent	NYTCL-8081(7)
L1410117-01J	Plastic 500ml HNO3 preserved	A	<2	4.1	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1410117-01K	Plastic 500ml HNO3 preserved	A	<2	4.1	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1410117-02A	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1410117-02B	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days



Project Name: Not Specified
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Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1410117-02C	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1410117-02D	Amber 1000ml unpreserved	A	7	4.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1410117-02E	Amber 1000ml unpreserved	A	7	4.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1410117-02F	Amber 1000ml unpreserved	A	7	4.1	Y	Absent	NYTCL-8082-1200ML(7)
L1410117-02G	Amber 1000ml unpreserved	A	7	4.1	Y	Absent	NYTCL-8082-1200ML(7)
L1410117-02H	Amber 500ml unpreserved	A	7	4.1	Y	Absent	NYTCL-8081(7)
L1410117-02I	Amber 500ml unpreserved	A	7	4.1	Y	Absent	NYTCL-8081(7)
L1410117-02J	Plastic 500ml HNO3 preserved	A	<2	4.1	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1410117-02K	Plastic 500ml HNO3 preserved	A	<2	4.1	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)

*Values in parentheses indicate holding time in days

Project Name: Not Specified
Project Number: 41.0162191.00

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GLOSSARY

Acronyms

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

Footnotes

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

Terms

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers



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Data Qualifiers

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



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Lab Number: L1410117
Report Date: 05/19/14

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**

EPA 353.2: Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 1	Date Rec'd in Lab 5/12/14	ALPHA Job # <u>L141017</u>								
	Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other	Billing Information <input type="checkbox"/> Same as Client Info PO #						
Client Information Client: <u>GZA</u> Address: <u>104 West 29th Street</u> <u>Manhattan, NY</u> Phone: <u>212 594 8140</u> Fax: Email: <u>matthew.Delbalzo@gza.com</u>	Project Name: Project Location: <u>219 Hudson Street, Manhattan NY</u> Project # <u>41.0162191.00</u> (Use Project name as Project #) <input checked="" type="checkbox"/> Project Manager: <u>Cliff Bell</u> ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: <u>5/19/14</u> Rush (only if pre approved) <input type="checkbox"/> # of Days:	Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:								
These samples have been previously analyzed by Alpha <input type="checkbox"/>		ANALYSIS		Sample Filtration <input checked="" type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)								
Other project specific requirements/comments:		Please specify Metals or TAL. <u>TAL</u>		Total Bottles								
Please specify Metals or TAL. <u>TAL</u>												
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TAL Metals Total & Filtered	TCL organics including VOCs, SVOCs, PCBs					Sample Specific Comments
<u>10117-01</u>	<u>MW-1</u>	<u>5/12/14</u>	<u>11:24</u>	<u>GW</u>	<u>MD</u>	<u>X</u>	<u>X</u>	<u>X</u>				<u>XXX Dissolved Metals</u>
<u>02</u>	<u>MW-2</u>	<u>5/12/14</u>	<u>12:54</u>	<u>GW</u>	<u>MD</u>	<u>X</u>	<u>X</u>	<u>X</u>				
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type <u>P A V</u> Preservative <u>HNO₃ None HCl</u>		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)				
Relinquished By: <u>[Signature]</u>		Date/Time: <u>5/12/14 13:30</u>		Received By: <u>[Signature]</u>		Date/Time: <u>5/12/14 13:30</u>						
Relinquished By: <u>[Signature]</u>		Date/Time: <u>5/12/14 1802</u>		Received By: <u>[Signature]</u>		Date/Time: <u>5/12/14 1802</u>						
Relinquished By: <u>[Signature]</u>		Date/Time: <u>5-12-14</u>		Received By: <u>[Signature]</u>		Date/Time: <u>5/12/14 2245</u>						