REMEDIAL INVESTIGATION REPORT

April 11, 2014

Submitted for:
275 4th Avenue
Brooklyn, NY 11215
Block 964, Lot 1
OER Project Number# 14EHAZ054K
E-Designation E-113
Park Slope Rezoning

Submitted to:
New York City Office of Environmental Remediation
100 Gold Street, 2nd Floor
New York, NY 10038

Prepared for:
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850 Third Avenue, Suite 16B
New York, New York 10022

Submitted by:
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IE Project Number:
5981-01-04-4002

APRIL 11, 2014

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, Kevin Kleaka, 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 site located at 275 4th Avenue, Brooklyn NY. I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Qualified Environmental Professional Date Signature

EXECUTIVE SUMMARY

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

Site Location and Current Usage

The Site is located at 275 4th Avenue in the Park Slope section of Brooklyn and is identified as Block 964 and Lot 1 on the New York City Tax Map. **Figure 1** shows the Site location. The Site is 10,000-square feet (0.23-acres) and is bounded by an auto repair shop to the north, a residential apartment building to the east, 1st Street to the south, and 4th Avenue to the west. A map of the site boundary is depicted **in Figure 2**. Currently, the Site is a 100-ft x 100-ft lot with one single-story, masonry building with an approximate footprint of 1,850 square feet utilized as a fast food restaurant. The surface area of the Site consists of asphalt parking areas, concrete walkways, and vegetative landscaping. The current zoning designation, as per Department of City Planning NYC zoning maps, is R8A with a C2-4 commercial overlay.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of mixed-use residential and commercial retail, which is consistent with the existing zoning for the property. An 11-story 60,000 gross square foot mixed-use residential/commercial retail building will be constructed. One sub-grade basement level containing retail and tenant storage, recreational space, gymnasium and building utilities is proposed. The proposed development will include a 6,000 square-foot commercial retail space on the ground floor and approximately 75 dwelling units. The footprint of the proposed 11-story building and sub-grade basement will be 10,000 square-feet, fully encompassing the Site. There will not be any proposed open spaces or landscaped areas at the Site. The depth of the proposed basement and general excavation is approximately 12-feet below existing grade in the footprint of the proposed building (100-ft x 100-ft or 10,000 square-feet), which is estimated to yield approximately 4,444 bank (in-place) cubic yards of excavated soil/fill. The maximum depth of excavation will be to 20 feet below existing grade for the installation on an elevator pit. The groundwater table is located approximately 11-12 feet below grade at the Site; therefore, soil excavation is expected at or slightly below the groundwater table. Demolition

of the existing 1,850 square-foot one story building including removal surfaces, sub-grade utilities and drainage structures is proposed prior to redevelopment activities.

Layout of the proposed site development is presented in **Appendix A**. The current zoning designation, as per Department of City Planning NYC zoning maps, is R8A with a C2-4 commercial overlay as part of the Park Slope Rezoning Resolution. The proposed use is consistent with existing zoning for the property.

Summary of Past Uses of Site and Areas of Concern

The Site was formerly utilized as a gasoline filling and automobile service station. According to NYSDEC Petroleum Bulk Storage records and previous investigation reports, twelve 550-gallon underground gasoline storage tanks (USTs), one 550-gallon fuel oil UST and one 550-gallon waste oil UST were historically operated and maintained on the Site. These USTs were installed on the Site from November 1967 to January 1968 and removed in September 1990. A review of historic Sanborn maps revealed that the former gasoline storage tanks were located on the southwest corner of the Site (at the intersection of 1st Street and 4th Avenue). A summary of the investigated Sanborn maps is described in the table below.

Date	Description	Sources
1906	The Site appears to maintain one 1 single-story residential dwelling, one 2-story residential dwelling, and one single-story junk warehouse and yard.	Sanborn Map
1926	The Site appears to maintain one single-story store, one single-story rags manufacturer/warehouse, and one single-story stable.	Sanborn Map
1951	The Site appears to maintain one single-story filling station with three gasoline tanks, and one single-story stable with a one-story surrounding junk warehouse.	Sanborn Map
1965	The Site appears to maintain one single-story filling station with three gasoline tanks.	Sanborn Map
1979	The Site appears to maintain a larger single-story filling station. Fuel tank information illegible.	Sanborn Map

1980	The Site appears to maintain a single-story filling station. Fuel tank information illegible.	Sanborn Map
1982	The Site appears to maintain a single-story concrete or brick filling station.	Sanborn Map
1985	The Site appears to maintain a single-story concrete or brick filling station.	Sanborn Map
1987	The Site appears to maintain a single-story concrete or brick filling station.	Sanborn Map
1988	The Site appears to maintain a single-story concrete or brick filling station.	Sanborn Map

The AOCs identified for this site include:

1. Historic use of the Site as a gasoline filling and automobile service station with several gasoline, fuel oil and waste oil USTs.
2. Closed NYSDEC Spill (05-51768), reported due to observed petroleum contamination in groundwater and soil.
3. Historic fill material.

Summary of the Work Performed under the Remedial Investigation

Impact Environmental Closures, Inc. (Impact Environmental) on behalf of DJS Real Estate Development, LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed 5 soil borings (B-1 through B-5) across the entire project Site, and collected 10 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Collected 3 groundwater samples for chemical analysis to evaluate groundwater quality from 3 existing on-site groundwater monitoring wells (MW-2, MW-4 and MW-5);

4. Installed 4 soil vapor probes throughout the site (SV-1 through SV-4), and collected 3 samples for chemical analysis.

5. Prepared RIR based on investigation results.

Summary of Environmental Findings

1. The topographic elevation of the property is approximately 27 feet.

2. Depth to groundwater ranges from 11.23 to 12.67 feet at the Site.

3. According to USGS regional contour maps, groundwater flow direction in the area of the Site is toward the west-northwest toward the Gowanus Canal.

4. Bedrock was not encountered during this RI.

5. Subsurface soil at the Site consisted of historic fill, which was primarily comprised of concrete, brick, stone, gravel, and some coal and slag in a brown silty sand matrix. Historic fill was [encountered at a depth interval ranging from 0 to 12 feet below grade surface (bgs) at borings B-2 and B-5; 0 to 15 feet bgs at borings B-1, B-3 and B-4. Brown medium to fine silty sand was encountered at 12 to 15 feet bgs at borings B-2 and B-5. Bedrock was not encountered during this RI.

6. Soil sample results were compared to NYSDEC Unrestricted Use (Track 1) and Restricted Residential Use (Track 2) Soil Cleanup Objectives (SCOs) as presented in NYSDEC Part 375-6 and CP51. BTEX and other petroleum associated volatile organic compounds were detected in seven samples and benzene [maximum concentration (max.) of 340 ug/kg], ethyl benzene [max. of 3,500 ug/kg], xylenes [max. of 2,180 ug/kg], and 1,2,4-trimethylbenzene [max. of 12,000 ug/kg] were detected above Track 1 SCOs in two deep soil samples. PCE, TCE, TCA, vinyl chloride, carbon tetrachloride and other chlorinated VOCs were not detected in soil samples collected during this RI. Several SVOC polycyclic aromatic hydrocarbons (PAHs) including benzo(a)anthracene (max. of 6,200 ug/kg), benzo(a)pyrene (max. of 6,400 ug/kg), benzo(b)fluoranthene (max. of 7,500 ug/kg), Benzo(k)fluoranthene (max. of 2,900 ug/kg), chrysene (max. of 6,600 ug/kg), dibenzo(a,h)anthracene (max. of 920 ug/kg), and ideno(1,2,3-cd)pyrene (max. of 4,000 ug/kg) were detected above Restricted Residential SCOs within four shallow and one deep soil samples. Three pesticides (4,4-DDD, 4,4-DDE, 4,4-DDT) were detected above Track 1 SCOs in one shallow soil sample, B-2, at maximum concentrations of 6.96 ug/kg, 18.1 ug/kg, and 21.8 ug/kg. Metals including arsenic, trivalent chromium, copper,

lead, mercury, nickel, silver and zinc were detected above Track 1 Unrestricted Use SCOs. Of these metals, arsenic [max. of 21 mg/kg], copper [max. of 4,500 mg/kg], lead [max. of 1,900 mg/kg] and mercury [max. of 29 mg/kg]) were detected above Track 2 Restricted Residential SCOs in five shallow soil samples and three deep soil samples. The concentration of mercury in B-1 (0-2') at 29 mg/kg and copper in B-4 (12-14') at 4,500 mg/kg represents two hot spot areas. Polychlorinated biphenyls (PCBs) were detected at trace levels below Track 1 SCOs in three shallow soil samples. Overall, soil results are consistent with historic fill material at sites throughout NYC and with the previously closed petroleum spill on the Site.

7. Groundwater sample results were compared to NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS). Laboratory analysis of groundwater samples collected during the RI did not detect pesticides or PCBs in the groundwater samples. No PCE, TCE, TCA, carbon tetrachloride, vinyl chloride or other chlorinated VOCs were detected in the groundwater samples collected on the Site. Seven petroleum related VOCs (1,2,4-Trimethylbenzene [max. of 16 ug/L], Benzene [max. of 27 ug/L], MTBE [max. of 20 ug/L], n-Butylbenzene [max. of 16 ug/L], n-Propylbenzene [max. of 97 ug/L], sec-Butylbenzene [max. of 10 ug/L], and p,m Xylene [max. of 7.6]) were detected above their respective AWQS. Five SVOC PAHs (benzo-a-anthracene [max. of 0.72 ug/L], benzo-b-fluoranthene [max. of 1.2 ug/L], benzo-k-fluoranthene [max. of 0.65 ug/L], chrysene [max. of 0.96 ug/L], and indeno(1,2,3-cd)pyrene [max. of 0.91 ug/L]) were detected above their respective AWQS Fifteen dissolved metals were detected in the groundwater samples at trace levels below AWQS. Separate phase product was not detected in any of the monitoring wells.

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. Laboratory analysis of soil vapor samples indicated several VOCs were detected at concentrations ranging from 1.11 ug/m^3 (chloromethane) to 3,970 ug/m^3 (2,2,4-trimethylpentane). The highest VOC concentrations were found in SV-3 (cyclohexane at 108 ug/m^3, n-hexane at 309 ug/m^3, and 2,2,4-trimethylpentane at 3,970 ug/m^3). All other VOCs were detected at levels below 60 ug/m^3, including trace to low level detections of several chlorinated VOCs. PCE, TCE, TCA, vinyl chloride and carbon tetrachloride were not detected in any of the soil vapor samples. All chlorinated compounds were below the guidance matrix for monitoring established by NYSDOH.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

DJS Real Estate Development, LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.23 acre (10,000-square foot) site located at 275 4th Avenue in the Park Slope neighborhood of Brooklyn, New York (the Site). Mixed commercial residential use is proposed for the property. The Remedial Investigation (RI) work was performed on February 4, 2014. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 275 4th Avenue in the Park Slope section of Brooklyn and is identified as Block 964 and Lot 1 on the New York City Tax Map. **Figure 1** shows the Site location. The Site is 10,000-square feet (0.23-acres) and is bound by an auto repair shop to the north, a residential apartment building to the east, 1st Street to the south, and 4th Avenue to the west. A map of the site boundary is depicted in **Figure 2**. Currently, the Site is a 100-ft x 100-ft lot with one single-story, masonry building with an approximate footprint of 1,850 square feet utilized as a fast food restaurant. The surface area of the Site consists of asphalt parking areas, concrete walkways, and vegetative landscaping. The current zoning designation, as per Department of City Planning NYC zoning maps, is R8A with a C2-4 commercial overlay.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of mixed-use residential and commercial retail, which is consistent with the existing zoning for the property. An 11-story 60,000 gross square foot mixed-use residential/commercial retail building will be constructed. One sub-grade basement level containing retail and tenant storage, recreational space, gymnasium and building utilities is proposed. The proposed development will include a 6,000 square-foot commercial retail space on the ground floor and approximately 75 dwelling units. The footprint of the proposed 11-story building and sub-grade basement will be 10,000 square-feet, fully encompassing the Site. There will not be any proposed open spaces or landscaped areas at the Site. The depth of the proposed basement and general excavation is

approximately 12-feet below existing grade in the footprint of the proposed building (100-ft x 100-ft or 10,000 square-feet), which is estimated to yield approximately 4,444 bank (in-place) cubic yards of excavated soil/fill. The maximum depth of excavation will be to 20 feet below existing grade for the installation on an elevator pit. The groundwater table is located approximately 11-12 feet below grade at the Site; therefore, soil excavation is expected at or slightly below the groundwater table. Demolition of the existing 1,850 square-foot one story building including removal surfaces, sub-grade utilities and drainage structures is proposed prior to redevelopment activities.

Layout of the proposed site development is presented in **Appendix A**. The current zoning designation, as per Department of City Planning NYC zoning maps, is R8A with a C2-4 commercial overlay as part of the Park Slope Rezoning Resolution. The proposed use is consistent with existing zoning for the property.

1.3 Description of Surrounding Property

The site is located in the Park Slope neighborhood of Brooklyn. Park Slope is bounded by Flatbush Avenue to the north, Prospect Park West to the east, Prospect Expressway to the south and Fourth Avenue to the west. Historically, Park Slope has consisted of mostly residential brownstones and row houses with main commercial corridors along the main avenues running through Park Slope, such as Fifth and Seventh Avenue. The Park Slope Rezoning Resolution was issued in 2003 to preserve the historic scale of the brownstone neighborhoods, and provide increased opportunities for residential and commercial development on the underbuilt and underutilized single-story commercial sites along Fourth Avenue. A description of each of the adjoining properties is described in the table below.

Direction	Property Description
North **Adjacent Property**	Block 964 Lot 6 (271 4th Avenue) – A 1,647-SF lot that fronts 4th Avenue. The lot is currently developed with a one-story masonry building and serves as an auto repair shop. The lot is currently zoned R8A with a C2-4 commercial overlay.
South **Opposite Side of 1st Street**	Block 969 Lot 1 (283 4th Avenue) – A 51,500-SF lot that fronts 4th Avenue, 1st Street and 2nd Street. The lot is currently developed with five on-story masonry buildings which serve as warehouse space and manufacturing. The lot is currently zoned R8A, R6B with a C2-4 commercial overlay.
West **Opposite**	Block 456 Lot 1 (27 Denton Place) – A 16,435-SF lot that fronts 4th Avenue, 1st Street and

Side of 4th Avenue	Denton Place. The lot is currently developed with a one-story building which serves as a car wash and vehicle service shop. The lot is currently zoned M1-2.
East Adjacent Property	Block 964 Lot 7502 (255 1st Street) – A 9,435-SF lot that fronts 1st Street. The lot is currently developed with a recently constructed 12-story mixed residential and commercial building The lot is currently zoned R8A, R6B with a C2-4 commercial overlay.

There are no sensitive receptors such as schools, hospitals, or day care facilities within a 250-ft radius of the Site. One day care facility is located within a 500-ft radius of the Site; Alonzo A. Daughtry Memorial Dcc Inc. located at 333 2nd Street. There are no hospitals or schools located within a 500-ft radius of the Site. **Figure 3** shows the surrounding land usage.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

The Site was formerly utilized as a gasoline filling and automobile service station. According to NYSDEC Petroleum Bulk Storage records and previous investigation reports, eighteen 550-gallon and two 275-gallon underground gasoline storage tanks (USTs), one 550-gallon fuel oil UST and one 550-gallon waste oil UST were historically operated and maintained on the Site. These USTs were installed on the Site from November 1967 to January 1968 and removed in September 1990. A review of historic Sanborn maps revealed that the former gasoline storage tanks were located on the southwest corner of the Site (at the intersection of 1st Street and 4th Avenue). A summary of the investigated Sanborn maps is described in the table below.

Date	Description	Sources
1906	The Site appears to maintain one 1 single-story residential dwelling, one 2-story residential dwelling, and one single-story junk warehouse and yard.	Sanborn Map
1926	The Site appears to maintain one single-story store, one single-story rags manufacturer/warehouse, and one single-story stable.	Sanborn Map
1951	The Site appears to maintain one single-story filling station with three gasoline tanks, and one single-story stable with a one-story surrounding junk warehouse.	Sanborn Map
1965	The Site appears to maintain one single-story filling station with three gasoline tanks.	Sanborn Map
1979	The Site appears to maintain a larger single-story filling station. Fuel tank information illegible.	Sanborn Map
1980	The Site appears to maintain a single-story filling station. Fuel tank information illegible.	Sanborn Map

1982	The Site appears to maintain a single-story concrete or brick filling station.	Sanborn Map
1985	The Site appears to maintain a single-story concrete or brick filling station.	Sanborn Map
1987	The Site appears to maintain a single-story concrete or brick filling station.	Sanborn Map
1988	The Site appears to maintain a single-story concrete or brick filling station.	Sanborn Map

2.2 Previous Investigations

In June 2006, Impact Environmental performed a Subsurface Investigation on the Site. The investigation consisted of the sampling and analysis of subsurface soil and groundwater to define the extent of contamination associated with NYSDEC spill case number 05-51768. A total of six groundwater monitoring wells were installed on the Site. Laboratory analysis performed on the groundwater samples detected elevated concentrations of gasoline-related contaminants. In response, a Quarterly Monitoring Program was developed under the oversight of the NYSDEC utilizing a network of six on-Site and off-Site monitoring wells. In August 2010, NYSDEC agreed to reduce the Groundwater Monitoring Program frequency from a quarterly to semi-annual utilizing a network of four existing on-Site monitoring wells.

As part of the petroleum spill remediation efforts, two Oxygen Releasing Compound (ORC) groundwater injection events were conducted at the Site on July 2007 and June 2009 by Impact Environmental to address the reported residual soil contamination associated with the former UST tank field. Subsequent quarterly monitoring indicated a significant reduction in contamination levels by September 2011.

In June 2013, Impact Environmental performed a Supplemental Subsurface Investigation on the Site and reported in the First Half 2013 Semi-Annual Monitoring Report, dated August 14, 2013. The investigation was conducted to verify the effectiveness of the spill remedial work performed as per the NYSDEC's recommendations pursuant towards closure of the NYSDEC Spill case number 05-51768. One soil boring was installed within the location of the former gasoline UST tank field. Laboratory analysis of the soil sample detected several VOCs at trace concentrations well below their respective NYSDEC Part 375

Unrestricted Use Soil Cleanup Objectives. As part of the aforementioned First Half 2013 Groundwater Monitoring event, 6 on-Site and off-Site monitoring wells were sampled. Laboratory analysis of the groundwater samples detected nominal concentrations of gasoline related target VOCs, marginally above the NYSDEC 6NYCRR Part 703 Class GA groundwater standards. Other target VOCs were not detected or detected at concentrations below their respective groundwater standards.

The results of the June 2013 Supplemental Subsurface Investigation and First Half 2013 Semi-Annual Monitoring event demonstrated that the gasoline-related contamination associated with NYSDEC spill case number 05-51768 was effectively mitigated to the extent practical. As a result the NYSDEC closed the spill case on October 7, 2013.

2.3 Site Inspection

Mr. Benjamin Hernandez Salazar of Impact Environmental performed a Site Inspection on January 23, 2014. The reconnaissance included a visual inspection of the Site, the adjacent sidewalks along 4th Avenue and 1st Street, the exterior of adjacent properties and a limited inspection of the existing Site building within the ordering and dining area of the restaurant. At the time of the inspection, the Site consisted of a one-story 1,500-square foot masonry building being utilized as a fast food restaurant with an asphalt-paved parking area and asphalt-paved drive through. Inspection of the interior sitting and dining area of the active fast food restaurant did not exhibit signs of chemical staining; access to the food preparation and management offices was not allowed. The inspection of the parking area and drive-through revealed evidence of motor oil staining, typical of areas with vehicular traffic. Several groundwater monitoring wells, associated with the closed NYSDEC spill case, were observed throughout the site. The monitoring wells were all properly capped and covered.

2.4 Areas of Concern

The AOCs identified for this site include:

1. Historic use of the Site as a gasoline filling and automobile service station with several gasoline, fuel oil and waste oil USTs.
2. Closed NYSDEC Spill (05-51768), reported due to observed petroleum contamination in groundwater and soil.
3. Historic fill material.

Historic Sanborn maps and a previous investigation report are presented in **Appendix B**.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Kevin Kleaka.

3.2 Health and Safety

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

3.3 Materials Management

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

4.0 REMEDIAL INVESTIGATION ACTIVITIES

Impact Environmental Closures, Inc. (Impact Environmental) on behalf of DJS Real Estate Development, LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed 5 soil borings (B-1 through B-5) across the entire project Site, and collected 10 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Collected 3 groundwater samples for chemical analysis to evaluate groundwater quality from 3 existing on-site groundwater monitoring wells (MW-2, MW-4 and MW-5);
4. Installed 4 soil vapor probes throughout the site (SV-1 through SV-4), and collected 3 samples for chemical analysis.
5. Prepared RIR based on investigation results.

4.1 Geophysical Investigation

A geophysical investigation was not performed as a part of this assessment. However, previous records document the removal of twelve 550-gallon gasoline USTs, one 550-gallon fuel oil UST and one 550-gallon waste oil UST were removed in September 1990; and six 550-gallon and two 275-gallon petroleum USTs were removed in May 1994 during site redevelopment.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

A total of five soil borings (B-1 through B-5) were installed on February 4, 2014 by Impact Environmental in the approximate locations depicted in **Figure 4**. The five soil boring locations were chosen to gain representative soil and groundwater quality information across the Site. All five soil boring were installed to a depth of 15 feet below existing grade (bgs).

For each of the five soil borings, soil samples were collected continuously from grade to their respective final depth below existing grade using a five-foot steel macro-core sampler with acetate liners and Geo-Probe direct-push equipment. Soil recovered from each of the soil borings was field screened for the presence of VOCs with a photo-ionization detector (PID) and visually inspected for evidence of contamination. A PID makes use of the principle of photoionization for the detection and qualitative

measurement of organic vapors. A PID does not respond to all compounds similarly, rather, each compound has its own response factor relative to its calibration. For this investigation, the PID was calibrated to the compound isobutylene, as published by the manufacturer. The PID has a minimum detection limit of 0.1 parts per million (ppm). This meter measures the hydrocarbon concentrations in isolated portions of the secured samples.

Headspace analyses were conducted on each soil sample by partially filling a zip-loc bag and sealing it, thereby creating a void. This void is referred to as the sample headspace. To facilitate the detection of any hydrocarbons contained within the headspace, the container was agitated for a period of 30 seconds. The probe of the PID was placed within the headspace to measure the organic vapors present. Elevated PID readings (as high as 1625 ppm) and visually stained soil that exhibited a petroleum odor was noted at a depth ranging from 11 to 15 feet below grade in all five soil borings.

From each soil boring, one soil grab sample was retained representing the interval 0 to 2 feet below grade and one soil grab sample was retained representing the bottom two foot interval of 12 to 14 feet below grade, representing the deepest proposed development excavation depth.

Subsurface soil at the Site consisted of historic fill, which was primarily comprised of concrete, brick, stone, gravel, coal and slag in a brown silty sand matrix. Historic fill was encountered at a depth interval ranging from 0 to 12 feet below grade surface (bgs) at borings B-2 and B-5; 0 to 15 feet bgs at borings B-1, B-3 and B-4. Brown medium to fine silty sand was encountered at 12 to 15 feet bgs at borings B-2 and B-5.

Boring logs were prepared by a QEP and are attached in **Appendix C**. A map depicting the location of soil borings and monitor wells is shown in **Figure 4**.

Groundwater Monitoring Well Construction

Installation records of the existing on-site monitoring wells indicate that they were constructed of 2-inch diameter, 15-foot schedule 40 PVC (0.020-inch) well screen interval and solid riser. The annulus around the well screen was filled with clean, appropriately sized silica sand and a 2-foot bentonite seal plug was installed around the riser above the filtration media, drill cutting media was placed above the bentonite seal to 6-inches below existing grade. Concrete was used to fill the remaining 6-inches of open well casing in conjunction with the installation of a cast iron manhole with an access cover. Each well was then redeveloped during the RI investigation to ensure proper functioning. Monitoring well locations are shown in **Figure 4**.

Survey

Soil borings, monitoring wells and soil vapor probes were located to the nearest 0.10 foot with respect to two or more permanent site features using a measuring wheel.

Water Level Measurement

Groundwater level measurements were collected using a Solinst oil/water interface meter. Groundwater depths were measured from the top of PVC riser. Product was not detected in any of the four groundwater monitoring wells. Water level data is included in **Table 4**.

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted at each Area of Concern (AOCs) and was also biased to other areas 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

Five soil borings (B-1 through B-5) were installed and ten soil samples were collected for chemical analysis during the remedial investigation. One shallow (0-2 ft bgs) and one deep (12-14 ft bgs), representing the deepest proposed excavation depth. Soil samples from each soil probe were collected utilizing a 5-foot long Macro Core sampler fitted with dedicated acetate liners. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in **Table 1**. **Figure 4** shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Each of the ten soil samples were collected in pre-cleaned, laboratory supplied glassware, appropriately labeled, stored in a cooler with ice and submitted for analysis under proper chain of custody procedures to Alpha Analytical Laboratories (Alpha) of Westborough, MA, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11148). Soil samples were analyzed for the presence of VOCs by EPA Method 8260, semi-volatile organic compounds (SVOCs-BN) by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082 and target analyte list (TAL) metals by EPA Method 6010.

Each piece of sampling or other down hole equipment was decontaminated by wiping clean, washing with Alconox solution, rinsing with deionized water and air drying prior to each use in order to ensure that cross-contamination between sampling locations did not occur. Decontamination procedures were performed in an area segregated from any sampling areas.

Groundwater Sampling

One groundwater sample was collected from each of the three existing monitoring wells (MW-2, MW-4, and MW-5) for chemical analysis during this RI. The Phase II Work Plan, dated January 7, 2014 indicated that groundwater samples were to be collected from existing groundwater monitoring wells MW-1, MW-3, and MW-5, however MW-1 and MW-3 were unable to be located therefore groundwater samples were collected from monitoring wells MW-2, MW-4 and MW-5. Groundwater sampling well locations are depicted in **Figure 4**. Each monitoring well was purged of 3 to 5 well volumes of groundwater. The water was allowed to recharge to the original level and a groundwater sample was then collected from each of the selected existing wells utilizing dedicated polyethylene bailers for VOCs, SVOCs, pesticides/PCBs and TAL metals samples. Laboratories and analytical methods are shown below.

Each groundwater sample was placed into the following laboratory supplied glassware: 3 clean HCL preserved 40 milliliter (mL) vials, 2 clean nitric acid preserved 500 mL plastic container, and 6 clean unpreserved 1,000 mL jars. Sample glassware was appropriately labeled, stored in a cooler with ice and submitted for analysis under proper chain of custody procedures to Alpha Analytical Laboratories for analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082 and total TAL metals (filtered and unfiltered). One duplicate groundwater sample was collected from monitoring well MW-2 for VOC analysis. Groundwater sample collection data is reported in **Table 2**. Sampling logs with information on purging and sampling of groundwater monitoring wells are included in **Appendix D**.

Soil Vapor Sampling

Four soil vapor probes designated SV-1, SV-2, SV-3, and SV-4 were installed on February 4, 2014. The soil vapor probes were installed at a depth of 9 feet below grade. The soil vapor probes were installed utilizing similar technology as the soil probes in accordance with the NYSDOH Guidance of Evaluating Soil Vapor Intrusion, dated October 2006. Each soil vapor sampling point consisted of a stainless steel screen and was fitted with dedicated ¼ inch diameter polyethylene tubing. The soil vapor probe was installed in the subsurface soil. Washed #1 crushed stone was poured into each hole to fully encompass

the screen implant, and each hole was sealed with bentonite and dry-lock non-VOC quick set cement. A map depicting the locations of soil vapor probes is presented in **Figure 4**.

Following verification that the surface seal was tight, one to three volumes (i.e., the volume of the sample probe) of air was purged from the implant using a vacuum pump. After purging, a laboratory supplied pre-cleaned 2.7-liter Summa® canister, fitted with a 2-hour flow regulator, was attached to the surface tube of each of the six soil vapor implants. Prior to initiating sample collection, sample identification, canister number, date and start time were recorded on tags attached to each canister and in a field log. Sampling then proceeded by fully opening the flow control valve on each canister in turn. Immediately after opening the flow control valve on a canister, the initial vacuum (inches of mercury) was recorded in the field log and on the sample tag. When the vacuum level in the canister was between 5 and 8 inches of mercury (approx. 2 hours), the flow controller valve was closed, and the final vacuum recorded in the field notebook and on the sample tag.

The soil gas sample identification, date, start time, start vacuum, end time and end vacuum were recorded on tags attached to each canister, on a sample log sheet (**Appendix E**), and the laboratory chain of custody. Samples were submitted to Alpha Analytical for laboratory analysis of VOCs EPA Method TO-15. Soil vapor sampling locations are depicted in **Figure 4**. Soil vapor sample collection data is reported in **Table 3**. Methodologies used for soil vapor assessment conform to the NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.

Chemical Analysis

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

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Tom Tanico
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and were Alpha Analytical Laboratory (ELAP Certification No. 11148)
Chemical Analytical Methods	Soil analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007);

	• VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Groundwater analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Soil vapor analytical methods: • VOCs by TO-15 VOC parameters.

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in **Table 1, Table 2, Table 3,** respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in **Appendix F**.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

According to the surficial geologic map of New York, lower Hudson sheet (Caldwell, 1989), this area of New York is underlain by Pleistocene-glacial till, dominantly consisting of fine to coarse grain sand with interstitial lenses of gravel and silt, which are remnants of glacial deposition with bedrock located at 10-50 meters below grade. According to the United States Department of Agriculture soil survey classification and nomenclature system, this soil would likely be referred to as urban land, because the original composition and structure of the soil has been significantly altered by urbanization and development activities.

Stratigraphy

Subsurface soil at the Site consisted of historic fill, which was primarily comprised of concrete, brick, stone, gravel, and some coal and slag in a brown silty sand matrix. Historic fill was encountered at a depth interval ranging from 0 to 12 feet below grade surface (bgs) at borings B-2 and B-5; 0 to 15 feet bgs at borings B-1, B-3 and B-4. Brown medium to fine silty sand was encountered at 12 to 15 feet bgs at borings B-2 and B-5. Bedrock was not encountered during this RI.

Hydrogeology

A table of water level data for all monitoring wells is included in **Table 4**. The depth to groundwater ranges from 11.23 feet below grade to 12.67 feet below grade. According to published USGS regional contour maps, the groundwater flow direction in the area of the Site is toward the west-northwest towards the Gowanus Canal. Previous investigation reports for the Site reported significant gradients on the water table across the Site with varying and inconsistent groundwater flow directions. These anomalies suggest that the water table is being influenced due to localized intermittent groundwater pumping in the area, most likely related to the adjacent subway structure, which is altering the horizontal and vertical movement of groundwater. Based on these factors, a reliable flow direction could not be measured.

5.2 Soil Chemistry

Soil sample results were compared to NYSDEC Unrestricted Use (Track 1) and Restricted Residential Use (Track 2) Soil Cleanup Objectives (SCOs) as presented in NYSDEC Part 375-6 and CP51. BTEX and other petroleum associated volatile organic compounds were detected at low levels and below Track 2 SCOs in

seven samples. BTEX and petroleum associated volatile organic compounds (benzene [maximum concentration (max.) of 340 ug/kg], ethyl benzene [max. of 3,500 ug/kg], xylenes [max. of 2,180 ug/kg], and 1,2,4-trimethylbenzene [max. of 12,000 ug/kg]) were detected above Track 1 SCOs in two deep soil samples. PCE, TCE, TCA, vinyl chloride, carbon tetrachloride and other chlorinated VOCs were not detected in soil samples collected during this RI.

Several SVOC polycyclic aromatic hydrocarbons (PAHs) (benzo compounds, chrysene, dibenzo-a,h-anthracene and indeno(1,2,3-cd)pyrene) were detected above Track 2 SCOs within four shallow and one deep soil samples. Maximum concentrations for each of these compounds were found in the deep sample (12' – 14') collected at B-4: benzo(a)anthracene at 6,200 ug/kg, benzo(a)pyrene at 6,400 ug/kg, benzo(b)fluoranthene at 7,500 ug/kg, chrysene at 6,600 ug/kg, dibenzo(a,h)anthracene at 920 ug/kg, and ideno(1,2,3-cd)pyrene at 4,000 ug/kg. Benzo(k)fluoranthene exceeded Track 1 SCOs in this boring at 2,900 ug/kg.

Three pesticides (4,4-DDD, 4,4-DDE, 4,4-DDT) were detected above Track 1 SCOs in one shallow soil sample, B-2, at maximum concentrations of 6.96 ug/kg, 18.1 ug/kg, and 21.8 ug/kg. Other pesticides were detected at trace levels below Track 1 SCOs in two shallow soil samples. Polychlorinated biphenyls (PCBs) were detected at trace levels below Track 1 SCOs in three shallow soil samples.

Eight metals (arsenic, trivalent chromium, copper, lead, mercury, nickel, silver and zinc) were detected above Track 1 SCOs in five shallow soil samples and two deep samples. Four metals (arsenic [max. of 21 mg/kg], copper [max. of 4,500 mg/kg], lead [max. of 1,900 mg/kg] and mercury [max. of 29 mg/kg]) were detected above Track 2 SCOs in five shallow soil samples and three deep soil samples. The concentration of mercury in B-1 (0-2') at 29 mg/kg and copper in B-4 (12-14') at 4,500 mg/kg represents two hot spots.

Overall, soil results are consistent with historic fill material at sites throughout NYC and with the previously closed petroleum spill on the Site.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in **Table 1**. A copy of the laboratory report is provided in **Appendix F**. **Figure 5** depicts the location and posts the values for soil/fill that exceed the Track 1 and Track 2 Soil Cleanup Objectives.

5.3 Groundwater Chemistry

Groundwater sample results were compared to NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS). No pesticides or PCBs were detected in the groundwater samples. No PCE, TCE, TCA, carbon tetrachloride, vinyl chloride or other chlorinated VOCs were detected in the groundwater samples collected on the Site.

Seven petroleum related VOCs (1,2,4-Trimethylbenzene [max. of 16 ug/L], Benzene [max. of 27 ug/L], MTBE [max. of 20 ug/L], n-Butylbenzene [max. of 16 ug/L], n-Propylbenzene [max. of 97 ug/L], sec-Butylbenzene [max. of 10 ug/L], and p,m Xylene [max. of 7.6]) were detected above the AWQS in monitoring wells MW-2, MW-2 duplicate, and MW-5. Other VOCs were detected at trace levels below the AWQS in MW-2, MW-2 duplicate, and MW-5. VOCs were not detected in MW-4.

Five SVOC PAHs (benzo-a-anthracene [max. of 0.72 ug/L], benzo-b-fluoranthene [max. of 1.2 ug/L], benzo-k-fluoranthene [max. of 0.65 ug/L], chrysene [max. of 0.96 ug/L], and indeno(1,2,3-cd)pyrene [max. of 0.91 ug/L]) were detected above the AWQS in monitoring wells MW-2 and MW-4. Other SVOCs were detected at trace levels below the AWQS in MW-2, MW-4 and MW-5.

Fifteen dissolved metals were detected in the groundwater samples at trace levels below AWQS. Separate phase product was not detected in any of the monitoring wells.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in **Table 2**. A copy of the laboratory report is provided in **Appendix F. Figure 6** depicts the location and posts the values for groundwater that exceed the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS).

5.4 Soil Vapor Chemistry

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. Laboratory analysis of soil vapor samples indicated several VOCs were detected at concentrations ranging from 1.11 ug/m^3 (chloromethane) to 3,970 ug/m^3 (2,2,4-trimethylpentane). The highest VOC concentrations were found in SV-3 (cyclohexane at 108 ug/m^3, n-hexane at 309 ug/m^3, and 2,2,4-trimethylpentane at 3,970 ug/m^3). All other VOCs were detected at levels below 60 ug/m^3, including trace to low level detections of several chlorinated VOCs in

SV-2 and SV-4. PCE, TCE, TCA, vinyl chloride and carbon tetrachloride were not detected in any of the soil vapor samples. All chlorinated compounds were below the guidance matrix for monitoring established by NYSDOH. Soil vapor sample SV-1 was invalid due to water intrusion into the canister valve and was not analyzed by the laboratory.

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in **Table 3**. **Figure 7** depicts the location and posts the values for soil vapor samples with detected concentrations.

5.5 Prior Activity

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

5.6 Impediments to Remedial Action

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

FIGURES

IMPACT ENVIRONMENTAL
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LYNDHURST, NEW JERSEY 07071

TITLE:

FIGURE 1

SITE LOCATION MAP

SITE:

275 4th AVENUE

BROOKLYN, NY
BLOCK 964, LOT 1

DRAWING NO: Figure 1

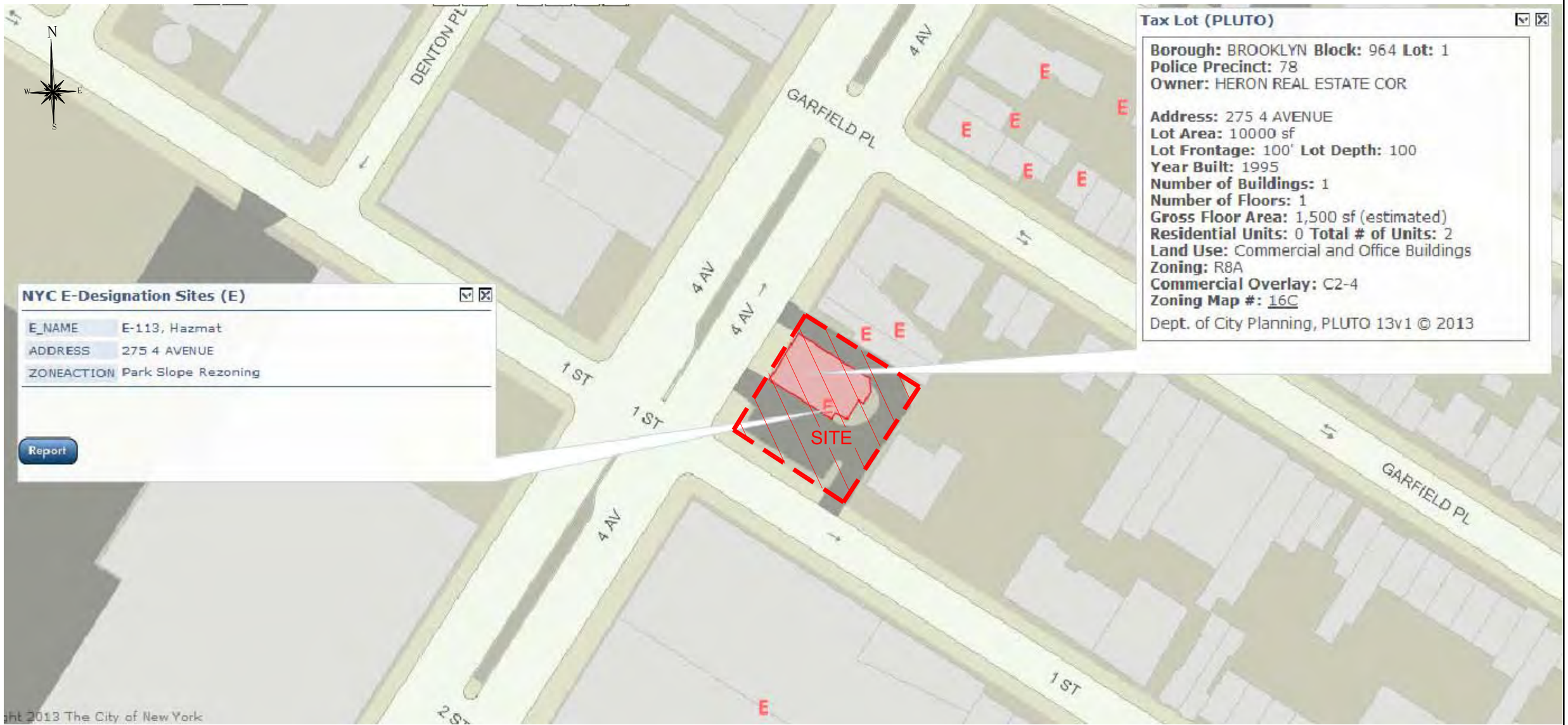
PROJECT NO.	5981-01-04-4001
DESIGNED BY:	KK
DRAWN BY:	BH
CHECKED BY:	KK
DATE:	2/19/2014
SCALE:	NTS

REVISIONS NO:	DATE:

NOTES:

1. BASE MAP - U.S. DEPARTMENT OF THE INTERIOR U.S. GEOLOGICAL SURVEY. BROOKLYN QUADRANGLE 7.5 MINUTE SERIES, 1995.

LEGEND:



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TITLE:

FIGURE 2

SITE BOUNDARY MAP

SITE:

275 4th AVENUE

BROOKLYN, NY
BLOCK 964, LOT 1

DRAWING NO: Figure 2

PROJECT NO.	5981-01-04-4001
DESIGNED BY:	KK
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NOTES:

1. MAP PROVIDED BY THE NEW YORK CITY PLANNING ZONING AND LAND USE APPLICATION

LEGEND:

SITE LOCATION

Legend

- Rezoning area boundary
- Zoning district line

Land Use

- residential
- mixed commercial/residential
- commercial
- industrial/manufacturing
- transportation/utilities
- auto-oriented uses
- community facility
- open space
- vacant/parking

N

Legend

- Rezoning area boundary
- R6 Surrounding area zoning district

N

Proposed Zoning

R6A R7A R8A C8-2
R6B R7B R8B C4-3A

Commercial Overlays

C1-3 C1-4 C2-3 C2-4

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TITLE:

FIGURE 3

SURROUNDING LAND USE AND ZONING MAPS

SITE:

275 4th AVENUE

BROOKLYN, NY
BLOCK 964, LOT 1

DRAWING NO: Figure 3

PROJECT NO.	5981-01-04-4001
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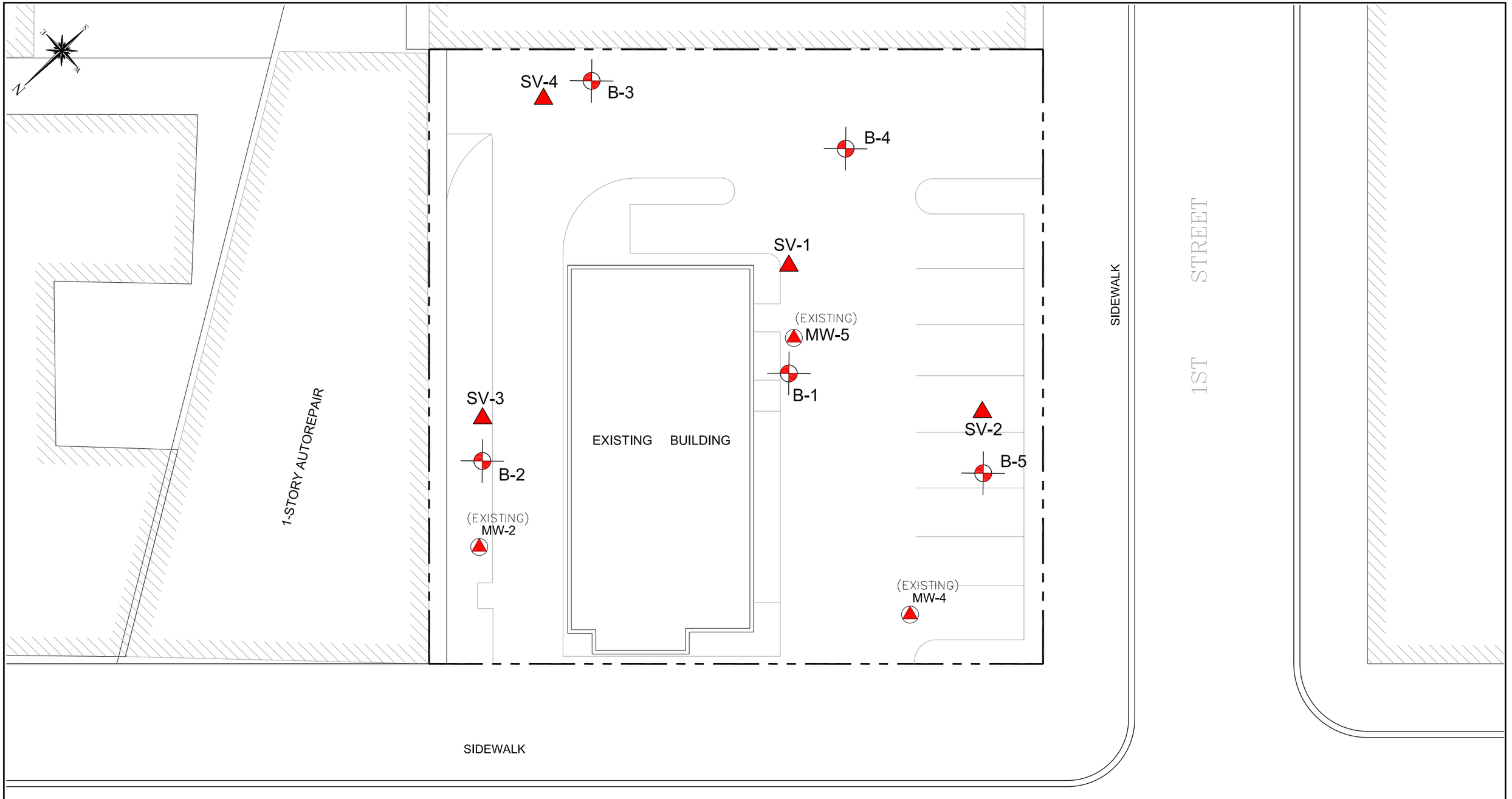
DRAWN BY:	BH
CHECKED BY:	KK
DATE:	2/19/2014
SCALE:	NTS

REVISIONS NO:	DATE:

NOTES:

1. MAPS PROVIDED BY THE NEW YORK CITY DEPARTMENT OF CITY PLANNING NYC.GOV WEB SITE.

LEGEND:



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TITLE:

FIGURE 4

SAMPLE ACQUISITION PLAN

SITE:

275 4th AVENUE

BROOKLYN, NY
BLOCK 964, LOT 1

DRAWING NO: Figure 5	
PROJECT NO.	5981-01-04-4001
DESIGNED BY:	KK
DRAWN BY:	BH
CHECKED BY:	KK
DATE:	2/19/2014
SCALE:	1" = 15'

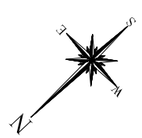
REVISIONS NO:	DATE:

NOTES:

1. SOIL BORINGS AND SOIL VAPOR PROBE IMPLANTS INSTALLED ON 2/4/14
2. GROUNDWATER SAMPLES WERE COLLECTED FROM EXISTING MONITORING WELLS PREVIOUSLY INSTALLED BY OTHERS.

LEGEND:

- B-*x* — SOIL BORING LOCATION
- SV-*x* — SOIL VAPOR POINT LOCATION
- MW-*x* — EXISTING GROUNDWATER MONITORING WELL LOCATION

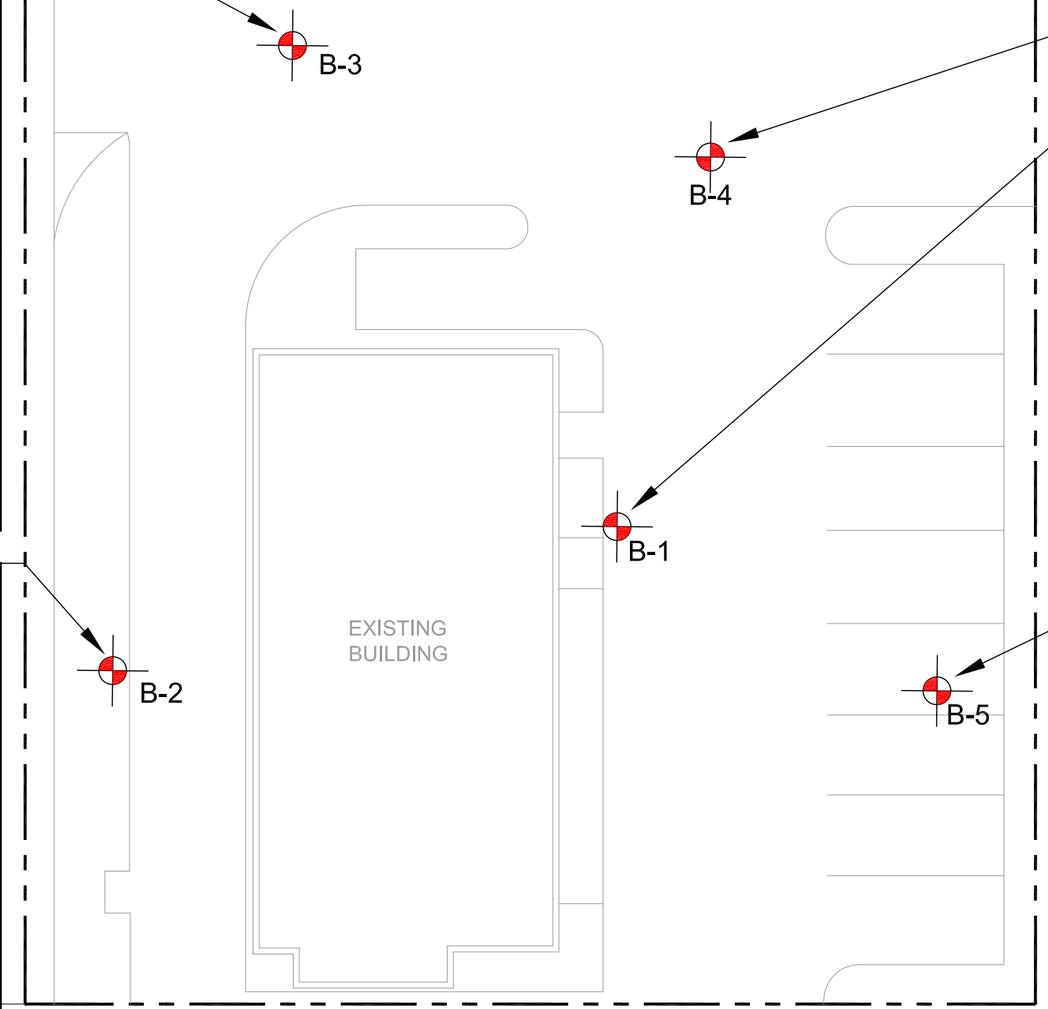


B - 3 (0'-2')		
Benzo-a-Anthracene	1.50 ppm	T2
Benzo-a-Pyrene	1.40 ppm	T2
Benzo-b-Fluoranthene	1.70 ppm	T2
Chrysene	1.70 ppm	T1
Indeno(1,2,3-cd)Pyrene	0.78 ppm	T2
Lead	250 ppm	T1
Mercury	2.1 ppm	T2
Nickel	35 ppm	T1
Zinc	110 ppm	T1
Total BTEX	ND	
Total VOCs	0.170 ppm	
Total cPAHs	8.00 ppm	
Total SVOCs	21.05 ppm	

B - 3 (12'-14')		
Total Xylenes	0.58 ppm	T1
Trivalent Chromium	43 ppm	T1
Copper	90 ppm	T1
Lead	690 ppm	T2
Mercury	1.6 ppm	T2
Zinc	130 ppm	T1
Total BTEX	0.94 ppm	
Total VOCs	5.45 ppm	
Total cPAHs	1.40 ppm	
Total SVOCs	2.86 ppm	

B - 2 (0'-2')		
Benzo-a-Anthracene	4.90 ppm	T2
Benzo-a-Pyrene	4.50 ppm	T2
Benzo-b-Fluoranthene	5.90 ppm	T2
Benzo-k-Fluoranthene	2.20 ppm	T1
Chrysene	4.70 ppm	T2
Dibenzo-a,h-Anthracene	0.570 ppm	T2
Indeno(1,2,3-cd)Pyrene	2.40 ppm	T2
4,4-DDD	0.00696 ppm	T1
4,4-DDE	0.0181 ppm	T1
4,4-DDT	0.0218 ppm	T1
Copper	100 ppm	T1
Lead	640 ppm	T2
Mercury	2.4 ppm	T2
Zinc	340 ppm	T1
Total BTEX	ND	
Total VOCs	ND	
Total cPAHs	25.17 ppm	
Total SVOCs	52.71 ppm	

B - 2 (12'-14')		
Total BTEX	ND	
Total VOCs	1.182 ppm	
Total cPAHs	ND	
Total SVOCs	0.082 ppm	



B - 2 (0'-2')		
Benzo-a-Anthracene	1.40 ppm	T2
Benzo-a-Pyrene	1.30 ppm	T2
Benzo-b-Fluoranthene	1.60 ppm	T2
Chrysene	1.60 ppm	T1
Indeno(1,2,3-cd)Pyrene	0.90 ppm	T2
Arsenic	16 ppm	T2
Copper	130 ppm	T1
Lead	1000 ppm	T2
Mercury	29 ppm	T2
Zinc	360 ppm	T1
Total BTEX	ND	
Total VOCs	ND	
Total cPAHs	7.41 ppm	
Total SVOCs	17.88 ppm	

B - 2 (12'-14')		
Total BTEX	0.01 ppm	
Total VOCs	0.054 ppm	
Total cPAHs	ND	
Total SVOCs	0.039 ppm	

B - 5 (0'-2')		
Benzo-a-Anthracene	1.50 ppm	T2
Benzo-a-Pyrene	1.50 ppm	T2
Benzo-b-Fluoranthene	1.80 ppm	T2
Chrysene	1.50 ppm	T1
Indeno(1,2,3-cd)Pyrene	1.0 ppm	T2
Copper	75 ppm	T1
Lead	450 ppm	T2
Mercury	3 ppm	T2
Zinc	280 ppm	T1
Total BTEX	ND	
Total VOCs	ND	
Total cPAHs	8.09 ppm	
Total SVOCs	15.73 ppm	

B - 5 (12'-14')		
Arsenic	17 ppm	T2
Total BTEX	ND	
Total VOCs	1.05 ppm	
Total cPAHs	0.185 ppm	
Total SVOCs	0.532 ppm	

B - 4 (0'-2')		
Indeno(1,2,3-cd)Pyrene	0.56 ppm	T2
Arsenic	14 ppm	T1
Copper	120 ppm	T1
Lead	300 ppm	T1
Mercury	1.7 ppm	T2
Zinc	250 ppm	T1
Total BTEX	ND	
Total VOCs	0.0069 ppm	
Total cPAHs	4.36 ppm	
Total SVOCs	8.91 ppm	

B - 4 (12'-14')		
1,2,4-Trimethylbenzene	12.00 ppm	T1
Benzene	0.34 ppm	T1
Ethylbenzene	3.50 ppm	T1
Total Xylenes	2.18 ppm	T1
Benzo-a-Anthracene	6.20 ppm	T2
Benzo-a-Pyrene	6.40 ppm	T2
Benzo-b-Fluoranthene	7.50 ppm	T2
Benzo-k-Fluoranthene	2.90 ppm	T1
Chrysene	6.60 ppm	T2
Dibenzo-a,h-Anthracene	0.920 ppm	T2
Indeno(1,2,3-cd)Pyrene	4.00 ppm	T2
Arsenic	21 ppm	T2
Copper	4,500 ppm	T2
Lead	1,900 ppm	T2
Mercury	2.4 ppm	T2
Silver	3.2 ppm	T1
Zinc	240 ppm	T1
Total BTEX	6.23 ppm	
Total VOCs	26.90 ppm	
Total cPAHs	34.52 ppm	
Total SVOCs	86.30 ppm	

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TITLE:

FIGURE 5

SOIL CHEMISTRY RESULTS MAP

SITE:

275 4th AVENUE

BROOKLYN, NY
BLOCK 964, LOT 1

DRAWING NO: Figure 5

PROJECT NO.	5981-01-04-4001
DESIGNED BY:	KK
DRAWN BY:	BH
CHECKED BY:	KK
DATE:	2/19/2014
SCALE:	1" = 15'

REVISIONS NO:	DATE:

NOTES:

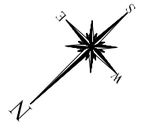
1. SOIL CHEMICAL RESULTS BASED ON LABORATORY REPORT #L1402992 DATED 2/14/14 BY ALPHA ANALYTICAL.
2. ONLY COMPOUNDS EXCEEDING TRACK 1 OR TRACK 2 SOIL CLEANUP OBJECTIVES ARE SHOWN, FOR ALL DETECTED CONCENTRATIONS REFER TO LAB REPORT #L1402992.
3. SOIL SAMPLES COLLECTED VIA SOIL BORINGS ON 2/4/14.

LEGEND:

B-x — SOIL BORING LOCATION

EXCEEDANCE OF TRACK 2 SOIL CLEAN UP OBJECTIVES (SCOs)

EXCEEDANCE OF TRACK 1 SOIL CLEAN UP OBJECTIVES (SCOs)



M W - 2	
1,2,4-Trimethylbenzene	16 ppb
n-Butylbenzene	16 ppb
n-Propylbenzene	96 ppb
sec-Butylbenzene	10 ppb
Benzo-a-Anthracene	0.06 ppb
Benzo-b-Fluoranthene	0.12 ppb
Chrysene	0.14 ppb
Total BTEX	2.6 ppb
Total VOCs	158.4 ppb
Total cPAHs	0.32 ppb
Total SVOCs	11.52 ppb

M W - 5	
Benzene	27 ppb
MTBE	20 ppb
n-Propylbenzene	25 ppb
sec-Butylbenzene	8.1 ppb
m,p Xylene	7.6 ppb
Total BTEX	41 ppb
Total VOCs	128.87 ppb
Total cPAHs	ND
Total SVOCs	1.8 ppb

M W - 4	
Benzo-a-Anthracene	0.72 ppb
Benzo-b-Fluoranthene	1.2 ppb
Benzo-k-Fluoranthene	0.65 ppb
Chrysene	0.96 ppb
Indeno(1,2,3-cd)Pyrene	0.91 ppb
Total BTEX	ND
Total VOCs	2 ppb
Total cPAHs	5.63 ppb
Total SVOCs	8.9 ppb

(EXISTING) MW-5

(EXISTING) MW-2

(EXISTING) MW-4

EXISTING BUILDING

SIDEWALK

1ST STREET

SIDEWALK

FOURTH AVENUE

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TITLE:

FIGURE 6

GROUNDWATER CHEMISTRY RESULTS MAP

SITE:

275 4th AVENUE

BROOKLYN, NY
BLOCK 964, LOT 1

DRAWING NO: Figure 6

PROJECT NO.	5981-01-04-4001
DESIGNED BY:	KK
DRAWN BY:	BH
CHECKED BY:	KK
DATE:	2/19/2014
SCALE:	1" = 15'

REVISIONS NO:	DATE:

NOTES:

1. GROUNDWATER CHEMICAL RESULTS BASED ON LABORATORY REPORT #L1402995 DATED 2/14/14 BY ALPHA ANALYTICAL.
2. ONLY COMPOUNDS EXCEEDING NYSDEC TOGS 1.1.1 GROUNDWATER QUALITY STANDARDS ARE SHOWN, FOR ALL DETECTED CONCENTRATIONS REFER TO LAB REPORT #L1402995.
3. GROUNDWATER SAMPLES COLLECTED FROM DEPICTED EXISTING MONITORING WELLS ON 2/4/14.

LEGEND:

MW-*x* — EXISTING GROUNDWATER MONITORING WELL LOCATION

EXCEEDANCE OF NYSDEC TOGS 1.1.1 GROUNDWATER QUALITY STANDARDS

SV-4	
1,1,1-TCA	ND
Carbon Tetrachloride	ND
PCE	ND
TCE	ND
Methylene Chloride	ND
Total BTEX	23.32 ug/m³
Total VOCs	98.89 ug/m³

SV-4

SV-1 SOIL VAPOR SAMPLE WAS INVALID DUE TO INTRUSION OF WATER INTO SAMPLE CANISTER VALVE

SV-1

SV-3	
1,1,1-TCA	ND
Carbon Tetrachloride	ND
PCE	ND
TCE	ND
Methylene Chloride	ND
Total BTEX	18 ug/m³
Total VOCs	4,497.3 ug/m³

SV-3

EXISTING BUILDING

SIDEWALK

SV-2

SV-2	
1,1,1-TCA	ND
Carbon Tetrachloride	ND
PCE	ND
TCE	ND
Methylene Chloride	ND
Total BTEX	66.34 ug/m³
Total VOCs	269.55 ug/m³

1ST STREET

SIDEWALK

FOURTH AVENUE

IMPACT ENVIRONMENTAL
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599

1000 PAGE AVENUE
LYNDHURST, NEW JERSEY 07071

TITLE:

FIGURE 7

SOIL VAPOR CHEMISTRY RESULTS MAP

SITE:

275 4th AVENUE

BROOKLYN, NY
BLOCK 964, LOT 1

DRAWING NO: Figure 7

PROJECT NO.	5981-01-04-4001
DESIGNED BY:	KK
DRAWN BY:	BH
CHECKED BY:	KK
DATE:	2/19/2014
SCALE:	1" = 15'

REVISIONS NO:	DATE:

NOTES:

1. SOIL VAPOR CHEMICAL RESULTS BASED ON LABORATORY REPORT #L1402926 DATED 2/13/14 BY ALPHA ANALYTICAL.
2. ONLY CHLORINATED VOC COMPOUNDS LISTED IN NYSDOH FINAL SOIL VAPOR INTRUSION GUIDANCE (OCTOBER 2006) TABLE 3.1 AND MATRICES 1 & 2 ARE SHOWN, FOR ALL DETECTED CONCENTRATIONS REFER TO LAB REPORT #L1402926.
3. SOIL VAPOR SAMPLES COLLECTED FROM 9-FT BELOW GRADE SURFACE FOR AN INTERVAL OF 2-HRS ON 2/4/14.

LEGEND:

SV-*x* SOIL VAPOR POINT LOCATION

TABLES

Table 1 - Soil Analysis Summary
275 4th Avenue, Brooklyn NY

CAS Number	Parameter Name	Parameter ID	NYCRR 375 Unrestricted Use	NYCRR 375 Restricted-Residential	B-1 (0-2')	B-1 (12-14')	B-2 (0-2')	B-2 (12-14')	B-3 (0-2')	B-3 (12-14')
		Depth			2' BGS	13' BGS	2' BGS	12' BGS	2' BGS	12' BGS
		Date			2/4/2014	2/4/2014	2/4/2014	2/4/2014	2/4/2014	2/4/2014
	Sample ID	Unit	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*
71-55-6	1,1,1-Trichloroethane (TCA)	VOC	680	100,000a	ND	ND	ND	ND	ND	ND
75-34-3	1,1-Dichloroethane	VOC	270	26,000	ND	ND	ND	ND	ND	ND
75-35-4	1,1-Dichloroethene	VOC	330	100,000a	ND	ND	ND	ND	ND	ND
95-63-6	1,2,4-Trimethylbenzene	VOC	3,600	52,000	ND	3.4 J	ND	ND	ND	2700
95-50-1	1,2-Dichlorobenzene	VOC	1,100	100,000a	ND	ND	ND	ND	ND	ND
107-06-2	1,2-Dichloroethane	VOC	20c	3,100	ND	ND	ND	ND	ND	ND
108-67-8	1,3,5-Trimethylbenzene	VOC	8,400	52,000	ND	2.4 J	ND	ND	ND	550 J
541-73-1	1,3-Dichlorobenzene	VOC	2,400	49,000	ND	ND	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	VOC	1,800	13,000	ND	ND	ND	ND	ND	ND
123-91-1	1,4-Dioxane	VOC	100b	13,000	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	VOC	120	100,000a	ND	ND	ND	ND	ND	ND
67-64-1	Acetone	VOC	50	100,000b	ND	ND	ND	12	ND	ND
71-43-2	Benzene	VOC	60	4,800	ND	4.5	ND	ND	ND	ND
56-23-5	Carbon Tetrachloride	VOC	760	2,400	ND	ND	ND	ND	ND	ND
108-90-7	Chlorobenzene	VOC	1,100	100,000a	ND	ND	ND	ND	ND	ND
67-66-3	Chloroform	VOC	370	49,000	ND	ND	ND	ND	ND	ND
156-59-2	cis-1,2-Dichloroethene	VOC	250	100,000a	ND	ND	ND	ND	ND	ND
100-41-4	Ethylbenzene	VOC	1,000	41,000	ND	1.4	ND	ND	ND	ND
75-09-2	Methylene Chloride	VOC	50	100,000a	ND	ND	ND	ND	ND	ND
1634-04-4	Methyl Tert-Butyl Ether	VOC	930	100,000a	ND	3.7	ND	ND	ND	ND
91-20-3	Naphthalene	SVOC	12,000	100,000a	ND	ND	ND	ND	170 J	ND
104-51-8	n-Butylbenzene	VOC	12,000	100,000a	ND	8	ND	240	ND	280 J
103-65-1	n-Propylbenzene	VOC	3,900	100,000a	ND	17	ND	780	ND	640
135-98-8	sec-Butylbenzene	VOC	11,000	100,000a	ND	8.8	ND	150	ND	340
98-06-6	tert-Butylbenzene	VOC	5,900	100,000a	ND	1 J	ND	ND	ND	ND
127-18-4	Tetrachloroethene (PCE)	VOC	1,300	19,000	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	VOC	700	100,000a	ND	ND	ND	ND	ND	360 J
1330-20-7	Total Xylenes	VOC	260	100,000a	ND	4.14	ND	ND	ND	580 J
156-60-5	trans-1,2-Dichloroethene	VOC	190	100,000a	ND	ND	ND	ND	ND	ND
79-01-6	Trichloroethene (TCE)	VOC	470	21,000	ND	ND	ND	ND	ND	ND
75-01-4	Vinyl Chloride	VOC	20	900	ND	ND	ND	ND	ND	ND
	Total BTEX				ND	10.04	ND	ND	ND	940 J
	Total VOCs				ND	54.34	ND	1182	170 J	5450

Table 1 - Soil Analysis Summary
275 4th Avenue, Brooklyn NY

CAS Number	Parameter Name	Parameter ID	NYCRR 375 Unrestricted Use	NYCRR 375 Restricted-Residential	B-4 (0-2')	B-4 (12-14')	B-5 (0-2')	B-5 (12-14')
		Depth			2' BGS	12' BGS	2' BGS	13' BGS
		Date			2/4/2014	2/4/2014	2/4/2014	2/4/2014
	Sample ID	Unit	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*
71-55-6	1,1,1-Trichloroethane (TCA)	VOC	680	100,000a	ND	ND	ND	ND
75-34-3	1,1-Dichloroethane	VOC	270	26,000	ND	ND	ND	ND
75-35-4	1,1-Dichloroethene	VOC	330	100,000a	ND	ND	ND	ND
95-63-6	1,2,4-Trimethylbenzene	VOC	3,600	52,000	ND	12000	ND	ND
95-50-1	1,2-Dichlorobenzene	VOC	1,100	100,000a	ND	ND	ND	ND
107-06-2	1,2-Dichloroethane	VOC	20c	3,100	ND	ND	ND	ND
108-67-8	1,3,5-Trimethylbenzene	VOC	8,400	52,000	ND	3200	ND	ND
541-73-1	1,3-Dichlorobenzene	VOC	2,400	49,000	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	VOC	1,800	13,000	ND	ND	ND	ND
123-91-1	1,4-Dioxane	VOC	100b	13,000	ND	ND	ND	ND
78-93-3	2-Butanone	VOC	120	100,000a	ND	ND	ND	ND
67-64-1	Acetone	VOC	50	100,000b	6.9 J	ND	ND	ND
71-43-2	Benzene	VOC	60	4,800	ND	340	ND	ND
56-23-5	Carbon Tetrachloride	VOC	760	2,400	ND	ND	ND	ND
108-90-7	Chlorobenzene	VOC	1,100	100,000a	ND	ND	ND	ND
67-66-3	Chloroform	VOC	370	49,000	ND	ND	ND	ND
156-59-2	cis-1,2-Dichloroethene	VOC	250	100,000a	ND	ND	ND	ND
100-41-4	Ethylbenzene	VOC	1,000	41,000	ND	3500	ND	ND
75-09-2	Methylene Chloride	VOC	50	100,000a	ND	ND	ND	ND
1634-04-4	Methyl Tert-Butyl Ether	VOC	930	100,000a	ND	ND	ND	ND
91-20-3	Naphthalene	SVOC	12,000	100,000a	ND	2200	ND	ND
104-51-8	n-Butylbenzene	VOC	12,000	100,000a	ND	510	ND	ND
103-65-1	n-Propylbenzene	VOC	3,900	100,000a	ND	2500	ND	520 J
135-98-8	sec-Butylbenzene	VOC	11,000	100,000a	ND	260	ND	530 J
98-06-6	tert-Butylbenzene	VOC	5,900	100,000a	ND	ND	ND	ND
127-18-4	Tetrachloroethene (PCE)	VOC	1,300	19,000	ND	ND	ND	ND
108-88-3	Toluene	VOC	700	100,000a	ND	210	ND	ND
1330-20-7	Total Xylenes	VOC	260	100,000a	ND	2180	ND	ND
156-60-5	trans-1,2-Dichloroethene	VOC	190	100,000a	ND	ND	ND	ND
79-01-6	Trichloroethene (TCE)	VOC	470	21,000	ND	ND	ND	ND
75-01-4	Vinyl Chloride	VOC	20	900	ND	ND	ND	ND
	Total BTEX				ND	6230	ND	ND
	Total VOCs				6.9 J	26900	ND	1050 J

Table 1 - Soil Analysis Summary
275 4th Avenue, Brooklyn NY

CAS Number	Parameter Name	Parameter ID	NYCRR 375 Unrestricted Use	NYCRR 375 Restricted-Residential	B-1 (0-2')	B-1 (12-14')	B-2 (0-2')	B-2 (12-14')	B-3 (0-2')	B-3 (12-14')
		Depth			2' BGS	13' BGS	2' BGS	12' BGS	2' BGS	12' BGS
		Date			2/4/2014	2/4/2014	2/4/2014	2/4/2014	2/4/2014	2/4/2014
	Sample ID	Unit	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*
83-32-9	Acenaphthene	SVOC	20,000	100,000a	310 J	ND	430 J	ND	420	ND
208-96-8	Acenaphthylene	SVOC	100,000a	100,000a	ND	ND	370 J	ND	250	ND
120-12-7	Anthracene	SVOC	100,000a	100,000a	610	ND	1600	ND	740	68 J
56-55-3	Benzo-a-Anthracene	SVOC	1,000c	**1,000f**	**1400**	ND	**4900**	ND	**1500**	250
50-32-8	Benzo-a-Pyrene	SVOC	1,000c	**1,000f**	**1300**	ND	**4500**	ND	**1400**	260
205-99-2	Benzo-b-Fluoranthene	SVOC	1,000c	**1,000f**	**1600**	ND	**5900**	ND	**1700**	330
207-08-9	Benzo-k-Fluoranthene	SVOC	800c	3,900	610	ND	2200	ND	700	120 J
191-24-2	Benzo-g,h,i-Perylene	SVOC	100,000	100,000a	850	ND	2100	ND	760	140 J
218-01-9	Chrysene	SVOC	1,000c	**3,900**	1600	ND	**4700**	ND	1700	280
132-64-9	Dibenzofuran	SVOC	7,000	59,000	ND	ND	310 J	ND	320	ND
53-70-3	Dibenzo-a,h-Anthracene	SVOC	330b	**330e**	ND	ND	**570**	ND	220	ND
206-44-0	Fluoranthene	SVOC	100,000	100,000a	3200	39 J	8900	37 J	3600	530
86-73-7	Fluorene	SVOC	30,000	100,000a	ND	ND	430 J	ND	460	ND
118-74-1	Hexachlorobenzene	SVOC	330	1,200	ND	ND	ND	ND	ND	ND
193-39-5	Indeno(1,2,3-cd)Pyrene	SVOC	500c	**500f**	**900**	ND	**2400**	ND	**780**	160 J
85-01-8	Phenanthrene	SVOC	100,000	100,000a	2900	ND	5700	45 J	3500	260
129-00-0	Pyrene	SVOC	100,000	100,000a	2600	ND	7700	ND	3000	460
	Total cPAHs				7,410	ND	25170	ND	8,000	1,400
	Total SVOCs				17,880	39 J	52,710	82 J	21,050	2,858

Table 1 - Soil Analysis Summary
275 4th Avenue, Brooklyn NY

CAS Number	Parameter Name	Parameter ID	NYCRR 375 Unrestricted Use	NYCRR 375 Restricted-Residential	B-4 (0-2')	B-4 (12-14')	B-5 (0-2')	B-5 (12-14')
		Depth			2' BGS	12' BGS	2' BGS	13' BGS
		Date			2/4/2014	2/4/2014	2/4/2014	2/4/2014
	Sample ID	Unit	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*
83-32-9	Acenaphthene	SVOC	20,000	100,000a	ND	2100	ND	ND
208-96-8	Acenaphthylene	SVOC	100,000a	100,000a	ND	270 J	ND	ND
120-12-7	Anthracene	SVOC	100,000a	100,000a	ND	3000	340 J	ND
56-55-3	Benzo-a-Anthracene	SVOC	1,000c	**1,000f**	810 J	**6200**	**1500**	62 J
50-32-8	Benzo-a-Pyrene	SVOC	1,000c	**1,000f**	780 J	**6400**	**1500**	ND
205-99-2	Benzo-b-Fluoranthene	SVOC	1,000c	**1,000f**	950 J	**7500**	**1800**	60 J
207-08-9	Benzo-k-Fluoranthene	SVOC	800c	3,900	390 J	2900	790 J	ND
191-24-2	Benzo-g,h,i-Perylene	SVOC	100,000	100,000a	550 J	3700	1100 J	ND
218-01-9	Chrysene	SVOC	1,000c	**3,900**	870 J	**6600**	1500	63 J
132-64-9	Dibenzofuran	SVOC	7,000	59,000	ND	910	ND	ND
53-70-3	Dibenzo-a,h-Anthracene	SVOC	330b	**330e**	ND	**920**	ND	ND
206-44-0	Fluoranthene	SVOC	100,000	100,000a	1600	14000	2600	150
86-73-7	Fluorene	SVOC	30,000	100,000a	ND	1800	ND	ND
118-74-1	Hexachlorobenzene	SVOC	330	1,200	ND	ND	ND	ND
193-39-5	Indeno(1,2,3-cd)Pyrene	SVOC	500c	**500f**	**560 J**	**4000**	**1000 J**	ND
85-01-8	Phenanthrene	SVOC	100,000	100,000a	1000 J	13000	1100	67 J
129-00-0	Pyrene	SVOC	100,000	100,000a	1400	13000	2500	130
	Total cPAHs				4360 J	34520	8090	185 J
	Total SVOCs				8,910	86300	15730	532

Table 1 - Soil Analysis Summary
275 4th Avenue, Brooklyn NY

CAS Number	Parameter Name	Parameter ID	NYCRR 375 Unrestricted Use	NYCRR 375 Restricted-Residential	B-1 (0-2')	B-1 (12-14')	B-2 (0-2')	B-2 (12-14')	B-3 (0-2')	B-3 (12-14')
		Depth			2' BGS	13' BGS	2' BGS	12' BGS	2' BGS	12' BGS
		Date			2/4/2014	2/4/2014	2/4/2014	2/4/2014	2/4/2014	2/4/2014
	Sample ID	Unit	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*
93-72-1	2,4,5-TP Acid	PESTICIDE	3,800	100,000a	ND	ND	ND	ND	ND	ND
72-54-8	4,4-DDD	PESTICIDE	3.3b	13,000	ND	ND	6.96 P	ND	ND	ND
72-55-9	4,4-DDE	PESTICIDE	3.3b	8,900	ND	ND	18.1	ND	ND	ND
50-29-3	4,4-DDT	PESTICIDE	3.3b	7,900	ND	ND	21.8	ND	1.9 J	ND
309-00-2	Aldrin	PESTICIDE	5c	97	ND	ND	ND	ND	ND	ND
319-84-6	alpha-BHC	PESTICIDE	20	480	ND	ND	ND	ND	ND	ND
5103-71-9	Alpha Chlordane	PESTICIDE	94	4,200	ND	ND	7.95 P	ND	ND	ND
12674-11-2	Aroclor 1016	PCB	NA	NA	ND	ND	ND	ND	ND	ND
1104-28-2	Aroclor 1221	PCB	NA	NA	ND	ND	ND	ND	ND	ND
11141-16-5	Aroclor 1232	PCB	NA	NA	ND	ND	ND	ND	ND	ND
53469-21-9	Aroclor 1242	PCB	NA	NA	ND	ND	ND	ND	ND	ND
12672-29-6	Aroclor 1248	PCB	NA	NA	ND	ND	ND	ND	ND	ND
11097-69-1	Aroclor 1254	PCB	NA	NA	ND	ND	ND	ND	ND	ND
11096-82-5	Aroclor 1260	PCB	NA	NA	17.8 J	ND	22.2 J	ND	ND	ND
319-85-7	beta-BHC	PESTICIDE	36	360	ND	ND	ND	ND	ND	ND
319-86-8	delta-BHC	PESTICIDE	40	100,000a	ND	ND	ND	ND	ND	ND
60-57-1	Dieldrin	PESTICIDE	5	200	ND	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	PESTICIDE	2,400	24,000i	ND	ND	ND	ND	ND	ND
33213-65-9	Endosulfan II	PESTICIDE	2,400	24,000i	ND	ND	4.41 P	ND	ND	ND
1031-07-8	Endosulfan Sulfate	PESTICIDE	2,400	24,000i	ND	ND	ND	ND	ND	ND
72-20-8	Endrin	PESTICIDE	14	11,000	ND	ND	ND	ND	ND	ND
58-89-9	gamma-BHC	PESTICIDE	100	1,300	ND	ND	ND	ND	ND	ND
76-44-8	Heptachlor	PESTICIDE	42	2,100	ND	ND	ND	ND	ND	ND
1336-36-3	Polychlorinated Biphenyls	PESTICIDE	100	1,000	17.8 J	ND	22.2 J	ND	ND	ND
	Unit		*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
7440-38-2	Arsenic, As	METAL	13c	**16f**	**16**	9.4	12	6.8	8.6	11
7440-39-3	Barium, Ba	METAL	350c	400	260	58	250	20	61	110
7440-41-7	Beryllium, Be	METAL	7.2	72	0.31 J	0.31 J	0.22 J	0.27 J	0.32 J	0.46 J
7440-43-9	Cadmium, Cd	METAL	2.5c	4.3	0.4 J	ND	0.54 J	ND	ND	ND
7440-47-3	Chromium, Cr	METAL	NA	110	19	15	15	10	17	43
18540-29-9	Chromium, hexavalent	METAL	1b	110	ND	ND	ND	ND	ND	ND
16065-83-1	Chromium, trivalent	METAL	30c	180	19	15	15	10	17	43
7440-50-8	Copper, Cu	METAL	50	**270**	130	35	100	11	48	90
57-12-5	Cyanide	METAL	27	27	0.45 J	ND	ND	ND	ND	0.79
7439-92-1	Lead, Pb	METAL	63c	**400**	**1000**	48	**640**	8.8	250	**690**
7439-96-5	Manganese, Mn	METAL	1,600c	2,000f	210	320	180	180	200	200
7439-97-6	Mercury, Hg	METAL	.18c	**.81j**	**29**	0.11	**2.4**	ND	**2.1**	**1.6**
7440-02-0	Nickel, Ni	METAL	30	310	18	24	16	8.2	35	30
7782-49-2	Selenium, Se	METAL	3.9c	180	1.2 J	ND	ND	ND	ND	0.95 J
7440-22-4	Silver, Ag	METAL	2	180	0.32 J	ND	0.3 J	ND	ND	ND
7440-66-6	Zinc, Zn	METAL	109c	10,000d	360	55	340	28	110	130

Notes: Shaded values indicate an exceedance of NYCRR 375 Restricted Residential and NYCRR 375 Unrestriced Use values.

J = Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit

Table 1 - Soil Analysis Summary
275 4th Avenue, Brooklyn NY

CAS Number	Parameter Name	Parameter ID	NYCRR 375 Unrestricted Use	NYCRR 375 Restricted-Residential	B-4 (0-2')	B-4 (12-14')	B-5 (0-2')	B-5 (12-14')
		Depth			2' BGS	12' BGS	2' BGS	13' BGS
		Date			2/4/2014	2/4/2014	2/4/2014	2/4/2014
	Sample ID	Unit	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*
93-72-1	2,4,5-TP Acid	PESTICIDE	3,800	100,000a	ND	ND	ND	ND
72-54-8	4,4-DDD	PESTICIDE	3.3b	13,000	ND	ND	ND	ND
72-55-9	4,4-DDE	PESTICIDE	3.3b	8,900	ND	ND	ND	ND
50-29-3	4,4-DDT	PESTICIDE	3.3b	7,900	ND	ND	ND	ND
309-00-2	Aldrin	PESTICIDE	5c	97	ND	ND	ND	ND
319-84-6	alpha-BHC	PESTICIDE	20	480	ND	ND	ND	ND
5103-71-9	Alpha Chlordane	PESTICIDE	94	4,200	ND	ND	ND	ND
12674-11-2	Aroclor 1016	PCB	NA	NA	ND	ND	ND	ND
1104-28-2	Aroclor 1221	PCB	NA	NA	ND	ND	ND	ND
11141-16-5	Aroclor 1232	PCB	NA	NA	ND	ND	ND	ND
53469-21-9	Aroclor 1242	PCB	NA	NA	ND	ND	ND	ND
12672-29-6	Aroclor 1248	PCB	NA	NA	ND	ND	ND	ND
11097-69-1	Aroclor 1254	PCB	NA	NA	ND	ND	ND	ND
11096-82-5	Aroclor 1260	PCB	NA	NA	10.8 J	ND	ND	ND
319-85-7	beta-BHC	PESTICIDE	36	360	ND	ND	ND	ND
319-86-8	delta-BHC	PESTICIDE	40	100,000a	ND	ND	ND	ND
60-57-1	Dieldrin	PESTICIDE	5	200	ND	ND	ND	ND
959-98-8	Endosulfan I	PESTICIDE	2,400	24,000i	ND	ND	ND	ND
33213-65-9	Endosulfan II	PESTICIDE	2,400	24,000i	ND	ND	ND	ND
1031-07-8	Endosulfan Sulfate	PESTICIDE	2,400	24,000i	ND	ND	ND	ND
72-20-8	Endrin	PESTICIDE	14	11,000	ND	ND	ND	ND
58-89-9	gamma-BHC	PESTICIDE	100	1,300	ND	ND	ND	ND
76-44-8	Heptachlor	PESTICIDE	42	2,100	ND	ND	ND	ND
1336-36-3	Polychlorinated Biphenyls	PESTICIDE	100	1,000	10.8 J	ND	ND	ND
	Unit		*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
7440-38-2	Arsenic, As	METAL	13c	**16f**	14	**21**	10	**17**
7440-39-3	Barium, Ba	METAL	350c	400	85	340	120	36
7440-41-7	Beryllium, Be	METAL	7.2	72	0.26 J	0.34 J	0.29 J	0.34 J
7440-43-9	Cadmium, Cd	METAL	2.5c	4.3	0.39 J	ND	0.16 J	ND
7440-47-3	Chromium, Cr	METAL	NA	110	16	15	14	14
18540-29-9	Chromium, hexavalent	METAL	1b	110	ND	ND	ND	ND
16065-83-1	Chromium, trivalent	METAL	30c	180	16	15	14	14
7440-50-8	Copper, Cu	METAL	50	**270**	120	**4500**	75	16
57-12-5	Cyanide	METAL	27	27	0.55	4.5	2.2	ND
7439-92-1	Lead, Pb	METAL	63c	**400**	300	**1900**	**450**	18
7439-96-5	Manganese, Mn	METAL	1,600c	2,000f	240	120	190	170
7439-97-6	Mercury, Hg	METAL	.18c	**.81j**	**1.7**	**2.4**	**3**	0.16
7440-02-0	Nickel, Ni	METAL	30	310	17	26	18	26
7782-49-2	Selenium, Se	METAL	3.9c	180	ND	2.9	0.36 J	1.8 J
7440-22-4	Silver, Ag	METAL	2	180	0.17 J	3.2	0.19 J	ND
7440-66-6	Zinc, Zn	METAL	109c	10,000d	250	240	280	43

Notes: Shaded values indicate an exceedance of NYCRR 375 Restricted Residential and NYCRR 375 Unrestriced Use values.

J = Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit

Table 2 - Groundwater Analysis Summary
275 4th Avenue, Brooklyn NY

CAS Number	Parameter Name	Parameter ID	NYSDEC TOGS 1.1.1 Groundwater Quality Standards	MW-2	MW-4	MW-5	MW-2D
		GW Depth		12.67 ft	11.68 ft	11.23 ft	12.67 ft
		Date		2/4/2014	2/4/2014	2/4/2014	2/4/2014
	Sample ID	Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
71-55-6	1,1,1-Trichloroethane (TCA)	VOC	5	ND	ND	ND	ND
75-34-3	1,1-Dichloroethane	VOC	5	ND	ND	ND	ND
75-35-4	1,1-Dichloroethene	VOC	5	ND	ND	ND	ND
95-63-6	1,2,4-Trimethylbenzene	VOC	5	16	ND	1.8 J	14
95-50-1	1,2-Dichlorobenzene	VOC	3	ND	ND	ND	ND
107-06-2	1,2-Dichloroethane	VOC	0.6	ND	ND	ND	ND
108-67-8	1,3,5-Trimethylbenzene	VOC	5	1.4 J	ND	1.9 J	ND
541-73-1	1,3-Dichlorobenzene	VOC	3	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	VOC	3	ND	ND	ND	ND
123-91-1	1,4-Dioxane	VOC	NS	ND	ND	ND	ND
110-57-6	trans-1,4-Dichloro-2-butene	VOC	5	ND	ND	ND	ND
78-93-3	2-Butanone	VOC	50	ND	ND	ND	ND
67-64-1	Acetone	VOC	50	13	2 J	18	11
71-43-2	Benzene	VOC	1	ND	ND	27	0.63 J
56-23-5	Carbon Tetrachloride	VOC	5	ND	ND	ND	ND
108-90-7	Chlorobenzene	VOC	5	ND	ND	ND	ND
67-66-3	Chloroform	VOC	7	ND	ND	ND	ND
156-59-2	cis-1,2-Dichloroethene	VOC	5	ND	ND	ND	ND
100-41-4	Ethylbenzene	VOC	5	2.6 J	ND	ND	2.6 J
75-09-2	Methylene Chloride	VOC	5	ND	ND	ND	ND
1634-04-4	Methyl Tert-Butyl Ether	VOC	10	ND	ND	20	ND
91-20-3	Naphthalene	SVOC	10	3.4 J	ND	ND	3.2 J
104-51-8	n-Butylbenzene	VOC	5	16	ND	1.5 J	15
103-65-1	n-Propylbenzene	VOC	5	96	ND	25	97
135-98-8	sec-Butylbenzene	VOC	5	10	ND	8.1	10
98-06-6	tert-Butylbenzene	VOC	5	ND	ND	0.97 J	ND
127-18-4	Tetrachloroethene (PCE)	VOC	5	ND	ND	ND	ND
108-88-3	Toluene	VOC	5	ND	ND	3.4	ND
95-47-6	o Xylene	VOC	5	ND	ND	3	ND
	m,p Xylene	VOC	5	ND	ND	7.6	ND
1330-20-7	Total Xylenes	VOC	NS	ND	ND	10.6	ND
156-60-5	trans-1,2-Dichloroethene	VOC	5	ND	ND	ND	ND
79-01-6	Trichloroethene (TCE)	VOC	5	ND	ND	ND	ND
75-01-4	Vinyl Chloride	VOC	2	ND	ND	ND	ND
	Total BTEX			2.6 J	ND	41	3.23 J
	Total VOCs			158.4	2J	128.87	153.43
83-32-9	Acenaphthene	SVOC	20	2.7	ND	0.86	-
208-96-8	Acenaphthylene	SVOC	NS	ND	ND	ND	-
120-12-7	Anthracene	SVOC	50	0.27	ND	0.06 J	-
56-55-3	Benzo-a-Anthracene	SVOC	0.002	0.06 J	0.72	ND	-
50-32-8	Benzo-a-Pyrene	SVOC	NS	ND	0.87	ND	-
205-99-2	Benzo-b-Fluoranthene	SVOC	0.002	0.12 J	1.2	ND	-
207-08-9	Benzo-k-Fluoranthene	SVOC	0.002	ND	0.65	ND	-
191-24-2	Benzo-g,h,i-Perylene	SVOC	NS	ND	0.83	ND	-
218-01-9	Chrysene	SVOC	0.002	0.14 J	0.96	ND	-
132-64-9	Dibenzofuran	SVOC	NS	1.4 J	ND	ND	-
53-70-3	Dibenzo-a,h-Anthracene	SVOC	NS	ND	0.34 J	ND	-
206-44-0	Fluoranthene	SVOC	50	0.85	1.2	0.24	-
86-73-7	Fluorene	SVOC	50	2.3	ND	0.21	-
118-74-1	Hexachlorobenzene	SVOC	0.04	ND	ND	ND	-
193-39-5	Indeno(1,2,3-cd)Pyrene	SVOC	0.002	ND	0.91	ND	-
95-94-3	1,2,4,5-Tetrachlorobenzene	SVOC	5	ND	ND	ND	-
85-01-8	Phenanthrene	SVOC	50	3.2	0.27 J	0.28	-
129-00-0	Pyrene	SVOC	50	0.48	0.95	0.19 J	-
	Total cPAHs			0.32 J	5.63	ND	-
	Total SVOCs			11.52	8.9	1.8	-

Table 2 - Groundwater Analysis Summary
275 4th Avenue, Brooklyn NY

CAS Number	Parameter Name	Parameter ID	NYSDEC TOGS 1.1.1 Groundwater Quality Standards	MW-2	MW-4	MW-5	MW-2D
		GW Depth		12.67 ft	11.68 ft	11.23 ft	12.67 ft
		Date		2/4/2014	2/4/2014	2/4/2014	2/4/2014
	Sample ID	Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
72-54-8	4,4-DDD	PESTICIDE	0.3	ND	ND	ND	-
72-55-9	4,4-DDE	PESTICIDE	0.2	ND	ND	ND	-
50-29-3	4,4-DDT	PESTICIDE	0.2	ND	ND	ND	-
309-00-2	Aldrin	PESTICIDE	0	ND	ND	ND	-
319-84-6	alpha-BHC	PESTICIDE	0.01	ND	ND	ND	-
5103-71-9	Alpha Chlordane	PESTICIDE	NS	ND	ND	ND	-
12674-11-2	Aroclor 1016	PCB	NS	ND	ND	ND	-
1104-28-2	Aroclor 1221	PCB	NS	ND	ND	ND	-
11141-16-5	Aroclor 1232	PCB	NS	ND	ND	ND	-
53469-21-9	Aroclor 1242	PCB	NS	ND	ND	ND	-
12672-29-6	Aroclor 1248	PCB	NS	ND	ND	ND	-
11097-69-1	Aroclor 1254	PCB	NS	ND	ND	ND	-
11096-82-5	Aroclor 1260	PCB	NS	ND	ND	ND	-
319-85-7	beta-BHC	PESTICIDE	0.04	ND	ND	ND	-
319-86-8	delta-BHC	PESTICIDE	0.04	ND	ND	ND	-
60-57-1	Dieldrin	PESTICIDE	0.004	ND	ND	ND	-
959-98-8	Endosulfan I	PESTICIDE	NS	ND	ND	ND	-
33213-65-9	Endosulfan II	PESTICIDE	NS	ND	ND	ND	-
1031-07-8	Endosulfan Sulfate	PESTICIDE	NS	ND	ND	ND	-
72-20-8	Endrin	PESTICIDE	0	ND	ND	ND	-
58-89-9	gamma-BHC	PESTICIDE	0.05	ND	ND	ND	-
76-44-8	Heptachlor	PESTICIDE	0.04	ND	ND	ND	-
1336-36-3	Polychlorinated Biphenyls	PESTICIDE	0.09	ND	ND	ND	-
	Unit		*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
7440-38-2	Arsenic, As - Dissolved	METAL	25	0.0033	0.00605	0.00627	-
7440-39-3	Barium, Ba - Dissolved	METAL	1000	0.1022	0.07778	0.1366	-
7440-41-7	Beryllium, Be - Dissolved	METAL	3	ND	ND	ND	-
7440-43-9	Cadmium, Cd - Dissolved	METAL	5	ND	0.00012 J	ND	-
7440-47-3	Chromium, Cr - Dissolved	METAL	50	0.00082 J	0.00133	0.00248	-
7440-48-4	Cobalt, Co - Dissolved	METAL	NS	0.00043 J	0.00164	0.0005	-
7440-50-8	Copper, Cu - Dissolved	METAL	200	0.00055 J	0.00756	0.0011	-
7439-89-6	Iron, Fe - Dissolved	METAL	300	2.68	0.408	10.3	-
7439-92-1	Lead, Pb - Dissolved	METAL	25	ND	0.02326	0.00123	-
7439-96-5	Manganese, Mn - Dissolved	METAL	300	0.6338	0.1264	1.732	-
7439-97-6	Mercury, Hg - Dissolved	METAL	0.7	ND	ND	ND	-
7440-02-0	Nickel, Ni - Dissolved	METAL	100	0.00592	0.00416	0.00452	-
7782-49-2	Selenium, Se - Dissolved	METAL	10	0.00156 J	0.00205 J	0.00125 J	-
7440-22-4	Silver, Ag - Dissolved	METAL	50	ND	0.00032 J	ND	-
7440-28-0	Thallium, Tl - Dissolved	METAL	0.5	ND	0.00007 J	ND	-
7440-62-2	Vanadium, V - Dissolved	METAL	NS	0.00018 J	0.00792	0.00084 J	-
7440-66-6	Zinc, Zn - Dissolved	METAL	2000	0.02335	0.1026	0.01452	-
7440-38-2	Arsenic, As - Total	METAL	25	0.02406	0.03614	0.01095	-
7440-39-3	Barium, Ba - Total	METAL	1000	0.3761	0.4036	0.1987	-
7440-41-7	Beryllium, Be - Total	METAL	3	0.00111 J	ND	0.0002 J	-
7440-43-9	Cadmium, Cd - Total	METAL	5	0.00313	0.00455	0.00016 J	-
7440-47-3	Chromium, Cr - Total	METAL	50	0.02515	0.01355	0.00591	-
7440-48-4	Cobalt, Co - Total	METAL	NS	0.01258	0.01013	0.00223	-
7440-50-8	Copper, Cu - Total	METAL	200	0.2804	0.3471	0.00586	-
7439-89-6	Iron, Fe - Total	METAL	300	55.5	19.2	21.1	-
7439-92-1	Lead, Pb - Total	METAL	25	4.97	1.322	0.04664	-
7439-96-5	Manganese, Mn - Total	METAL	300	1.396	0.3464	1.558	-
7439-97-6	Mercury, Hg - Total	METAL	0.7	0.00128	0.0012	ND	-
7440-02-0	Nickel, Ni - Total	METAL	100	0.03409	0.02426	0.01108	-
7782-49-2	Selenium, Se - Total	METAL	10	ND	0.00906 J	0.00096 J	-
7440-22-4	Silver, Ag - Total	METAL	50	ND	ND	ND	-
7440-28-0	Thallium, Tl - Total	METAL	0.5	ND	0.00047 J	ND	-
7440-62-2	Vanadium, V - Total	METAL	NS	0.05468	0.06138	0.00839	-
7440-66-6	Zinc, Zn - Total	METAL	2000	2.776	1.585	0.1384	-

Notes: Shaded values indicate an exceedance of NYSDEC TOGS 1.1.1 Groundwater Quality Standards

J = Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit

Table 3 - Soil Vapor Analysis Summary
275 4th Avenue, Brooklyn NY

CAS Number	Parameter Name	NYSDOH FINAL SVI GUIDANCE TABLE 3.1 AIR GUIDE LINES	EPA 2001: BASE Database Indoor Air (90th)	SV-2	SV-3	SV-4
			Probe Depth	9-ft	9-ft	9-ft
			Date	2/4/2014	2/4/2014	2/4/2014
	Sample ID		ug/m^3	ug/m^3	ug/m^3	ug/m^3
71-55-6	1,1,1-Trichloroethane (TCA)	-	20.6	ND	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	-	NA	ND	ND	ND
79-00-5	1,1,2-Trichloroethane	-	1.5	ND	ND	ND
76-13-1	1,1,2 Trichloro-1,2,2 Trifluoroethane	-	NA	ND	ND	ND
75-34-3	1,1-Dichloroethane	-	0.7	1.77	ND	ND
75-35-4	1,1-Dichloroethene	-	1.4	ND	ND	ND
95-63-6	1,2,4-Trimethylbenzene	-	9.5	13.6	ND	ND
106-93-4	1,2-Dibromoethane	-	1.5	ND	ND	ND
95-50-1	1,2-Dichlorobenzene	-	1.2	ND	ND	ND
107-06-2	1,2-Dichloroethane	-	0.9	ND	ND	ND
78-87-5	1,2-Dichloropropane	-	1.6	ND	ND	ND
120-82-1	1,2,4-Trichlorobenzene	-	6.8	ND	ND	ND
108-67-8	1,3,5-Trimethylbenzene	-	3.7	5.21	ND	ND
541-73-1	1,3-Dichlorobenzene	-	2.4	ND	ND	ND
106-99-0	1,3-Butadiene	-	3	6.35	14.3	4.6
106-46-7	1,4-Dichlorobenzene	-	5.5	ND	ND	ND
123-91-1	1,4-Dioxane	-	NA	ND	ND	ND
540-84-1	2,2,4-Trimethylpentane	-	NA	38.1	3970	19.9
78-93-3	2-Butanone	-	12	3.3	11.4	4.93
591-78-6	2-Hexanone	-	NA	ND	ND	ND
108-10-1	4-Methyl-2-Pentanone	-	6	ND	ND	ND
107-05-1	3-Chloropropene	-	NA	ND	ND	ND
622-96-8	4-Ethyltoluene	-	3.6	2.77	ND	ND
67-64-1	Acetone	-	98.9	12.2	ND	14.4
71-43-2	Benzene	-	9.4	47.6	18	12
100-44-7	Benzyl chloride	-	6.8	ND	ND	ND
75-27-4	Bromodichloromethane	-	NA	ND	ND	ND
75-25-2	Bromoform	-	NA	ND	ND	ND
74-83-9	Bromomethane	-	1.7	ND	ND	ND
75-15-0	Carbon Disulfide	-	4.2	4.83	15	4.55
56-23-5	Carbon Tetrachloride	-	1.3	ND	ND	ND

Table 3 - Soil Vapor Analysis Summary
275 4th Avenue, Brooklyn NY

CAS Number	Parameter Name	NYSDOH FINAL SVI GUIDANCE TABLE 3.1 AIR GUIDE LINES	EPA 2001: BASE Database Indoor Air (90th)	SV-2	SV-3	SV-4
			Probe Depth	9-ft	9-ft	9-ft
			Date	2/4/2014	2/4/2014	2/4/2014
	Sample ID		ug/m^3	ug/m^3	ug/m^3	ug/m^3
108-90-7	Chlorobenzene	-	0.9	ND	ND	ND
124-48-1	Chlorodibromomethane	-	NA	ND	ND	ND
75-00-3	Chloroethane	-	1.1	1.34	ND	ND
67-66-3	Chloroform	-	1.1	1.32	ND	ND
74-87-3	Chloromethane	-	3.7	1.11	ND	ND
542-75-6	cis-1,3-Dichloropropene	-	2.3	ND	ND	ND
156-59-2	cis-1,2-Dichloroethene	-	1.9	ND	ND	ND
110-82-7	Cyclohexane	-	NA	8.26	108	1.59
75-71-8	Dichlorodifluoromethane	-	16.5	ND	ND	1.1
100-41-4	Ethylbenzene	-	5.7	2.22	ND	1.12
64-17-5	Ethanol	-	210	4.84	ND	ND
141-78-6	Ethyl Acetate	-	5.4	ND	ND	ND
76-14-2	Freon-114	-	NA	ND	ND	ND
142-82-5	Heptane	-	NA	23.6	51.6	5
87-68-3	Hexachlorobutadiene	-	6.8	ND	ND	ND
67-63-0	Isopropanol	-	250	ND	ND	ND
75-09-2	Methylene Chloride	60	10	ND	ND	ND
1634-04-4	Methyl Tert-Butyl Ether	-	11.5	1.94	ND	ND
110-54-3	n-Hexane	-	10.2	59.9	309	15.6
1330-20-7	p/m-Xylene	-	22.2	8.3	ND	2.74
95-47-6	o-Xylene	-	7.9	4.47	ND	ND
100-42-5	Styrene	-	1.9	ND	ND	ND
127-18-4	Tetrachloroethene (PCE)	30	15.9	ND	ND	ND
109-99-9	Tetrahydrofuran	-	NA	ND	ND	ND
108-88-3	Toluene	-	43	3.75	ND	7.46
1330-20-7	Total Xylenes	-	NA	12.77	ND	2.74
156-60-5	trans-1,2-Dichloroethene	-	NA	ND	ND	ND
10061-02-6	trans-1,3-Dichloropropene	-	1.3	ND	ND	ND
79-01-6	Trichloroethene (TCE)	5	4.2	ND	ND	ND
75-69-4	Trichlorofluoromethane	-	18.1	ND	ND	1.16
108-05-4	Vinyl Acetate	-	NA	ND	ND	ND
593-60-2	Vinyl bromide	-	NA	ND	ND	ND
75-01-4	Vinyl Chloride	-	1.9	ND	ND	ND
	Total BTEX			66.34	18	23.32
	Total VOCs			269.55	4497.3	98.89

Notes: Shaded values indicate an exceedance of NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York October 2006 - Table 3.1

Table 4 - Groundwater Level Log

275 4th Avenue, Brooklyn NY

Well ID	Date	Well Diameter (inches)	Total Well Depth (feet)	Well Head PID (PPM)	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (feet)	Remarks
MW-2	2/4/2014	2.00	14.45	32.3	12.67	ND	ND	
MW-4	2/4/2014	2.00	19.20	0.0	11.68	ND	ND	
MW-5	2/4/2014	2.00	17.80	36.4	11.23	ND	ND	

Notes:

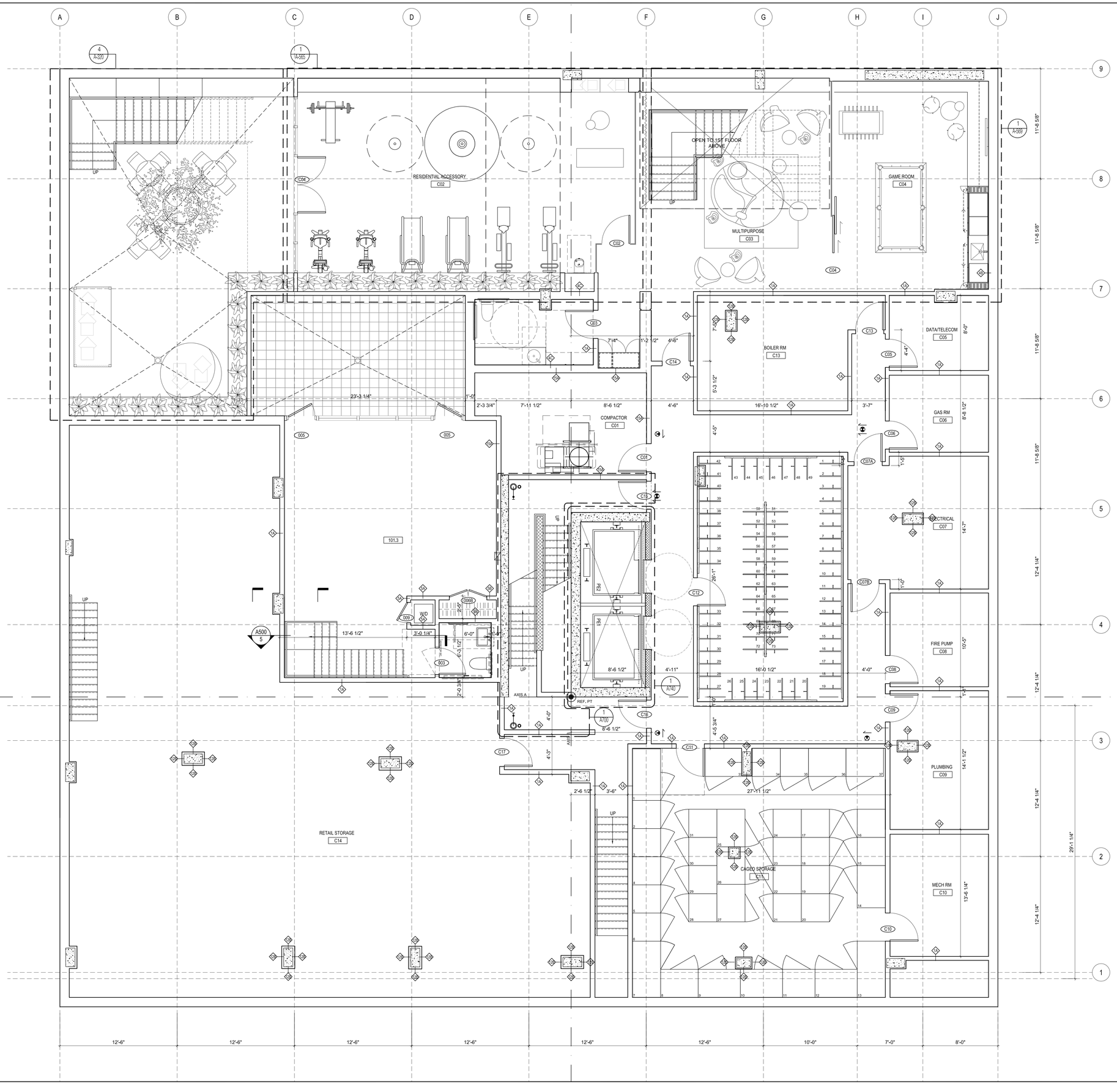
ND - Not Detected

NM - Not Measured

DTW - Depth to Water

APPENDIX – A

Proposed Redevelopment Plans



ODA

Office for Design & Architecture

484 Broadway 3rd Fl.
New York, New York 10012
646-479-7405

NO.	DATE	
	11.22.13	ISSUE FOR DOB
	3.10.14	ISSUE FOR 85% CD

CONSULTANTS

OWNER:
ADAM AMERICA REAL ESTATE
370 Lexington Ave, 6th Floor New York, NY 10012
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SILVERSTONE PROPERTY GROUP
625 Third Avenue, 37th Floor

STRUCTURAL ENGINEER:
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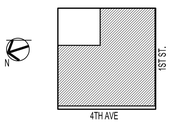
KEY PLAN

275 4th Ave.
BROOKLYN, N.Y. 11215

BLOCK: 964
LOTS: 1
ZONING MAP: 16C



275 4th Avenue

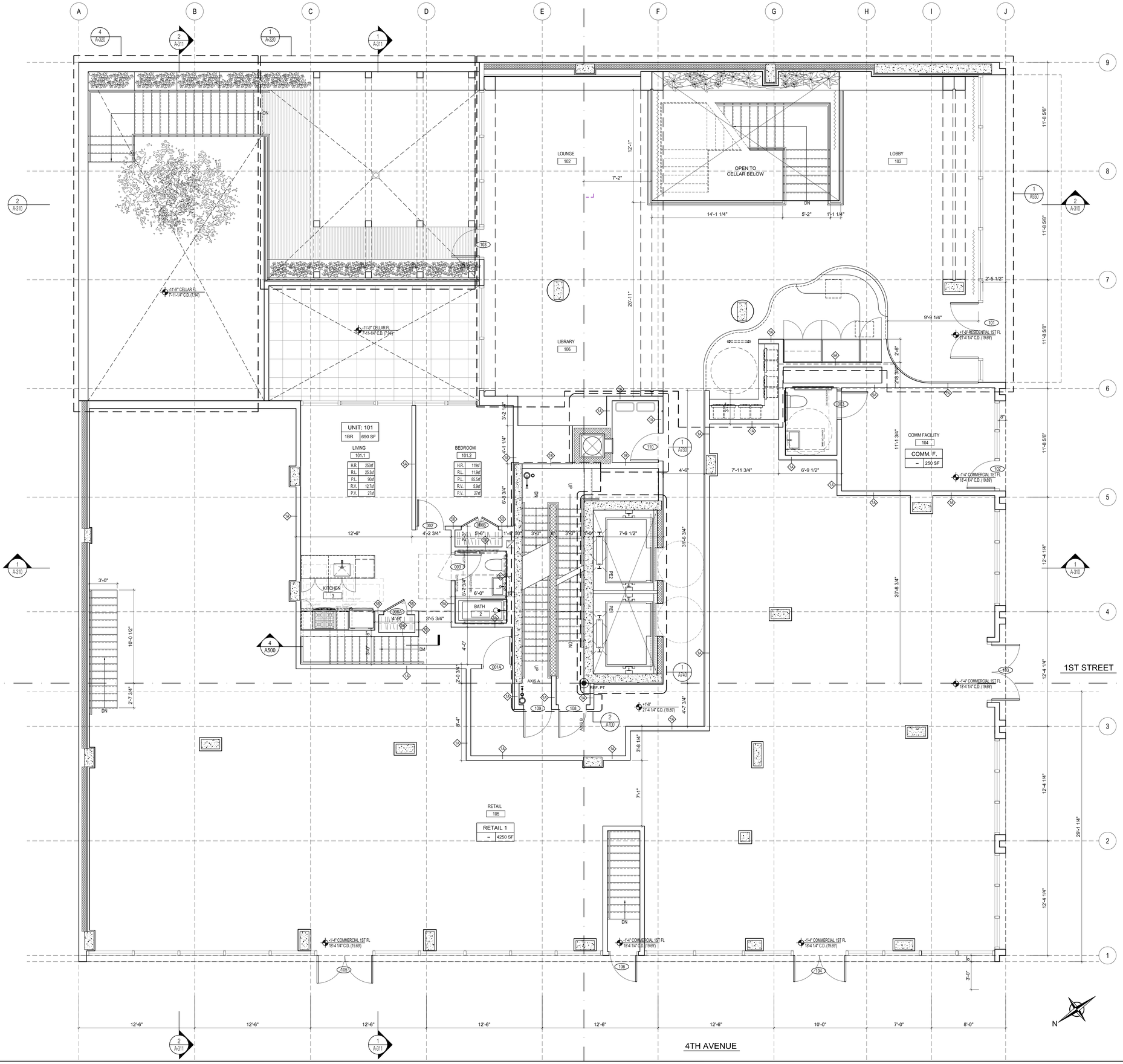
NEW CONSTRUCTION
NYC DOB NUMBERS :

PROJECT NO: 1470.00 | SCALE: 1/4"=1'-0"

CELLAR
CONST & DIM PLAN

A-100.00

PAGE:



ODA

Office for Design & Architecture

404 Broadway 3rd Fl.
New York, New York 10012
646-478-7455

NO.	DATE	
	11.22.13	ISSUE FOR DOB
	3.10.14	ISSUE FOR 85% CD

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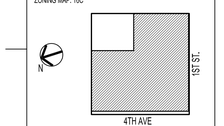
KEY PLAN

275 4th Ave.
BROOKLYN, N.Y. 11215

BLOCK: 964
LOTS: 1
ZONING MAP: 16C



275 4th Avenue

NEW CONSTRUCTION
NYC DOB NUMBERS :

PROJECT NO: 1470.00 | SCALE: 1/4"=1'-0"

1ST
CONST & DIM PLAN

A-101.00

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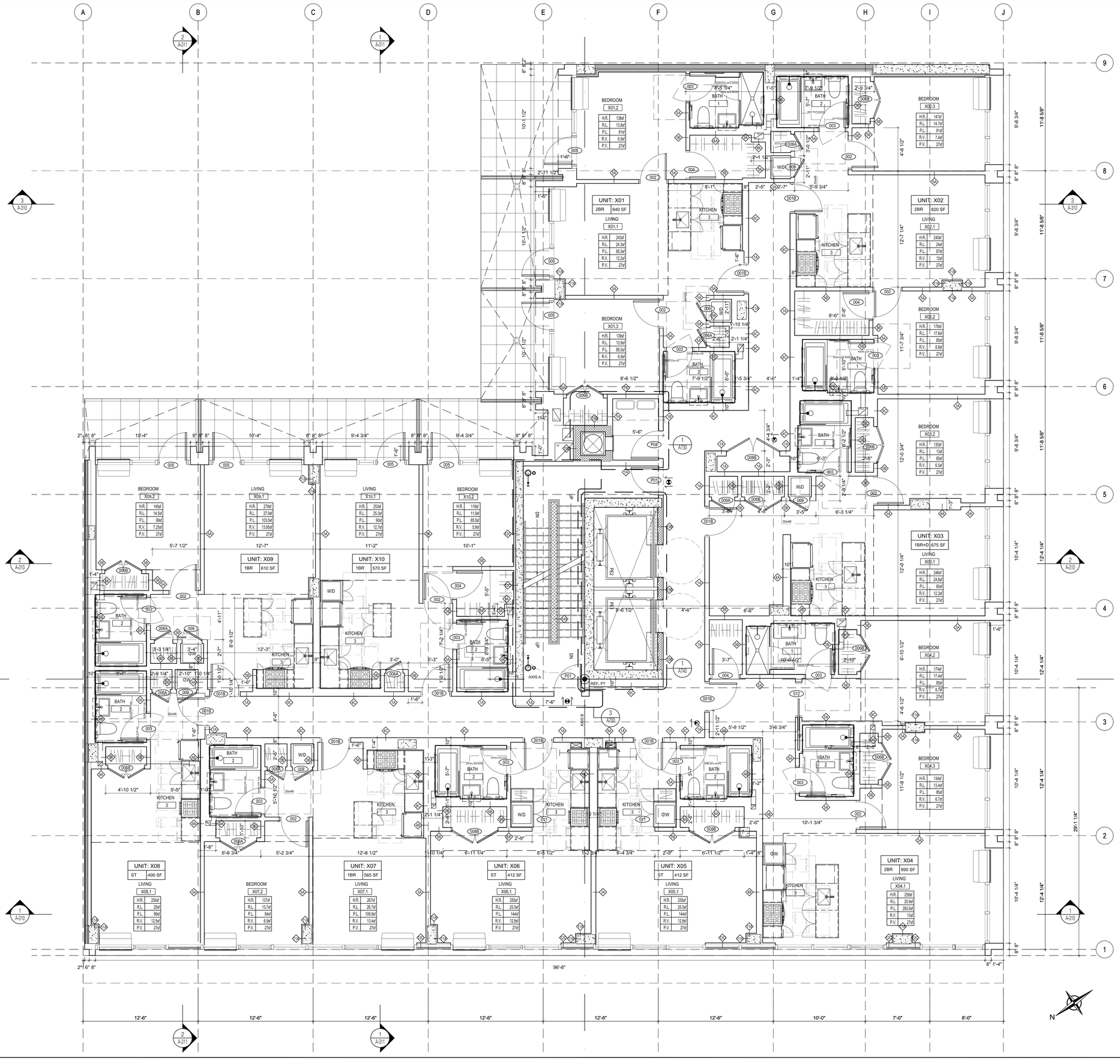

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New York, NY 10018 T. 212.244.2410

DOB CONSULTANT:
Joey Goldzal
299 Broadway, Suite 820
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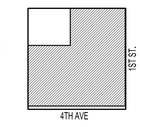
T.212.914.4464

KEY PLAN

275 4th Ave.
BROOKLYN, N.Y. 11215

BLOCK: 964
LOTS: 1
ZONING MAP: 16C



275 4th Avenue

NEW CONSTRUCTION
NYC DOB NUMBERS :

REGISTERED ARCHITECT
FRAN CHEN
029207
STATE OF NEW YORK

PROJECT NO: 1470.00

SCALE: 1/4"=1'-0"

2ND + 3RD
CONST & DIM PLAN

A-102.00

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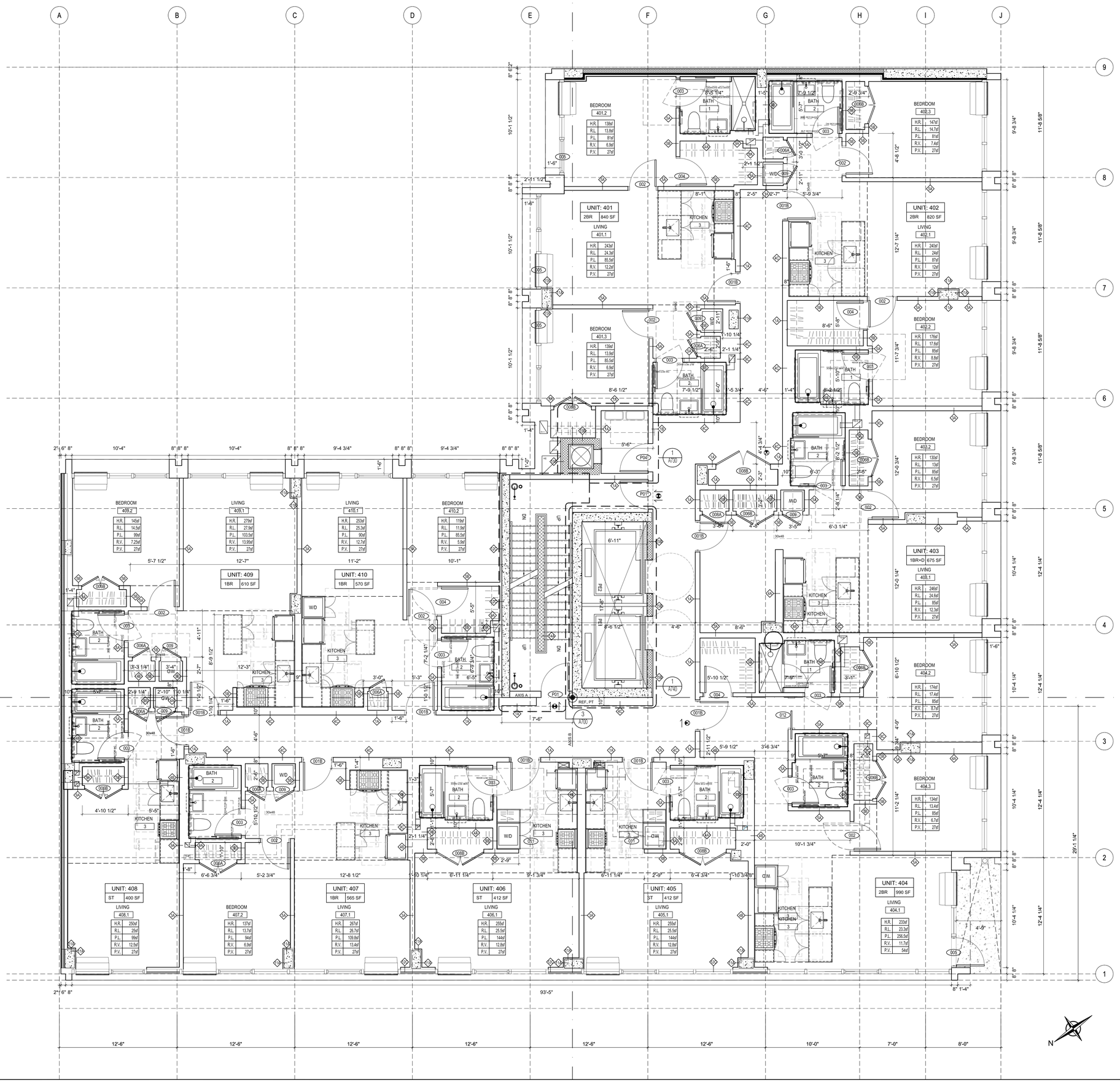

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DOB CONSULTANT:
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299 Broadway, Suite 820
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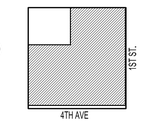
T.212.914.4464

KEY PLAN

275 4th Ave,
BROOKLYN, N.Y., 11215

BLOCK: 964
LOTS: 1
ZONING MAP: 16C



275 4th Avenue

NEW CONSTRUCTION
NYC DOB NUMBERS :

PROJECT NO: 1470.00

SCALE: 1/4"=1'-0"

4TH
CONST & DIM PLAN

A-103.00

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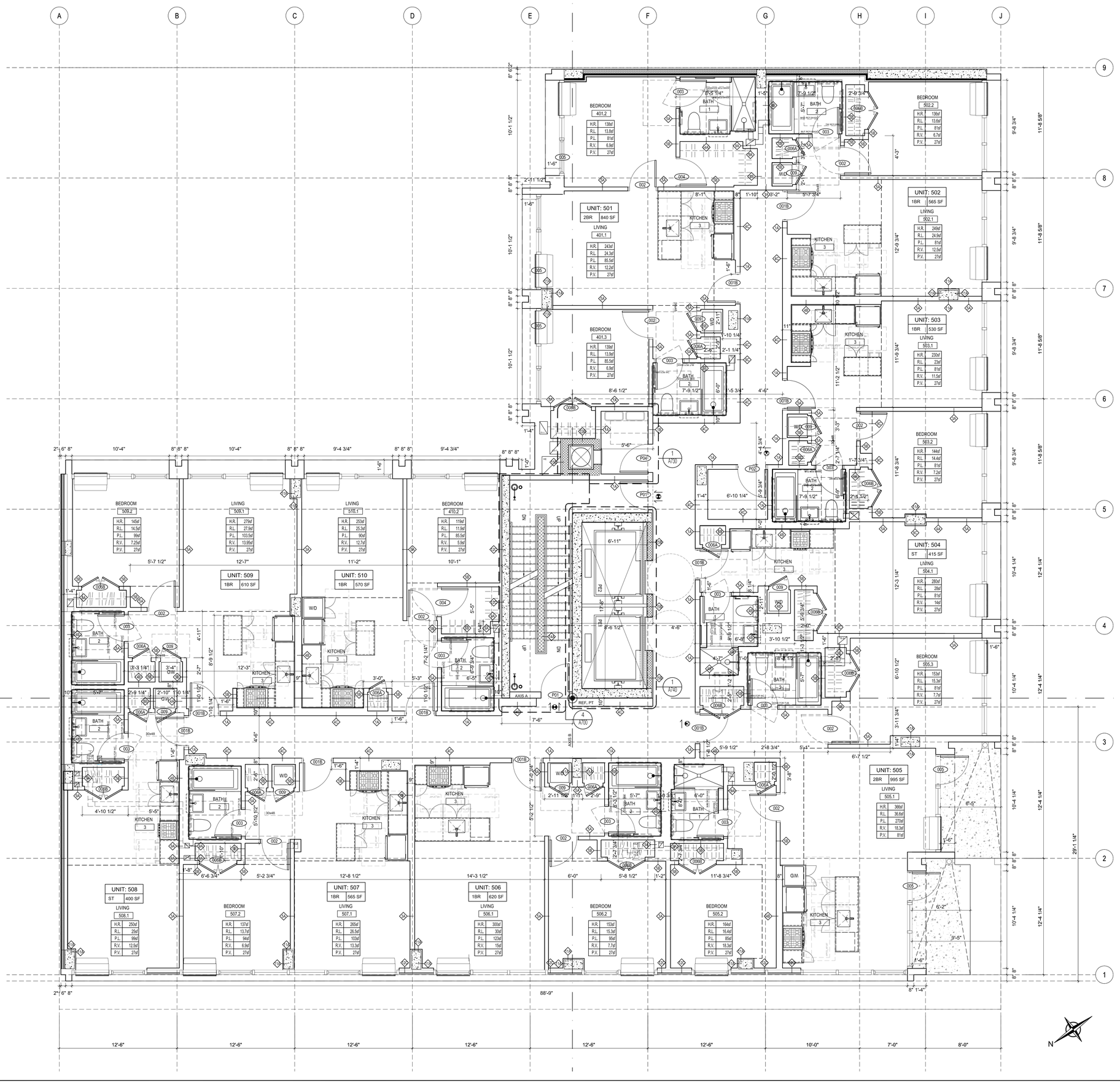

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KEY PLAN

275 4th Ave.
BROOKLYN, N.Y. 11215

BLOCK: 964
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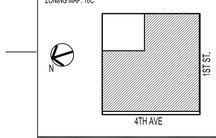

275 4th Avenue

NEW CONSTRUCTION
NYC DOB NUMBERS :

REGISTERED ARCHITECT
GRAN CHEN
029267
STATE OF NEW YORK

PROJECT NO: 1470.00 | SCALE: 1/4"=1'-0"

5TH
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A-104.00

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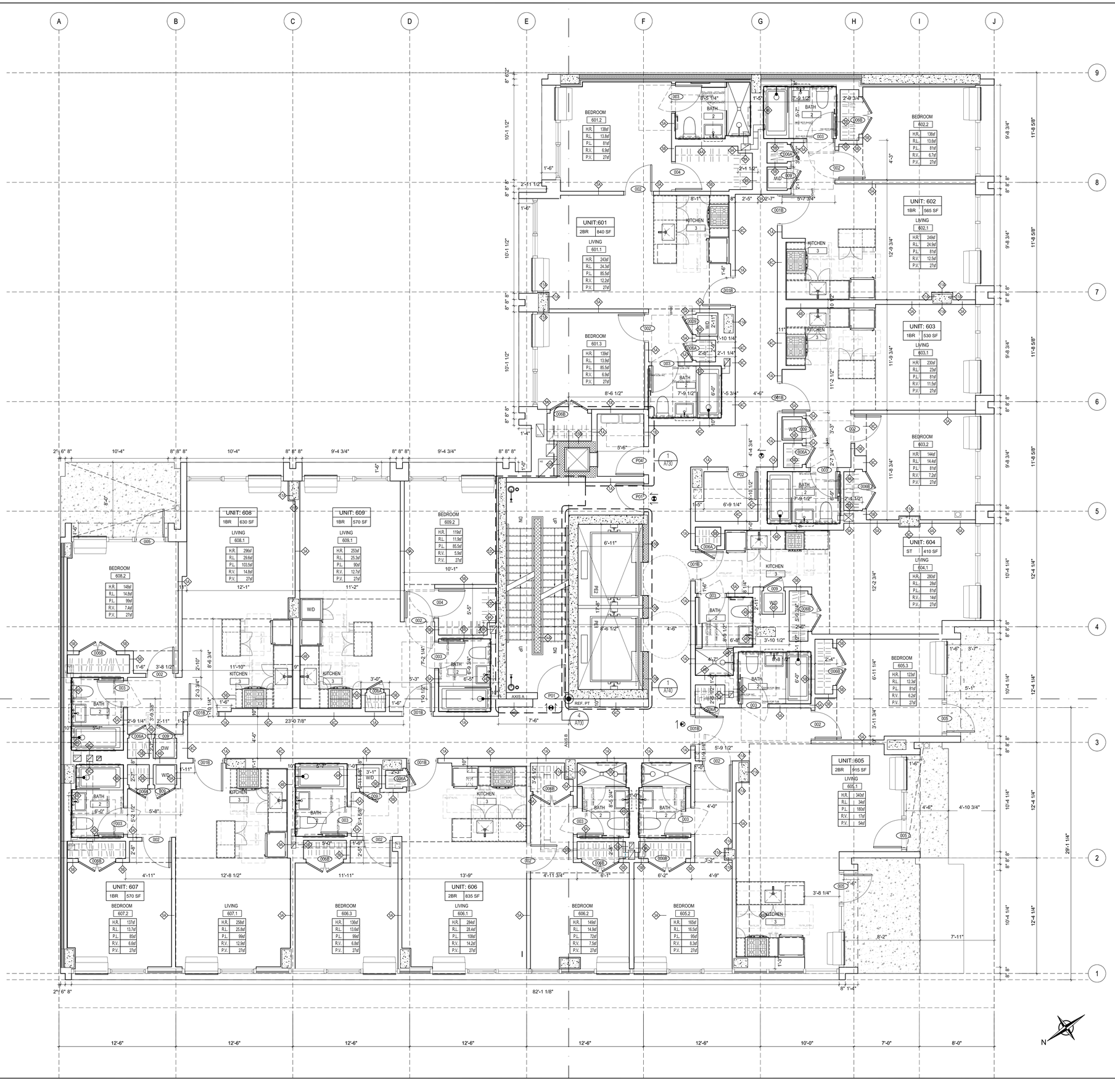

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KEY PLAN

275 4th Ave.
BROOKLYN, N.Y. 11215

BLOCK: 964
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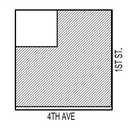

275 4th Avenue

NEW CONSTRUCTION
NYC DOB NUMBERS :

REGISTERED ARCHITECT
ERAN CHEN
029207
STATE OF NEW YORK

PROJECT NO: 1470.00 | SCALE: 1/4"=1'-0"

6TH
CONST & DIM PLAN

A-105.00

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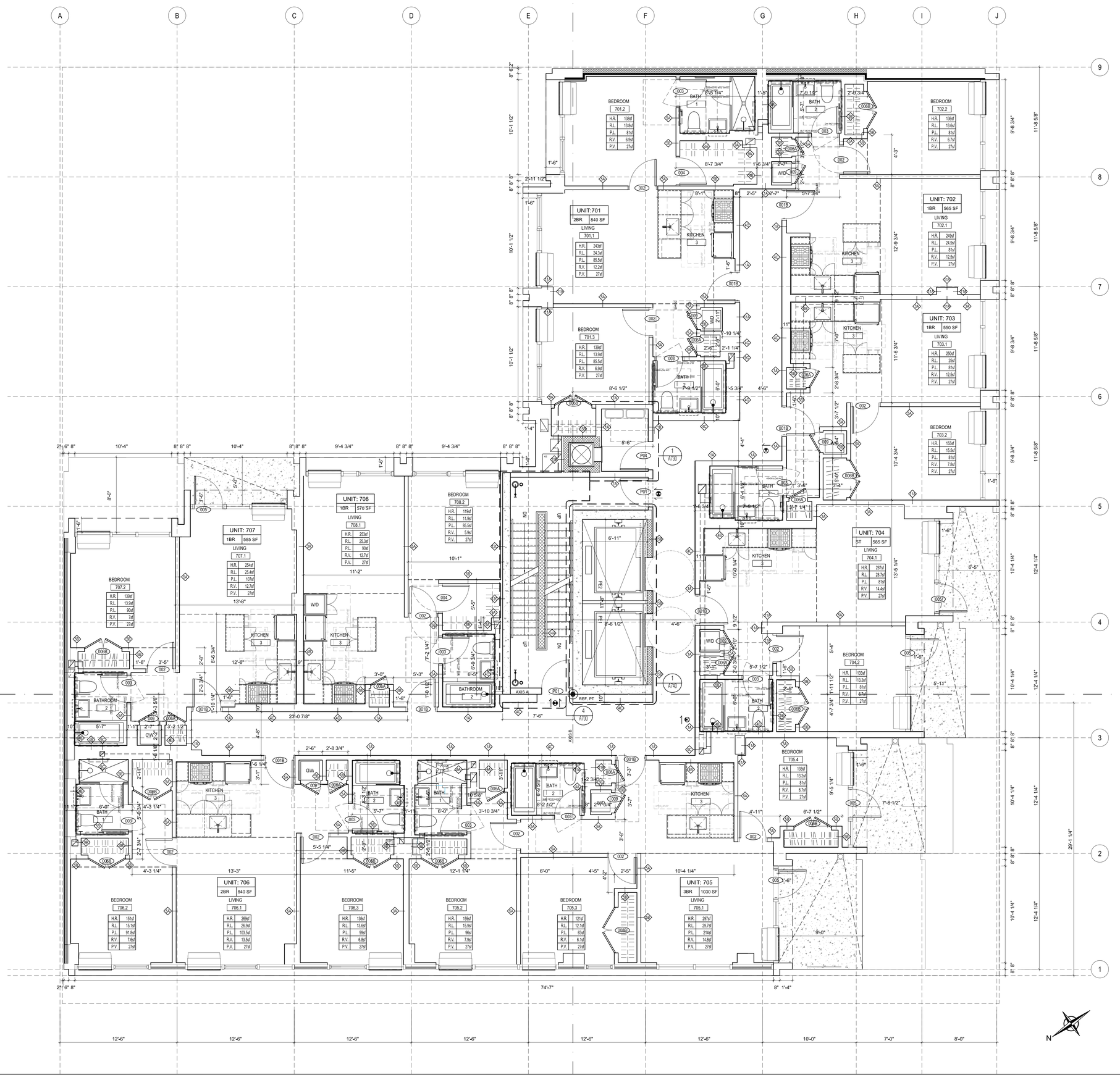

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KEY PLAN

275 4th Ave.
BROOKLYN, N.Y. 11215

BLOCK: 964
LOTS: 1
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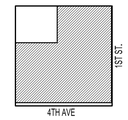

275 4th Avenue

NEW CONSTRUCTION
NYC DOB NUMBERS :

REGISTERED ARCHITECT
ERAN CHEN
029201
STATE OF NEW YORK

PROJECT NO: 1470.00 | SCALE: 1/4"=1'-0"

7TH
CONST & DIM PLAN

A-106.00

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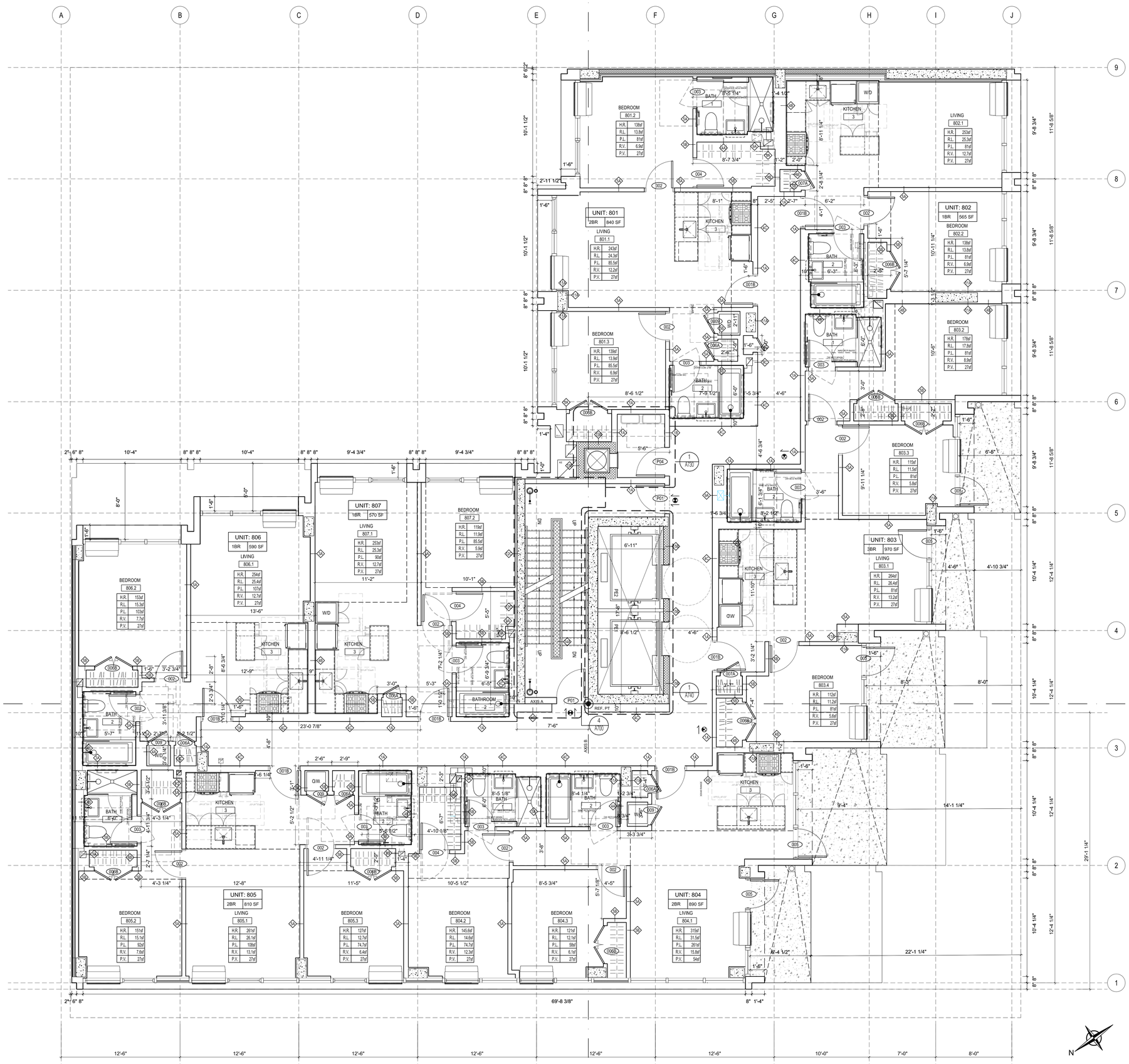

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KEY PLAN

275 4th Ave,
BROOKLYN, N.Y. 11215

BLOCK: 964
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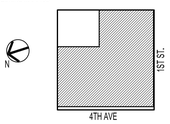
ZONING MAP: 16C



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NEW CONSTRUCTION
NYC DOB NUMBERS :

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8TH
CONST & DIM PLAN

A-107.00

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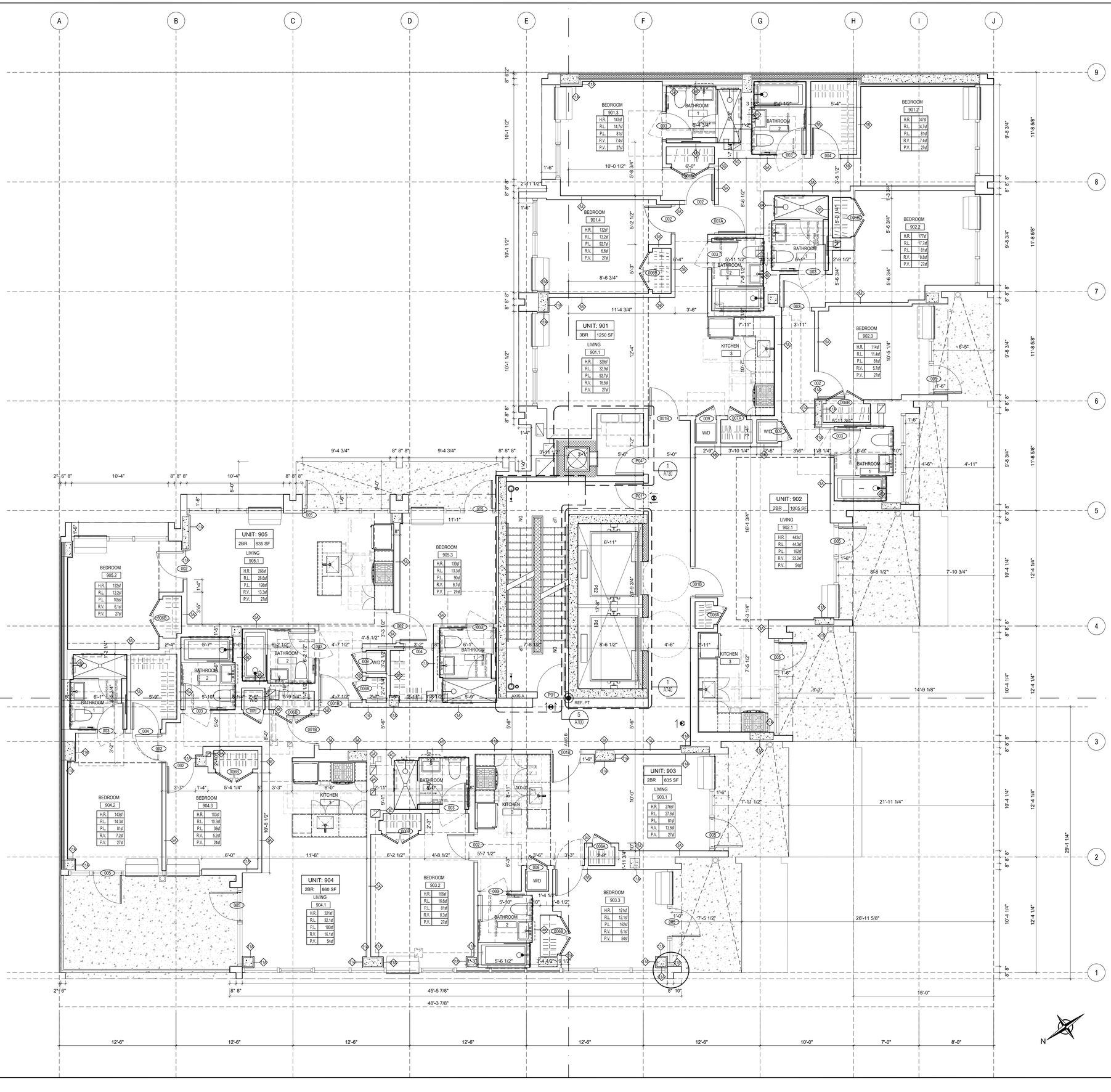

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KEY PLAN

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BROOKLYN, N.Y. 11215

BLOCK: 964
LOTS: 1
ZONING MAP: 16C

275 4th Avenue

NEW CONSTRUCTION
NYC DOB NUMBERS :

REGISTERED ARCHITECT
SHAN CHEN
CHEN
STATE OF NEW YORK

PROJECT NO: 1470.00 | SCALE: 1/4"=1'-0"

9TH
CONST & DIM PLAN

A-108.00

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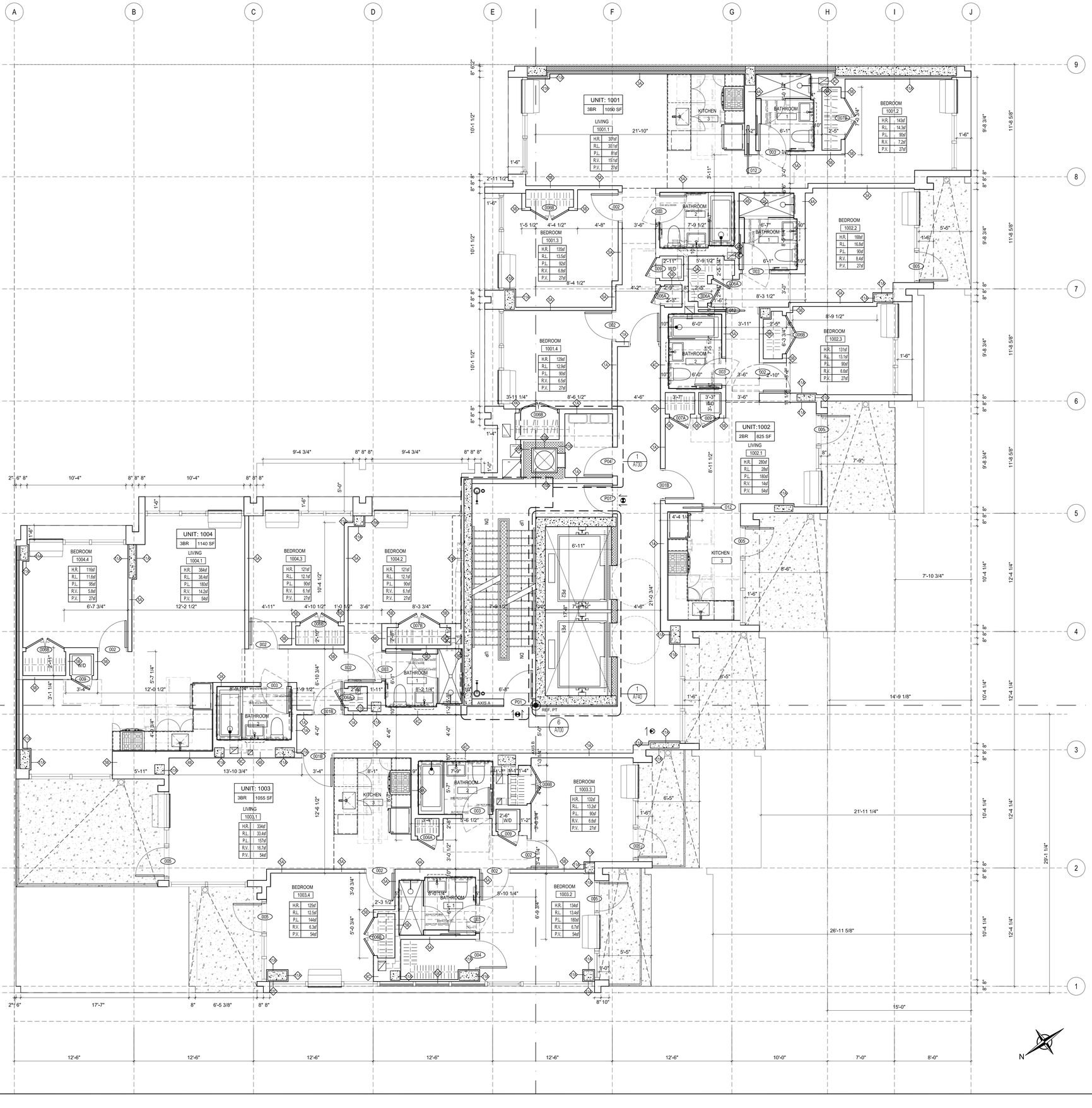

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KEY PLAN

275 4th Ave.
BROOKLYN, N.Y. 11215

BLOCK: 964
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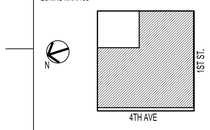

275 4th Avenue

NEW CONSTRUCTION
NYC DOB NUMBERS :

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10TH
CONST & DIM PLAN

A-109.00

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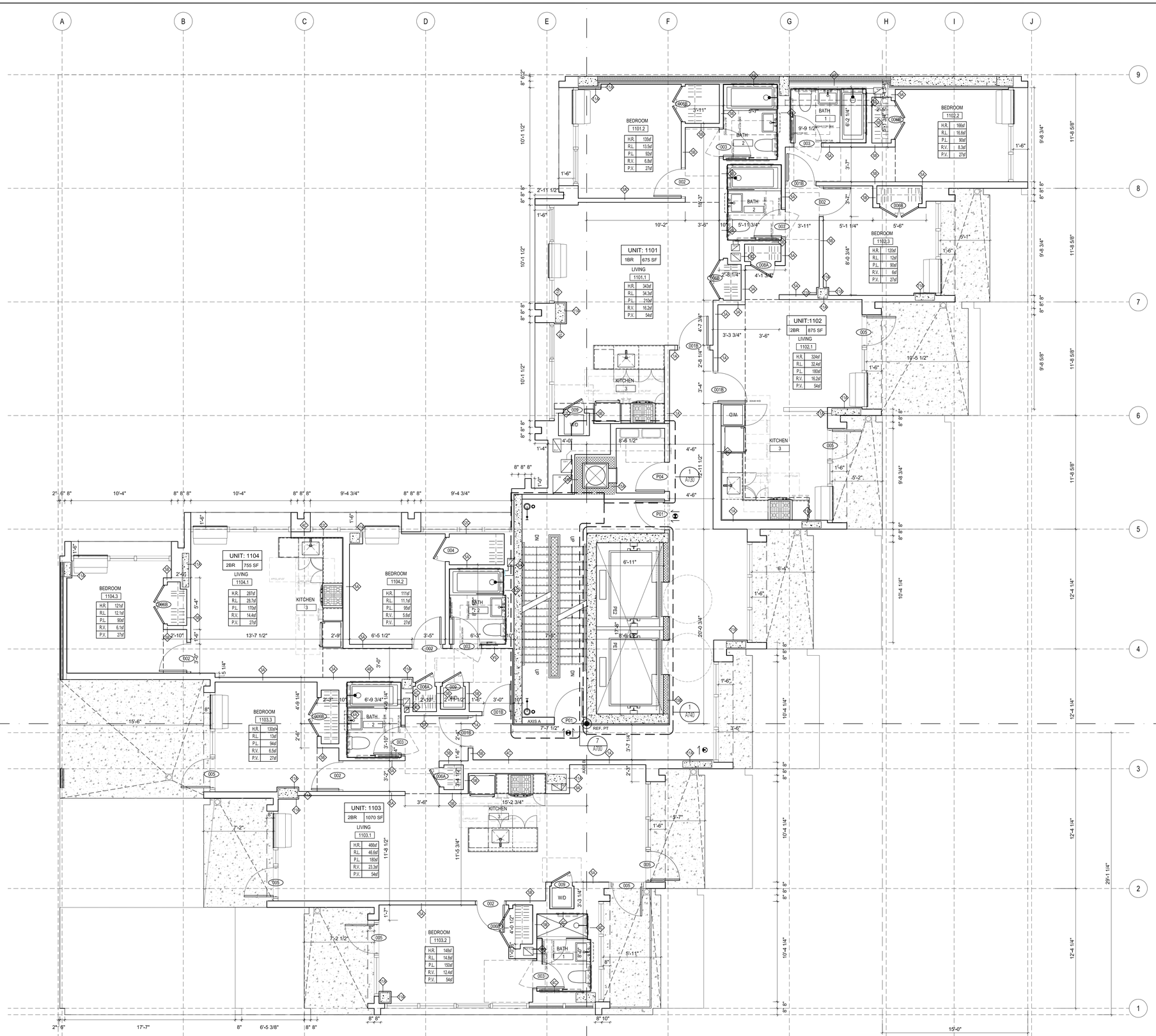

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KEY PLAN

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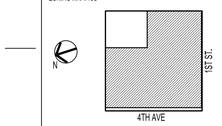
BROOKLYN, N.Y. 11215

BLOCK: 964
LOTS: 1
ZONING MAP: 16C



275 4th Avenue

NEW CONSTRUCTION
NYC DOB NUMBERS :

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11TH
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A-110.00

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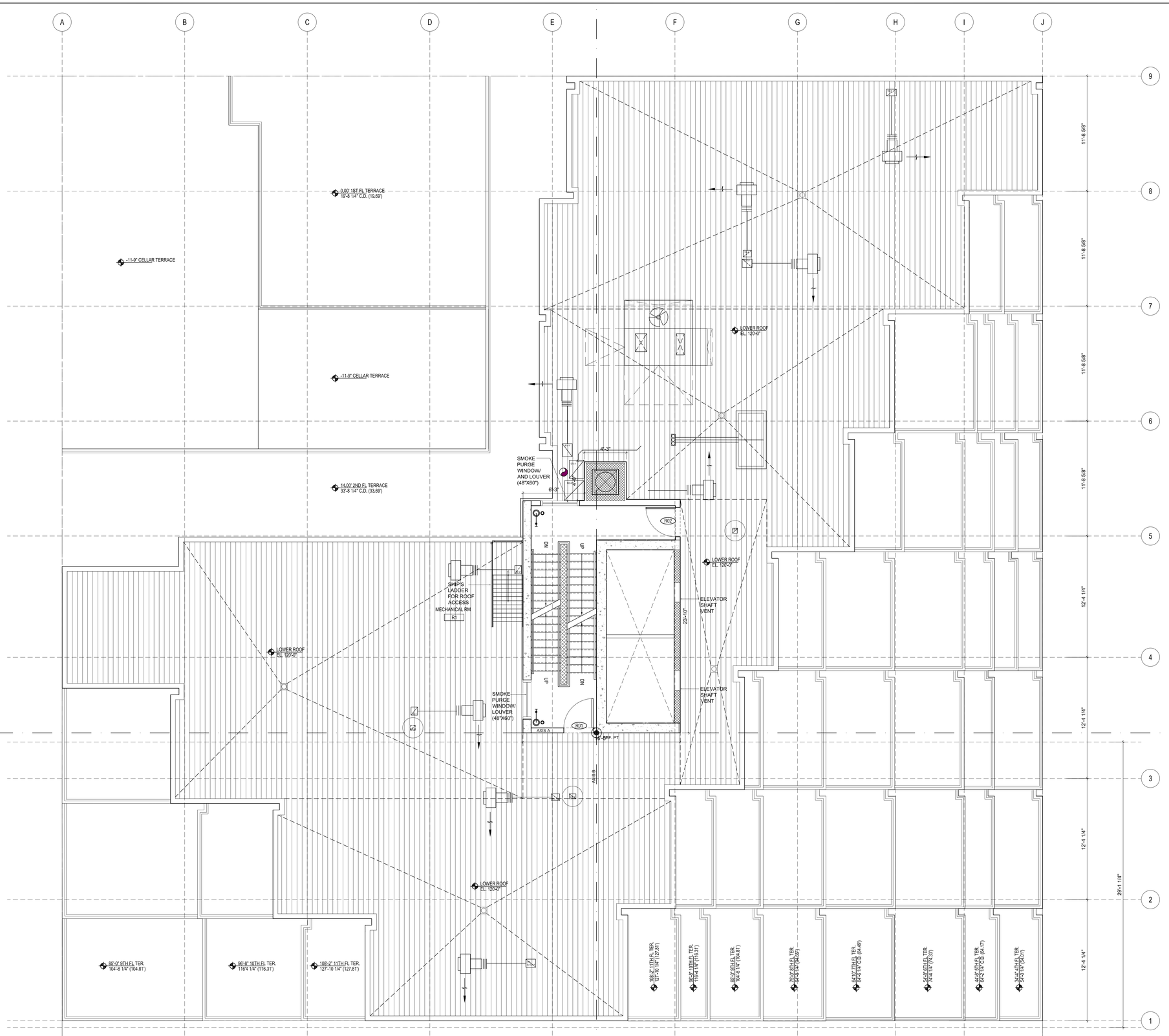

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KEY PLAN

275 4th Ave,
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BLOCK: 964
LOTS: 1
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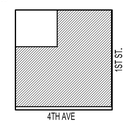

275 4th Avenue

NEW CONSTRUCTION
NYC DOB NUMBERS :

PROJECT NO: 1470.00 | SCALE: 1/4"=1'-0"

ROOF
CONST & DIM PLAN

A-111.00

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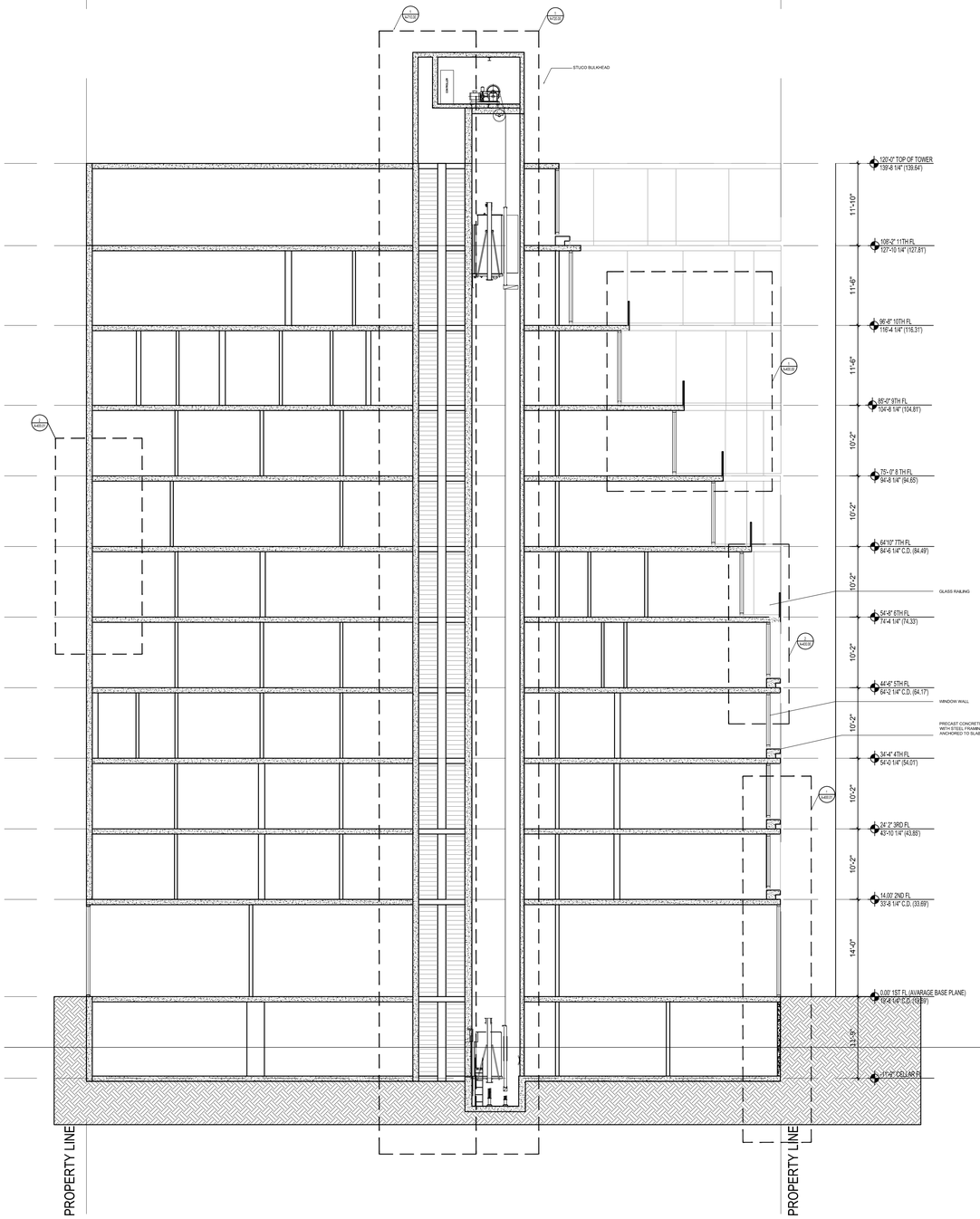

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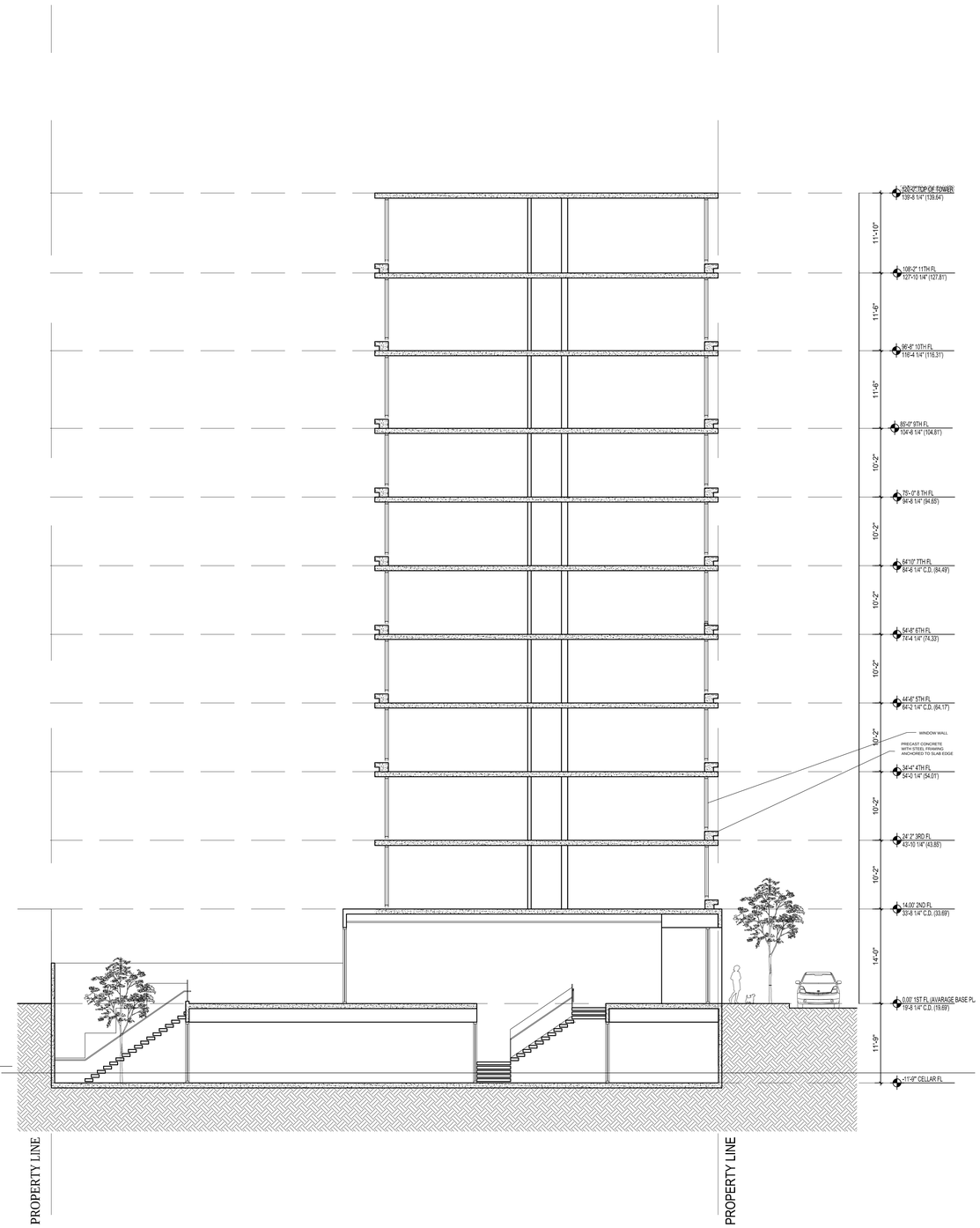

2 SECTION 2
SCALE: 1/8"=1'-0"

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KEY PLAN

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BLOCK: 964
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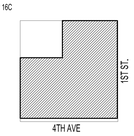

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PROJECT NO: 1470.00 | SCALE: 1/8" = 1'-0"

SECTIONS

A-310.00

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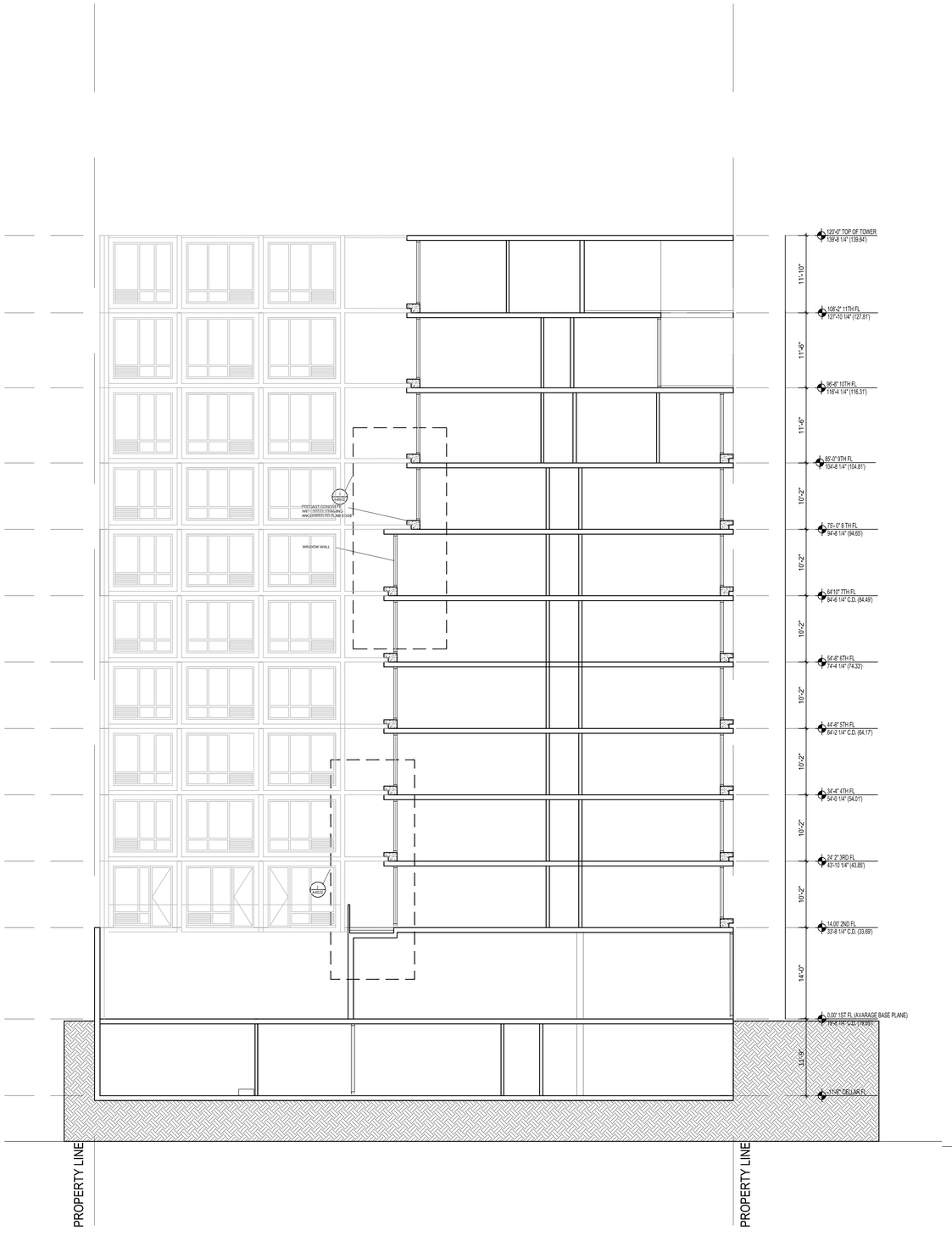

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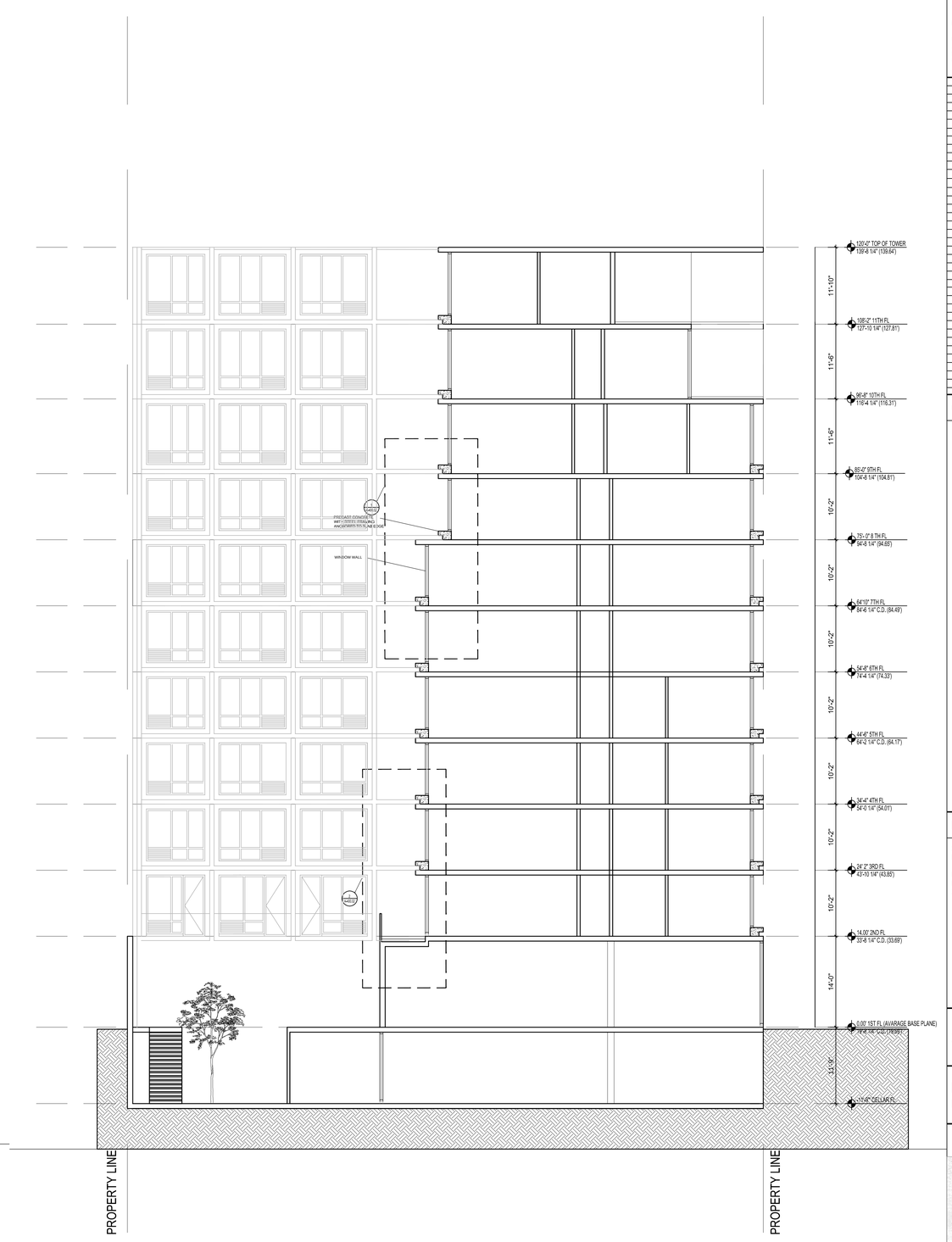

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SCALE: 1/8"=1'-0"

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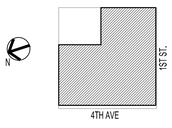

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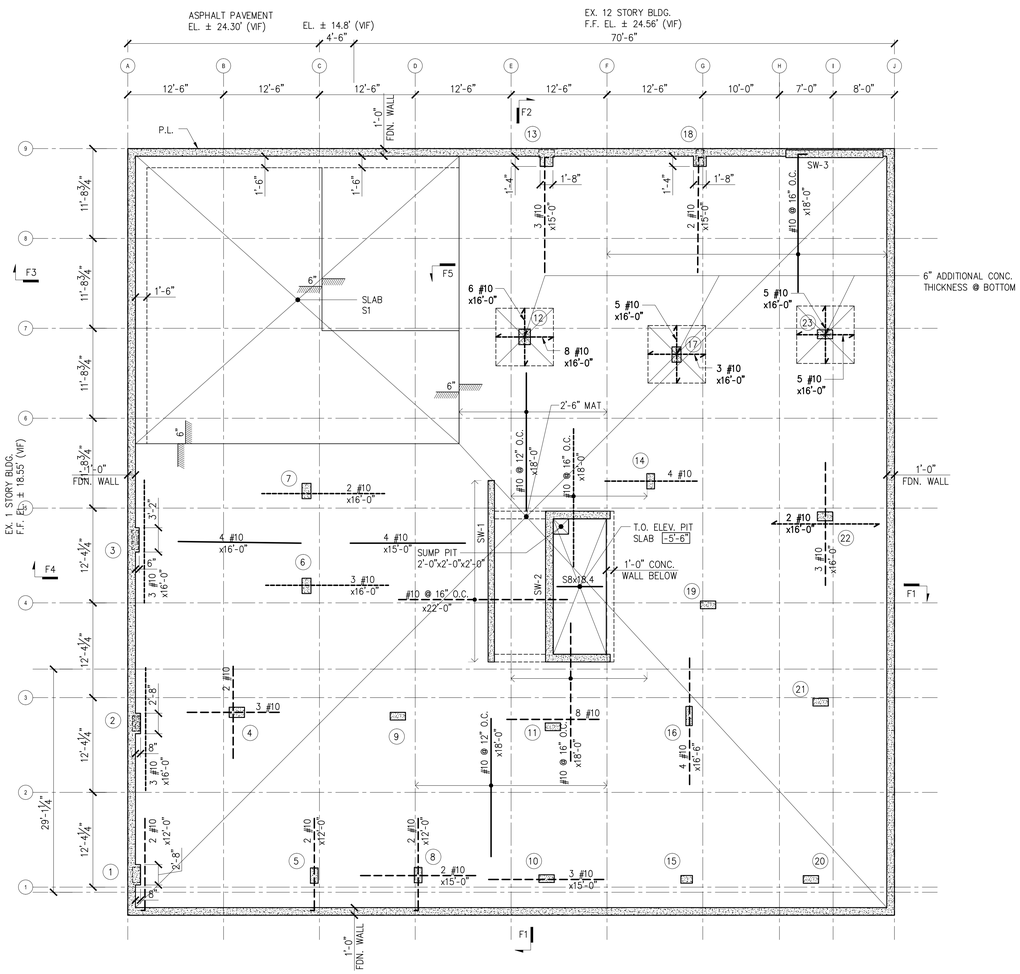
SECTIONS

A-310.01

PAGE:



FOUNDATION/CELLAR FRAMING PLAN

SCALE: ⅛" = 1'-0"

NOTES

1. FOR TOP OF MAT & SLAB ELEV. SEE COLUMN SCHEDULE U.O.N. ± .... INDICATING DISTANCE ABOVE OR BELOW REFERENCE ELEVATION.
2. MAT & FOOTING MUST BE BEAR ON SOIL WITH MINIMUM BEARING CAPACITY OF 4 TONS PER SQUARE FOOT. IN THE EVENT THAT 4 TON SOIL IS NOT REACHED AT ANTICIPATED ELEVATION SHOWN ON PLANS, FOOTINGS SHALL BE LOWERED TO A DEPTH AT WHICH REQUIRED BEARING CAPACITY IS FOUND.
3. MAT TO BE 2'-6" THICK CONCRETE WITH f'c = 5,000 PSI, REINFORCED WITH #9 @ 12" O.C. EACH WAY TOP & BOTTOM. SEE PLAN FOR ADDITIONAL TOP & BOTTOM BARS.
4. SLAB S1 TO BE 6" THICK NORMAL WEIGHT CONCRETE SLAB ON GRADE WITH f'c=5000 PSI REINFORCED WITH WWF 6x6 W2.0x2.0 AT 1" FROM TOP OF SLAB.
5. TOP OF FOOTING SHALL BE 1'-0" BELOW TOP OF SLAB ELEVATION U.O.N. THUS (± ....) INDICATES BOTTOM OF FOOTING ELEVATION MEASURED FROM TOP OF SLAB ELEVATION.
6. F .... INDICATES FOOTING MARK, FOR SIZE AND REINF. SEE FOOTING SCHEDULE.
7. FOR WATER PROOFING, SEE ARCH. DWGS.
8. FOUNDATION WALLS, BUTTRESS 5000 PSI. U.O.N
9. SEE THE FOLLOWING DRAWINGS FOR THE ITEMS NOTED:

GENERAL NOTES	S-100.00
COLUMN SCHEDULE	S-300.00
SHEAR WALL PLANS	S-301.00
TYPICAL DETAILS	S-400.00 SERIES
SECTIONS & DETAILS	S-500.00 SERIES

LEGEND

ADDITIONAL TOP STEEL

ADDITIONAL BOTTOM STEEL

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	3.18.14	ISSUE FOR 85% CD

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T., (917.440.5184)

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625 Third Avenue, 37th Floor

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MEP ENGINEER:
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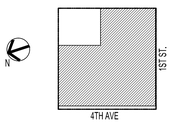
New York, NY 10018 T. 212.244.2410

DOB CONSULTANT:
Joey Gotcsall
299 Broadway, Suite 820
New York, NY 10007
T.212.914.4464

KEY PLAN

275 4th Ave.
BROOKLYN, N.Y. 11215

BLOCK: 964
LOTS: 1
ZONING MAP: 16C



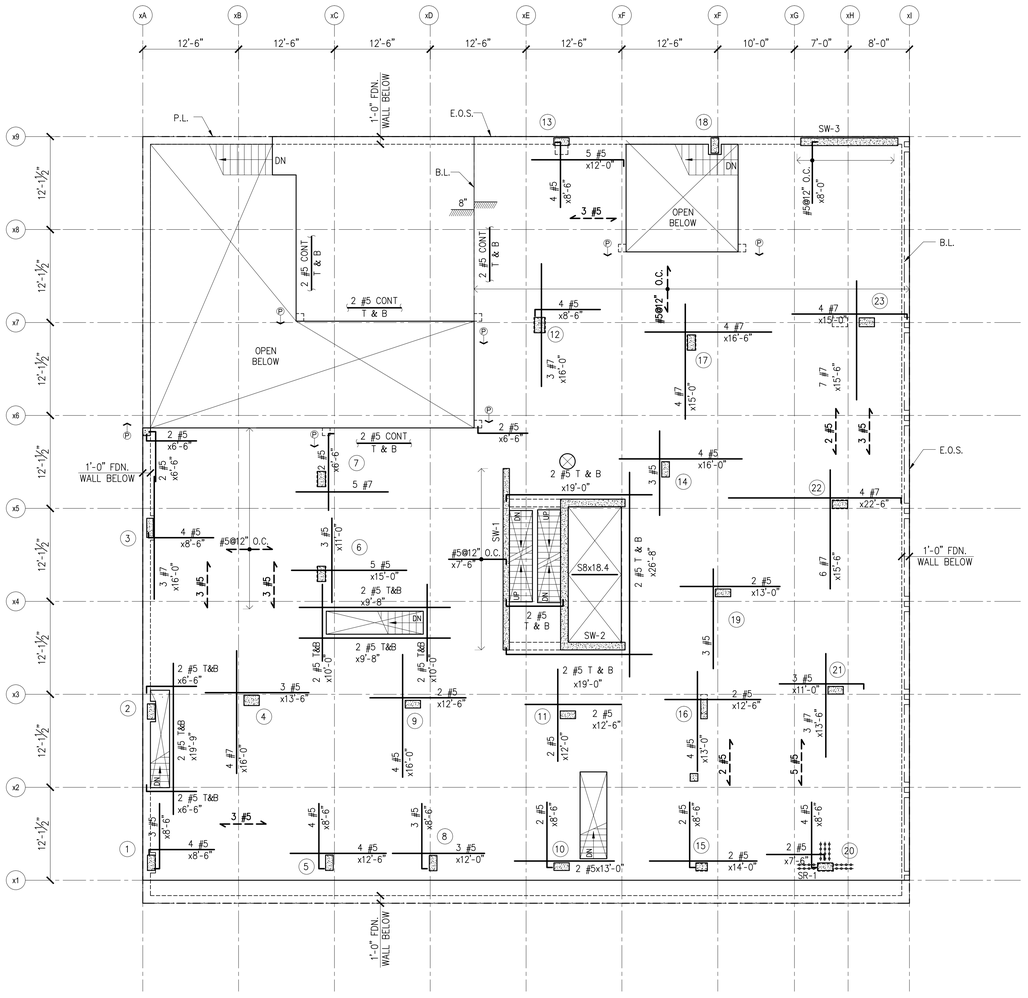
275 4th Avenue

NEW CONSTRUCTION
NYC DOB NUMBERS :

PROJECT NO: 13043 | SCALE: AS NOTED

FOUNDATION / CELLAR FRAMING PLAN

FO-100.00



FIRST FLOOR FRAMING PLAN

SCALE: ⅜" = 1'-0"

NOTES:

1. SEE COLUMN SCHEDULE FOR TOP OF SLAB ELEVATION, U.O.N. THUS ±..... INDICATES DISTANCE WITH RESPECT TO EL. INDICATED.
2. TYPICAL SLAB SHALL BE 9" THICK WITH f'c=5,000 PSI REINFORCED WITH #4@12" O.C. TOP AND BOTTOM EACH WAY CONTINUOUS. SEE PLAN FOR ADDITIONAL REINFORCEMENT.
3. SEE THE FOLLOWING DRAWINGS FOR THE ITEMS NOTED:

GENERAL NOTES	S-100.00
COLUMN SCHEDULE	S-300.00
SHEAR WALL PLANS	S-301.00
TYPICAL DETAILS	S-400.00 SERIES
SECTIONS & DETAILS	S-500.00 SERIES

LEGEND

- ADDITIONAL TOP STEEL
- ADDITIONAL CONTINUOUS BOTTOM STEEL
- INDICATES COLUMN BELOW
- INDICATES COLUMN ABOVE
- INDICATES POST ABOVE REINFORCED WITH 4#6 VERTICAL AND #4@12" STIRRUP
- INDICATES POST BELOW

STUD RAIL SCHEDULE

STUD RAIL MARK	STUD DIAMETER (IN)	STUD SPACING (IN)	TOTAL # OF STUD/ RAIL	DISTANCE TO FIRST STUD (IN)	OVERALL HEIGHT (IN)	TOTAL RAIL LENGTH (IN)
SR-1	½	3¾	10	3¾	7	40

NOTE: SEE MANUFACTURER (DECON OR APPROVED EQUAL) FOR INSTALLATION INSTRUCTION. SEE TYPICAL DETAIL.

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DOB CONSULTANT:
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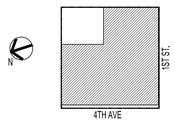
T.212.914.4464

KEY PLAN

275 4th Ave.
BROOKLYN, N.Y. 11215

BLOCK: 964
LOTS: 1
ZONING MAP: 16C



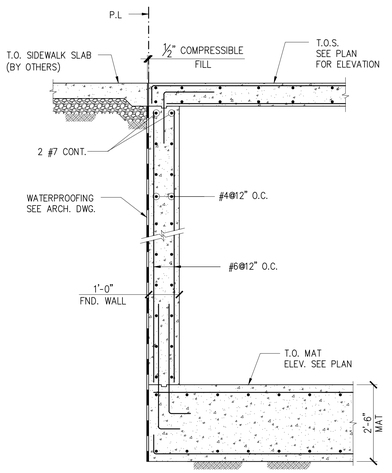
275 4th Avenue

NEW CONSTRUCTION
NYC DOB NUMBERS :

PROJECT NO: 13043 | SCALE: AS NOTED

FIRST FLOOR FRAMING PLAN

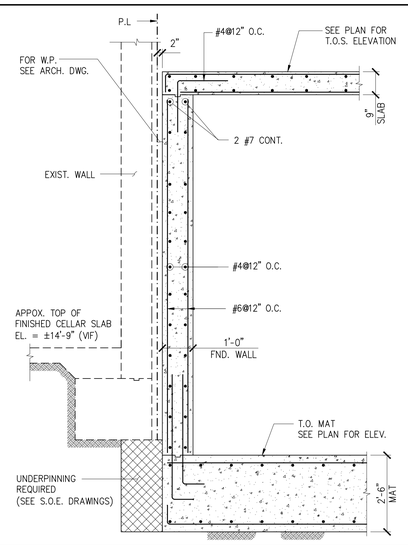
FO-101.00



SECTION

1/2" = 1'-0"

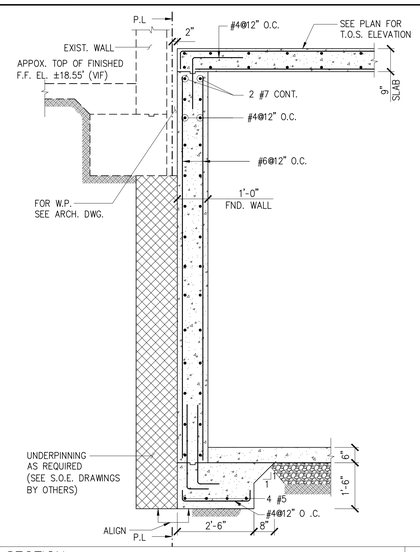
F1



SECTION

1/2" = 1'-0"

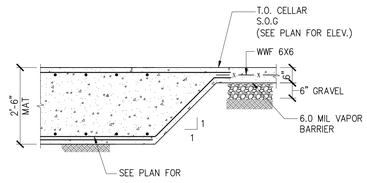
F2



SECTION

1/2" = 1'-0"

F3



SECTION

1/2" = 1'-0"

F5

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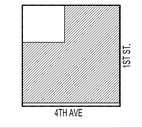
KEY PLAN

275 4th Ave.
BROOKLYN, N.Y. 11215

BLOCK: 964
LOTS: 1
ZONING MAP: 16C



275 4th Avenue

NEW CONSTRUCTION
NYC DOB NUMBERS :

PROJECT NO: 13043 | **SCALE:** AS NOTED

FOUNDATION SECTIONS

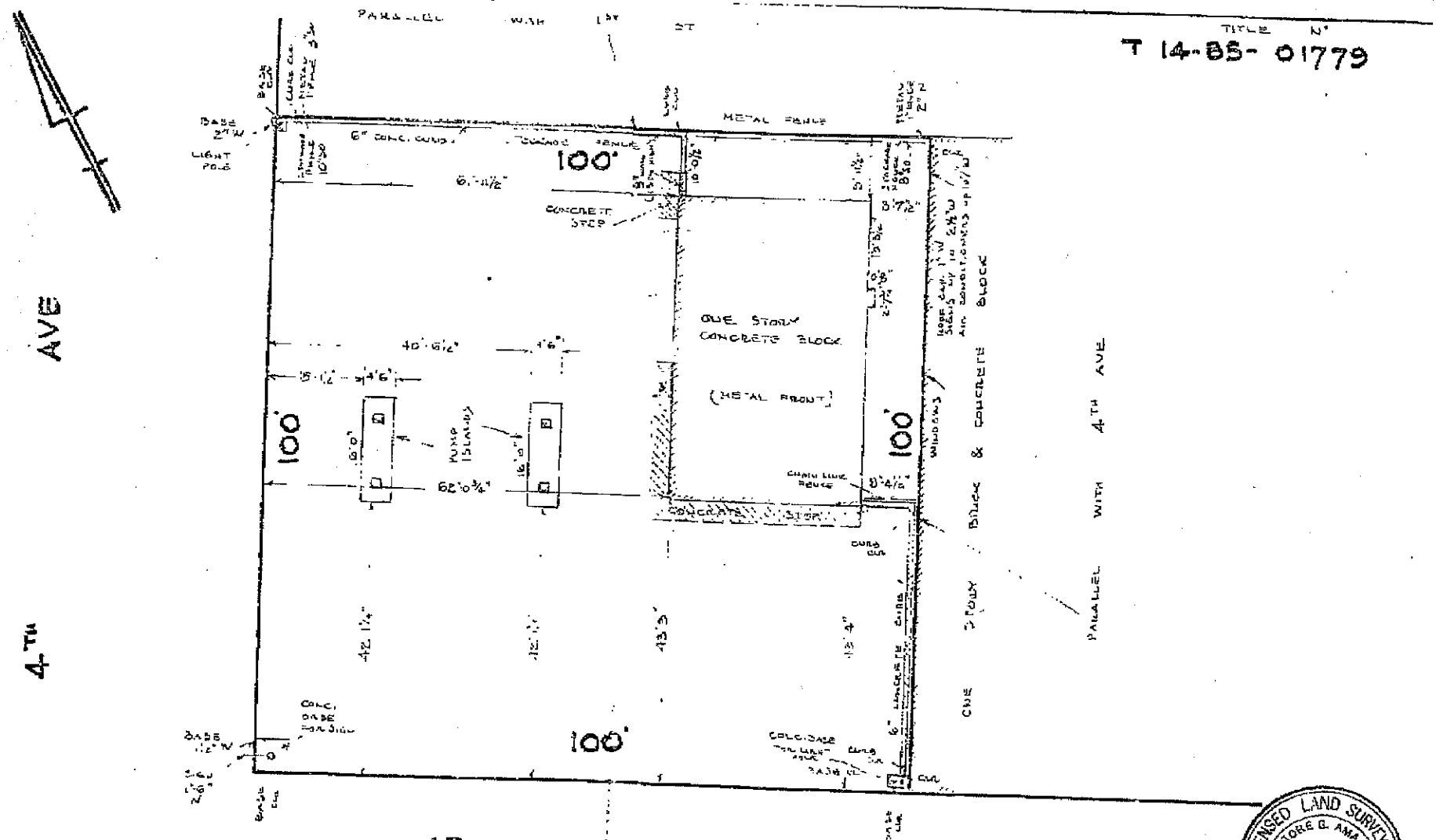
FO-500.00

APPENDIX – B

Previous Environmental Reports

TITLE NO.

T 14-85- 01779



SURVEY TO
ICOR TITLE GUARANTEE COMPANY

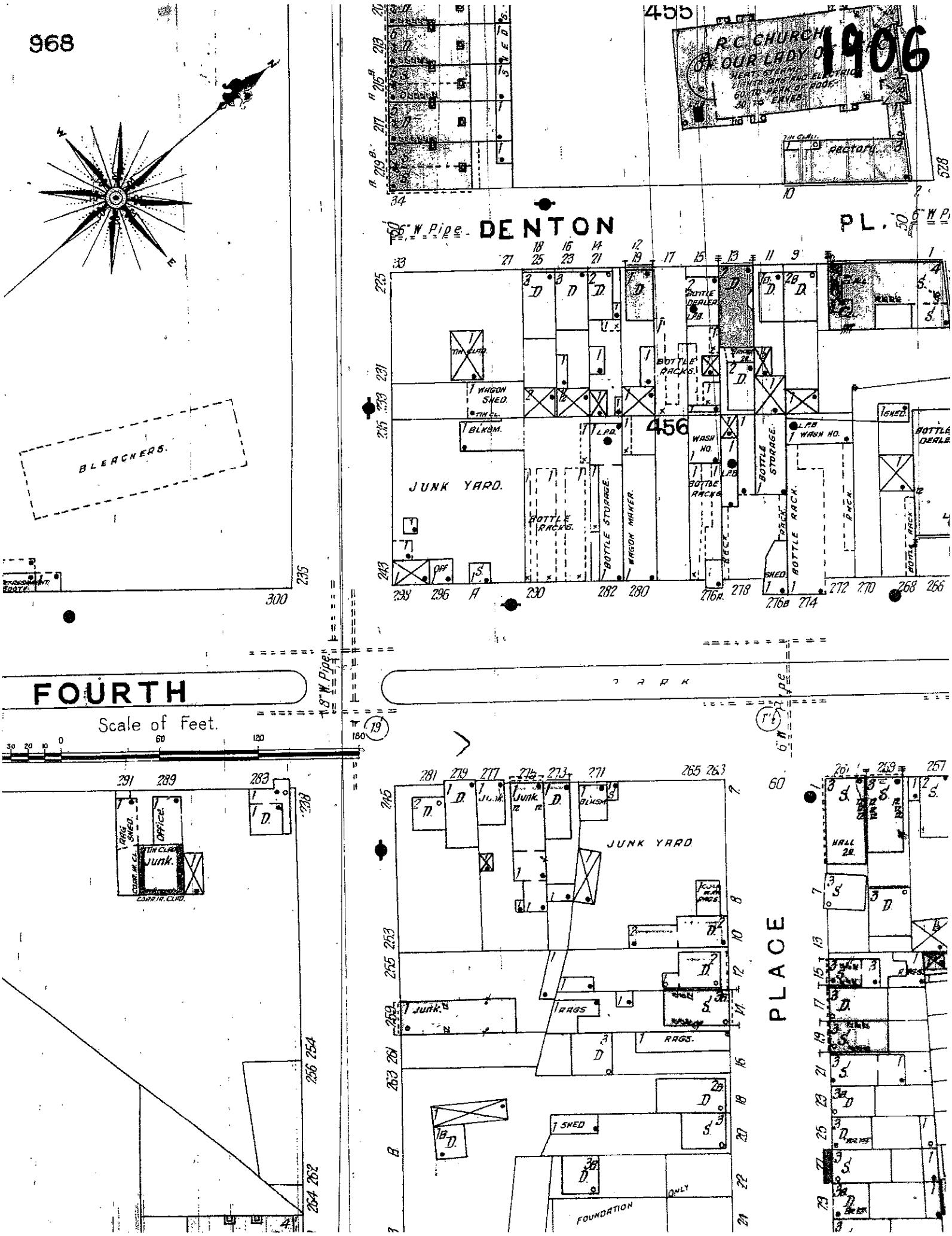
UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW

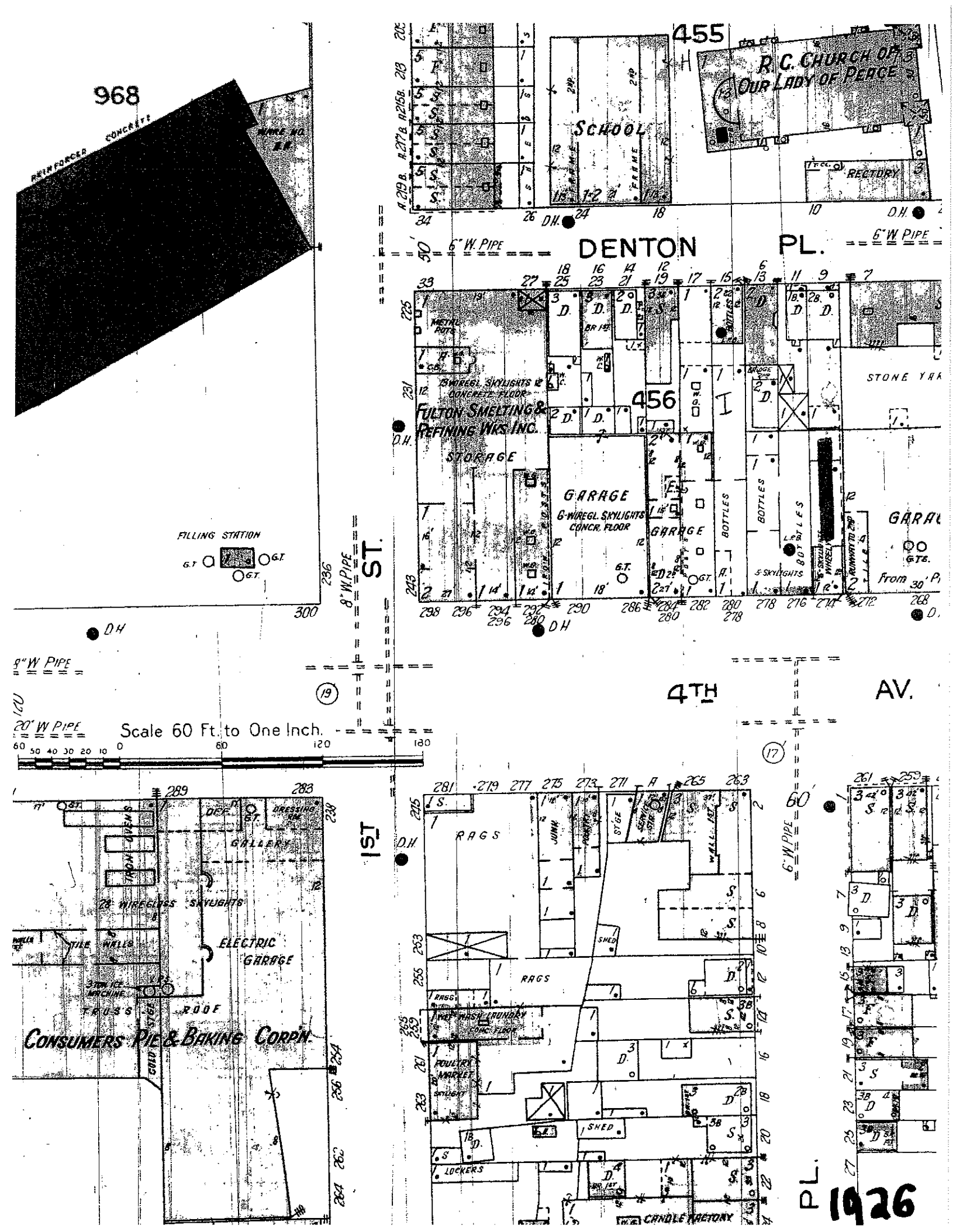
ORDER NO. 85777-A

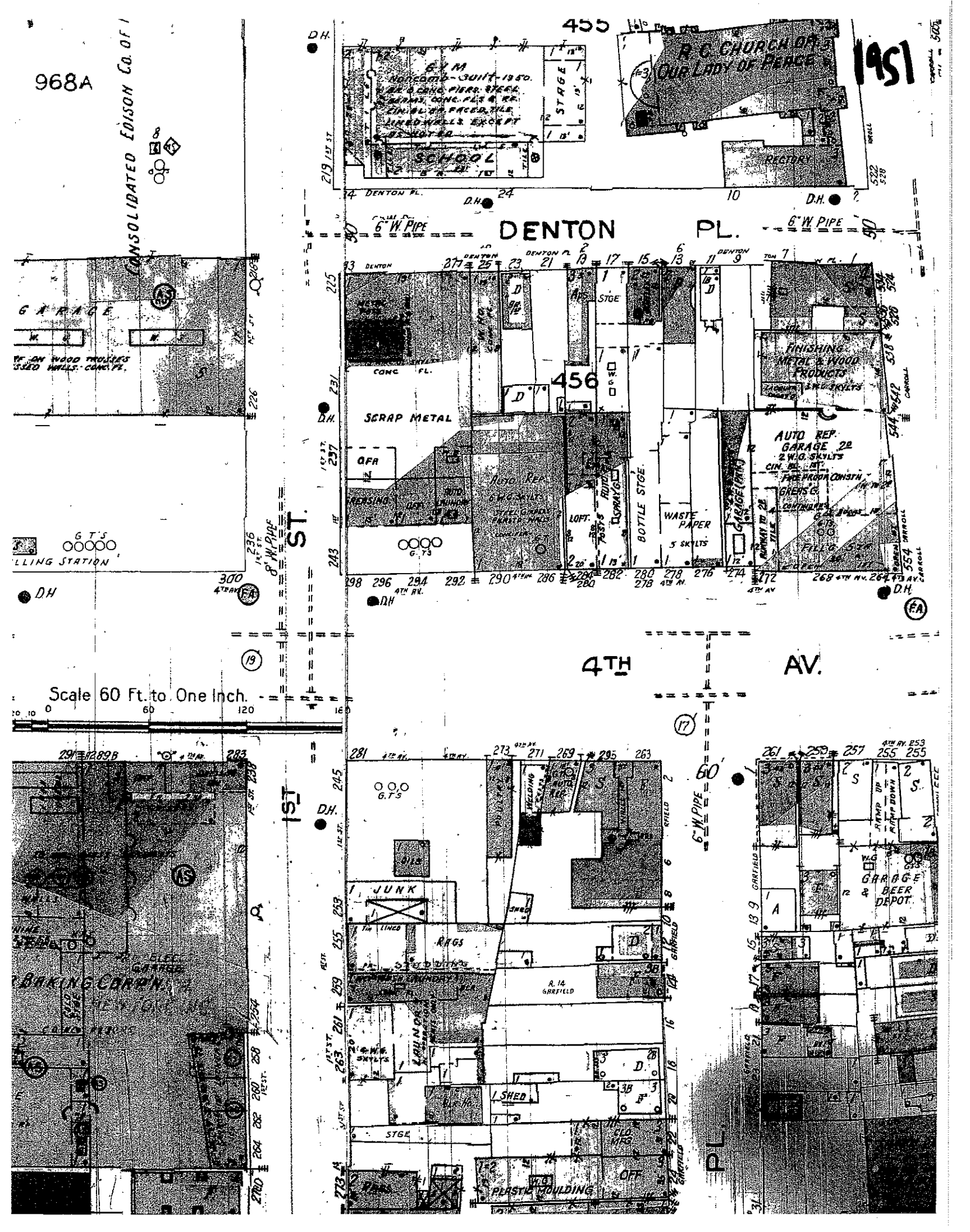
BLOCK 2814

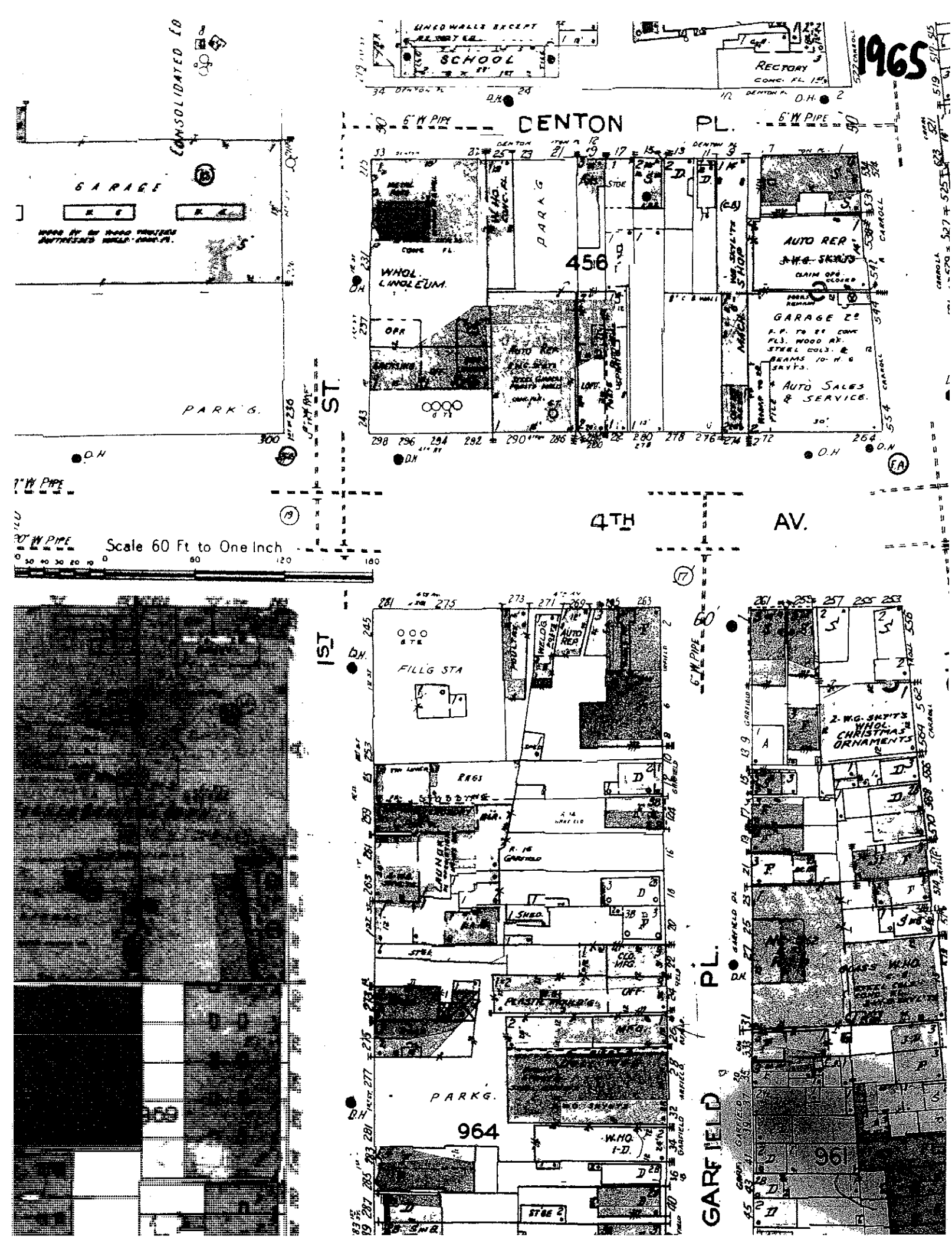
LICENSED LAND SURVEYOR
SALVATORE G. AMALFITI
No. 50103
STATE OF NEW YORK

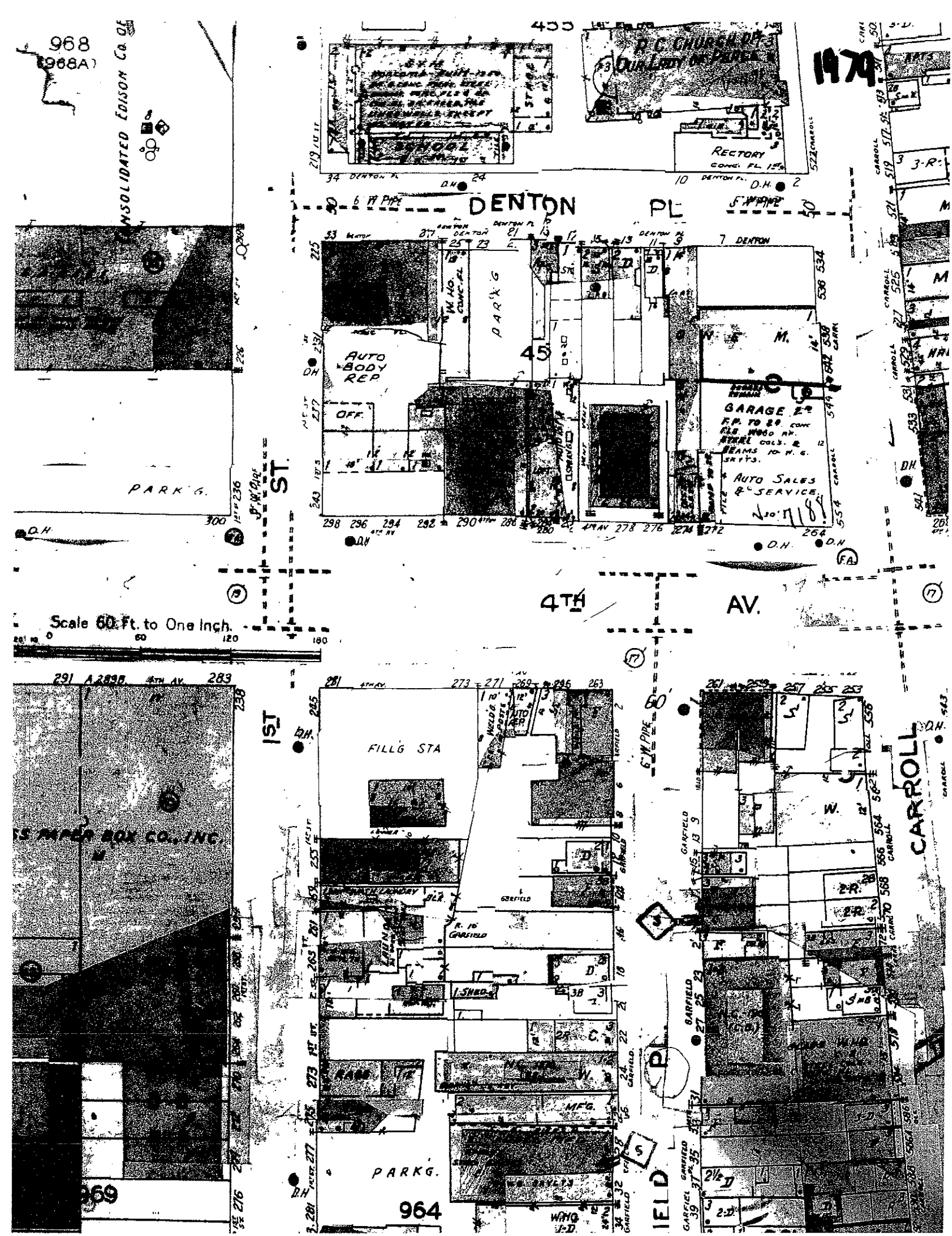
BARTLETT, LUDLAM & DILL ASSOCIATES
CITY SURVEYORS SINCE 1909

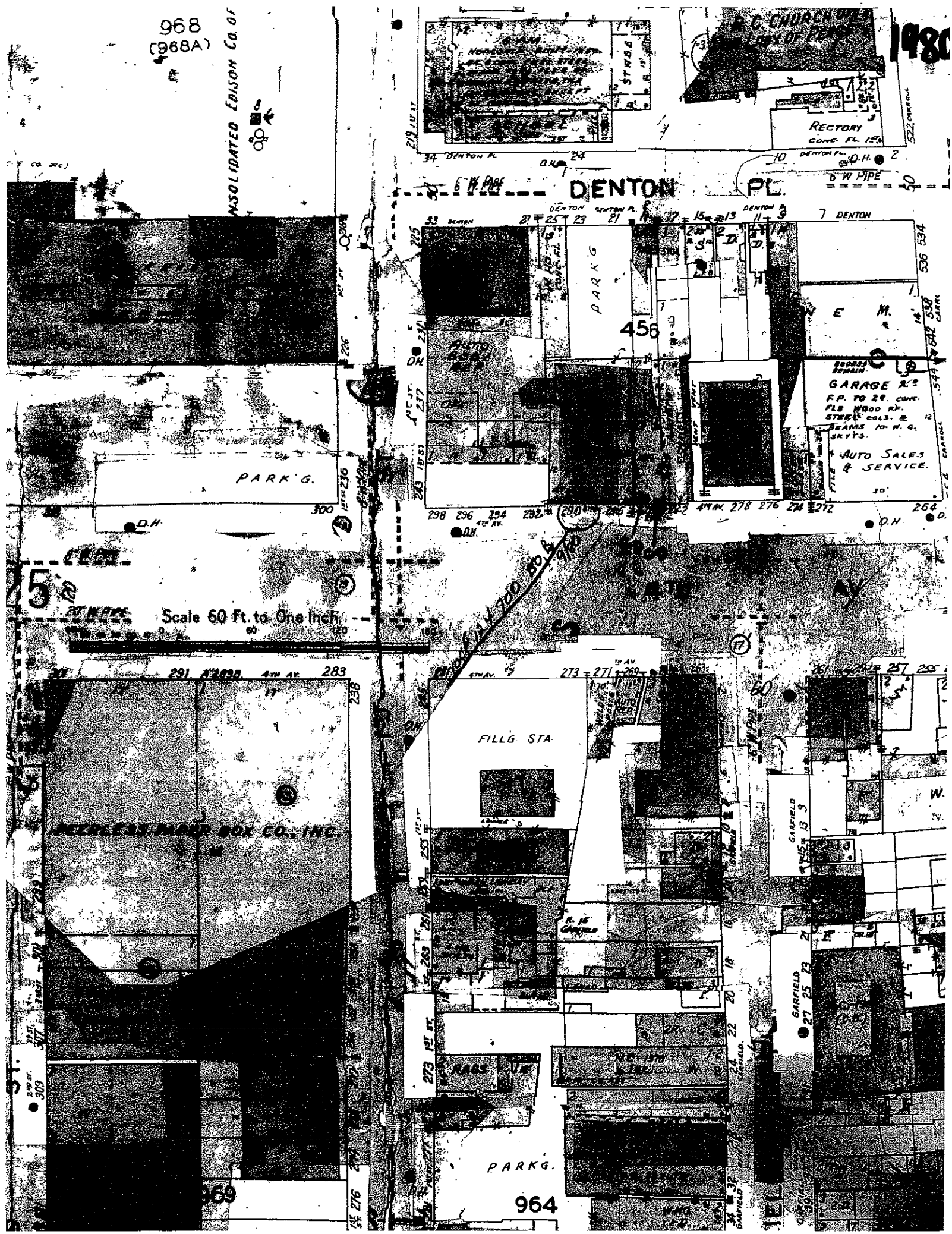

968
1906
455
R.C. CHURCH OF OUR LADY
HEAT OF FURNACE
LIGHTS OIL AND ELECTRIC
60 FT. PATH OF ROOF
30 FT. EAVES
TIN CLAD.
rectory
DENTON
PL.
6" W. Pipe
BLEACHERS.
JUNK YARD.
BOTTLE RACKS.
BOTTLE STORAGE.
WAGON MAKER.
WASH HO.
L.P.B.
1 WASH HO.
1 SHED.
WAGON SHED.
BLKSM.
TIN CLD.
456
FOURTH
Scale of Feet.
PARK
PLACE
Junk.
OFFICE.
RAGS.
1 SHED.
FOUNDATION
ONLY

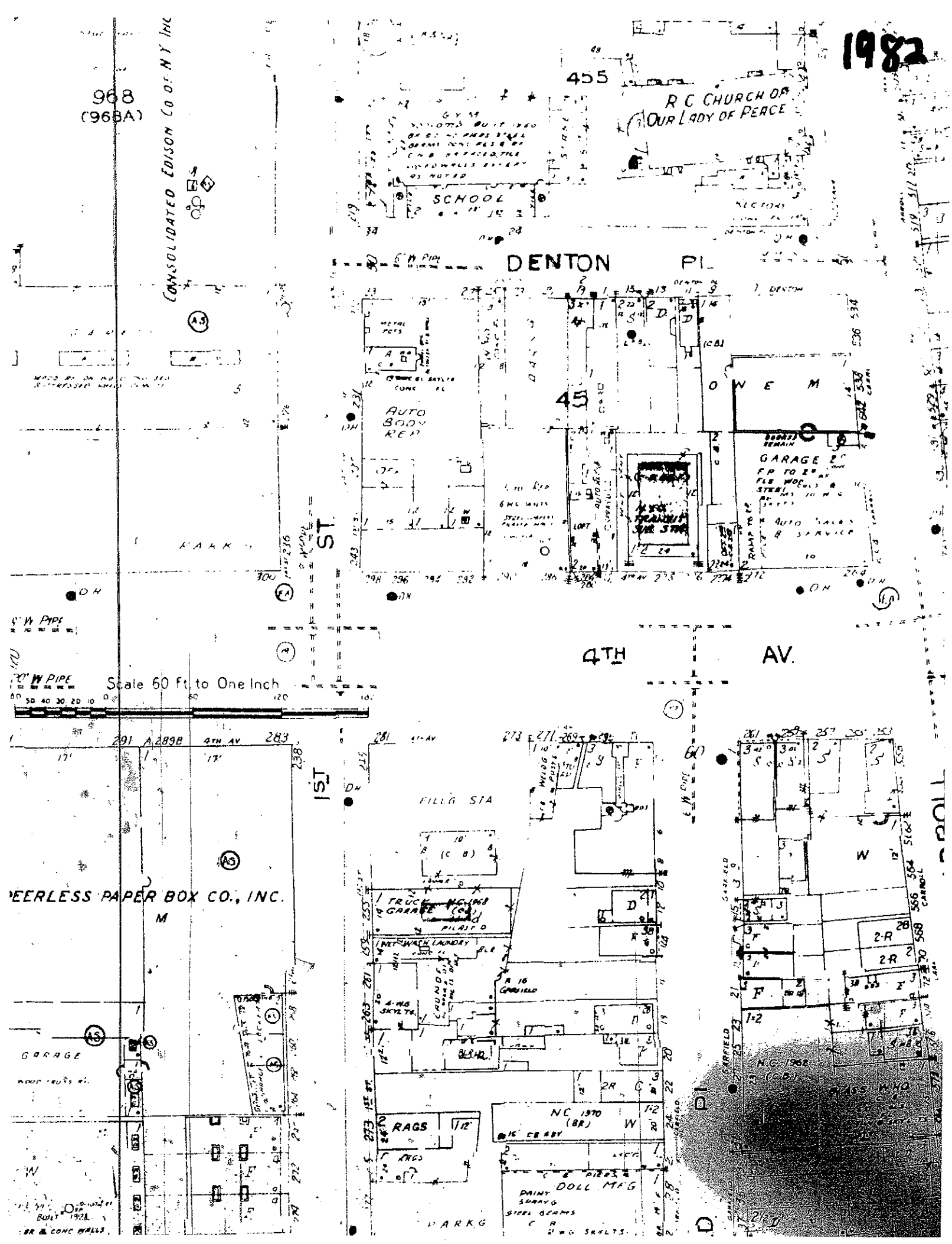

968
REINFORCED CONCRETE
FRAME W.O.
455
R.C. CHURCH OF OUR LADY OF PEACE
SCHOOL
FRAME
RECTORY
DENTON PL.
6" W. PIPE
456
FULTON SMELTING & REFINING WKS. INC.
STORAGE
GARAGE
6-WIREGL. SKYLIGHTS
CONCR. FLOOR
METAL POTS
BOTTLES
STONE YARD
FILLING STATION
G.T.
D.H.
8" W. PIPE
ST.
9" W. PIPE
20" W. PIPE
Scale 60 Ft. to One Inch.
60 50 40 30 20 10 0 60 120 180
4TH AV.
1ST
GALLERY
IRON AWNS
28 WIRE GLASS SKYLIGHTS
TILE WALLS
ELECTRIC GARAGE
3 TON ICE MACHINE
TRUSS
ROOF
CONSUMERS PIE & BAKING CORP'N.
RAGS
JUNK
SHED
WET WASH LAUNDRY
CONC. FLOOR
POULTRY MARKET
SKYLIGHT
LOCKERS
CANDLE FACTORY
PL.
1926

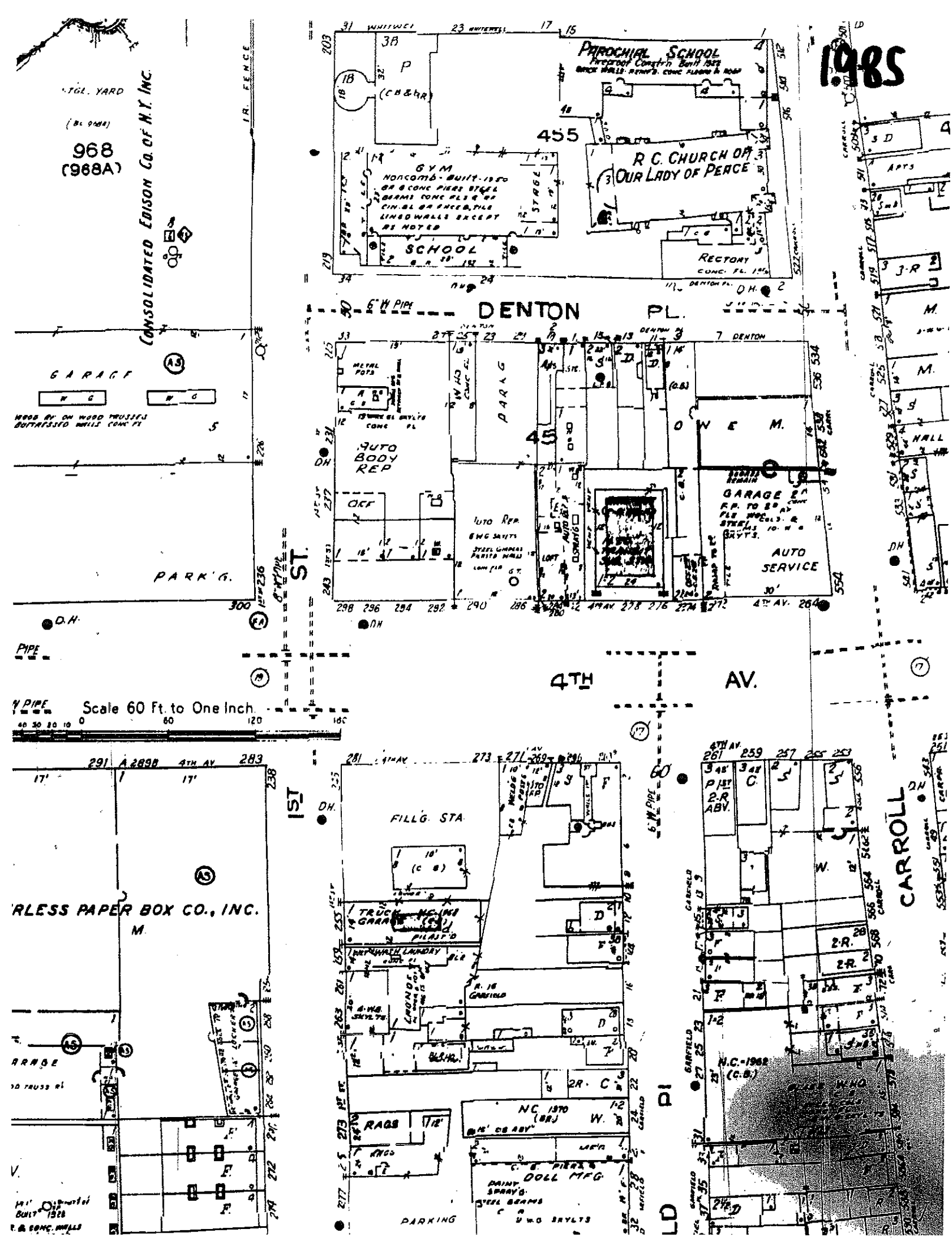

1951
455
968A
CONSOLIDATED EDISON CO. OF
R.C. CHURCH OF OUR LADY OF PEACE
RECTORY
SCHOOL
STAGE
DENTON PL.
6" W. PIPE
456
SCRAP METAL
AUTO REP. GARAGE 22
FINISHING METAL & WOOD PRODUCTS
BOTTLE STGE.
WASTE PAPER
GARAGE (AUTO)
GARAGE
ST.
4TH AV.
Scale 60 Ft. to One Inch.
1ST ST.
JUNK
RAGS
LAUNDRY
GARAGE & BEER DEPOT
BAKING CORP'N.
PL.

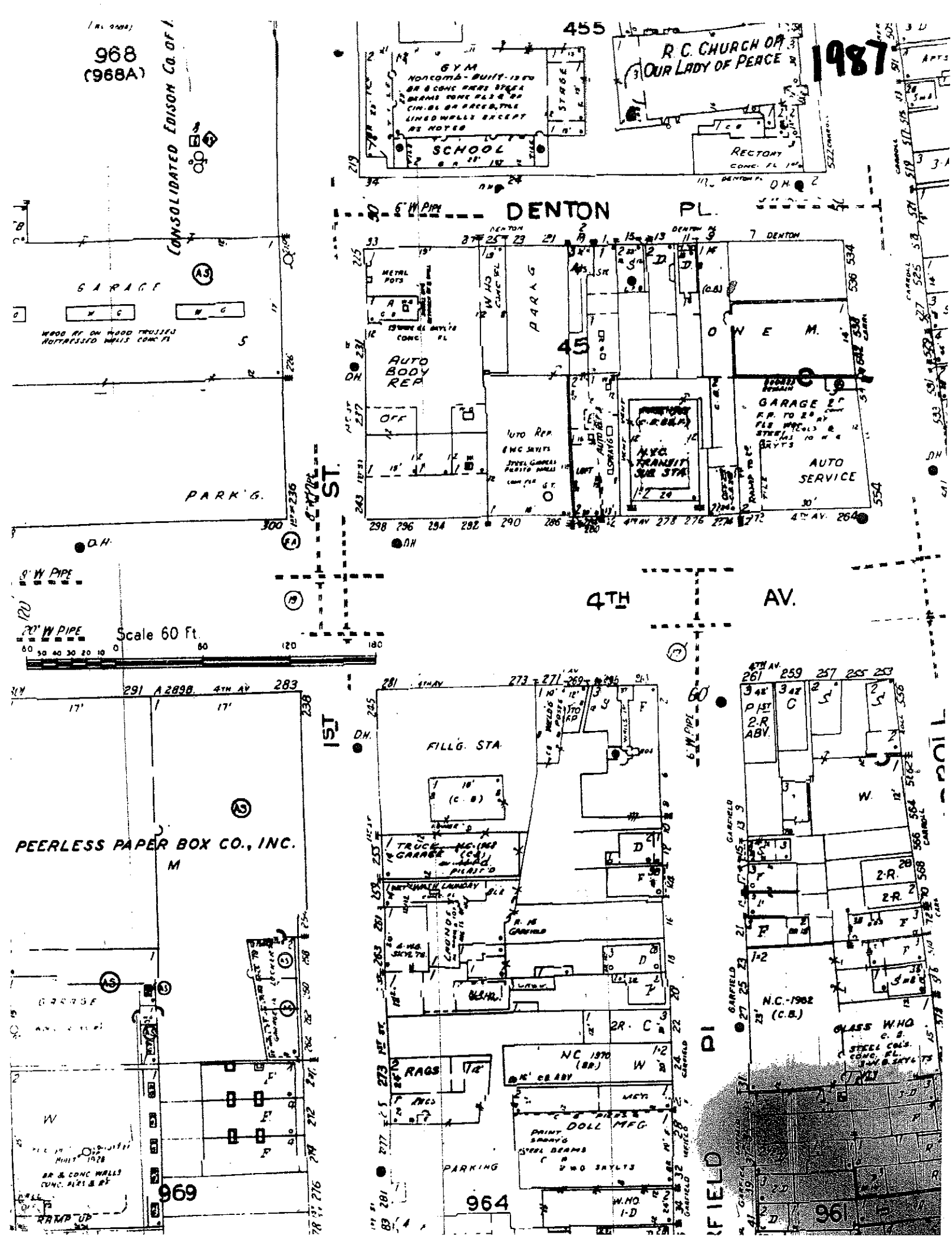

1965
CONSOLIDATED LB
GARAGE
PARK'G.
SCHOOL
RECTORY
DENTON PL.
6" W PIPE
456
WHOL. LINOLEUM.
AUTO RER
AUTO SALES & SERVICE.
GARAGE
1ST ST.
4TH AV.
Scale 60 Ft to One Inch
FILLG STA
PARK'G.
964
961
GARFIELD PL.
2-W.G. SKYLTS
WHOL. CHRISTMAS ORNAMENTS

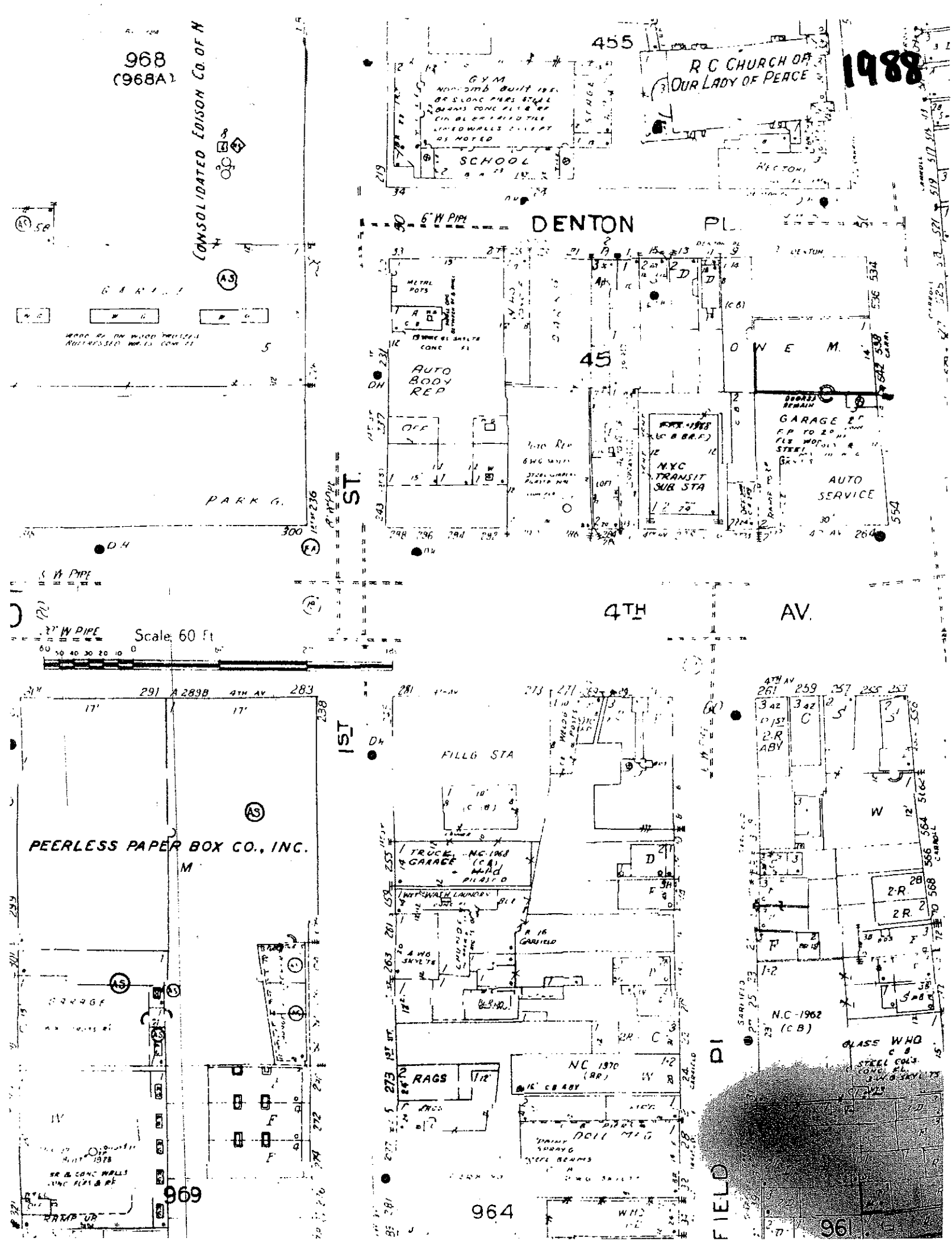

968
968A
CONSOLIDATED EDISON Co. of
1979
DENTON PL
6" W. Pipe
SCHOOL
R. C. CHURCH OF OUR LADY OF PEACE
RECTORY
CONC. FL. 15#
PARK'G.
AUTO BODY REP
OFF.
W. HD. CONC. FL.
GARAGE
AUTO SALES & SERVICE
4TH AV.
Scale 60 Ft. to One Inch.
0
60
120
180
1ST PL
FILLG STA
CARROLL
GARFIELD
PARK'G.
964
969


968
(968A)
CONSOLIDATED EDISON CO. OF
1980
DENTON PL.
RECTORY
PARK'G.
GARAGE
AUTO SALES & SERVICE.
FILLG. STA.
PARK'G.
PEERLESS MAIL BOX CO., INC.
Scale 60 Ft. to One Inch
456
964
969


1982
968
(968A)
CONSOLIDATED EDISON CO OF N Y INC
455
R C CHURCH OF OUR LADY OF PEACE
SCHOOL
DENTON PL
AUTO BODY REP
GARAGE
AUTO SALES & SERVICE
ST.
4TH AV.
Scale 60 Ft. to One Inch
291
289B
283
1ST
PEERLESS PAPER BOX CO., INC.
GARAGE
FILLG STA
TRUCK GARAGE
LAUNDROMAT
RAGS
DOLL MFG
PARKG
GARFIELD
2-R
W
F


1985
PAROCHIAL SCHOOL
Fireproof Constr. Built 1929
455
R.C. CHURCH OF OUR LADY OF PEACE
GYM
SCHOOL
RECTORY
DENTON PL.
AUTO BODY REP
AUTO REP
GARAGE
AUTO SERVICE
4TH AV.
968
(968A)
CONSOLIDATED EDISON Co. OF N.Y. INC.
GARAGE
PARK'G.
1ST ST.
Scale 60 Ft. to One Inch.
FILLG. STA.
RAGS
DOLL MFG.
PARKING
CARROLL PL
N.C.-1962
(C.B.)


1987
968
(968A)
CONSOLIDATED EDISON CO. OF N.Y.
GARAGE
PARK'G.
455
GYM
SCHOOL
R.C. CHURCH OF OUR LADY OF PEACE
RECTORY
DENTON PL.
PARK'G
AUTO BODY REP
OFF
AUTO REP
N.Y.C. TRANSIT SUB STA.
O W E M.
GARAGE
AUTO SERVICE
ST.
1ST
4TH AV.
Scale 60 Ft.
PEERLESS PAPER BOX CO., INC.
GARAGE
969
FILLG. STA.
TRUCK & GARAGE
RAGS
PARKING
964
DOLL MFG.
N.C.-1962 (C.B.)
961


1988
968
(968A)
CONSOLIDATED EDISON CO. OF N
455
R C CHURCH OF OUR LADY OF PEACE
GYM
SCHOOL
DENTON PL
6" W PIPE
AUTO BODY REP
OFF
N.Y.C. TRANSIT SUB STA
GARAGE
AUTO SERVICE
PARK G.
ST.
4TH AV.
Scale 60 Ft
PEERLESS PAPER BOX CO., INC.
969
FILLG STA
TRUCK GARAGE
RAGS
DOLL MFG
964
N.C.-1962
(C B)
GLASS WHO
961
FIELD

Semi-Annual Monitoring Report

1st Half 2013 Groundwater Sampling Event with Subsurface Investigation

August 14, 2013

Submitted for:
281 4th Avenue
Brooklyn, New York
New York City Tax Map Designation: *Block 964; Lot 1*
NYSDEC Spill # 05-51768

Submitted to:
Heron Real Estate Corp.
1525 Bedford Avenue, 2nd Floor
Brooklyn, New York

c/o AWR Holdings Corp.
3333 New Hyde Park Road, Suite 201
New Hyde Park, New York

Submitted by:
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
47-40 21st Street
Long Island City, New York

Project Number:
06-028

IMPACT ENVIRONMENTAL | 170 Keyland Court | Bohemia | New York | 11716 | 631.269.8800

TABLE OF CONTENTS

PLATES

TABLES

APPENDICES

1.0 PURPOSE & SCOPE

This semi-annual monitoring report was prepared to summarize the corrective action procedures performed at the property located at 281 4th Avenue, Brooklyn, New York, herein identified as the Site. The activities consist of the groundwater semi-annual monitoring and analysis, and the concurrent supplementary subsurface investigation work, performed concurrent with the semi-annual monitoring event.

The protocols used for this report were based, in part, upon the following documents: 1) New York State Department of Environmental Conservation CP-51 Soil Cleanup Guidance document; 2) the New York State Department of Environmental Conservation, Technical Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Limitations; 3) the New York State Department of Environmental Conservation, Sampling Guidelines and Protocols, Technical Background and Quality Control Assurance for the New York State Department of Environmental Conservation Spill Response Program, dated September 1992; and 4) May 2010, New York State Department of Environmental Conservation DER-10 Technical Guidance for Site Investigation and Remediation document The activities performed under the scope of this investigation have been summarized in this report in the following sections.

2.0 SITE DESCRIPTION

2.1 Topography

The areal extent of the Site is approximately 10,000 square feet. The Site contains one single-story, masonry building with an approximate footprint of 1,850 square feet. The surface area of the Site consists of asphalt parking areas, concrete walkways, and vegetative landscaping. The Site exhibits low topographic relief (less than three percent slopes). See **Plate 1:** Project Location Map, *Brooklyn, New York.*

2.2 Site History

The Site was formerly utilized as a gasoline filling and automobile service station. According to NYSDEC Petroleum Bulk Storage records, twelve (12) 550-gallon underground gasoline storage tanks (USTs), one (1) 550-gallon fuel oil UST and one (1) 550-gallon waste oil UST were historically operated and maintained on the Site. These USTs were installed on the Site from November 1967 to January 1968 and removed in September 1990. A review of historic Sanborn maps revealed that the former gasoline storage tanks were located on the southwest corner of the Site (at the intersection of 1st Street and 4th Avenue). Approximately 219 tons of petroleum impacted soil was excavated as a result of the tank abandonment work to remove residual soil contamination within the excavation(s). Three (3) onsite groundwater monitoring wells were installed in October 1990. Subsequent groundwater samples were reportedly collected between October 1990 and October 1993. Said sampling results indicated petroleum-related volatile organics reportedly detected above New York State drinking water standards.

During Site redevelopment work in May 1994, an additional six (6) 550-gallon and two (2) 275-gallon petroleum USTs were removed. Approximately 373 tons of petroleum impacted soil was excavated as a result of the tank abandonment work, due to residual soil contamination reportedly found within the UST excavation(s). A soil vapor extraction (SVE) remediation system was reportedly installed at the Site and was operable in January 1995. No other information in regards to operation duration and/or permanent shutdown of said system was available. Historic documentation in regards to the two UST removal events is provided in **Appendix A**.

The layout of the former gasoline station is depicted on a historic survey of the Site and was plotted into the base map on **Plate 2**. Review of NYSDEC spill logs identified that one active spill incident (NYSDEC Spill case number 0551768) is listed for the Site based on the data relied upon from a subsurface investigation conducted on the northern adjacent property (see Section 2.3).

2.3 Surrounding Land Use

Impact Environmental conducted a review of the Revised Subsurface Investigation Report, dated February 13, 2006 prepared by Hydro Tech Environmental Corp (HTC) with respect to the property identified as 269-271 4th Avenue, Brooklyn, New York, occupied by Alba Auto Repair (Alba Auto Site). The scope of work performed by HTC at the Alba Auto Site included the acquisition and analysis of soil and groundwater samples. The sampling activities were conducted in March 2005 and September 2005. The results of both sampling events were presented in the Report. The March 2005 sampling event included the installation of six soil probes to a depth of sixteen feet below grade. One sample was selected from each soil probe at a depth interval of fourteen to sixteen feet below grade for laboratory analysis. In addition, three groundwater temporary well points were installed in conjunction with three of the six soil probes (SP-1, SP-2 and SP-3). The analysis of these samples included volatile and semi-volatile organic analytes.

The November 2005 sampling event included the installation of six soil probes to a depth ranging from twelve to twenty-four feet below grade. One shallow sample and one deep sample were selected from each soil probe for laboratory analysis. In addition, six permanent groundwater monitoring wells were installed, developed and sampled in conjunction with the six soil probes. The analysis of these samples included volatile and semi-volatile organic analytes. The construction of the wells were specified in the report as having the screened interval set at a depth of twenty to thirty feet below grade. The depth to the water table measured at the Alba Auto Site was reported by HTC as ranging from 13.33 to 16.14 feet below grade. The monitoring wells installed on the site were surveyed by HTC to determine site-specific groundwater flow direction. Based on these field measurements, groundwater contour maps were generated and presented in the report that indicated that the site-specific groundwater flow direction was toward the northeast.

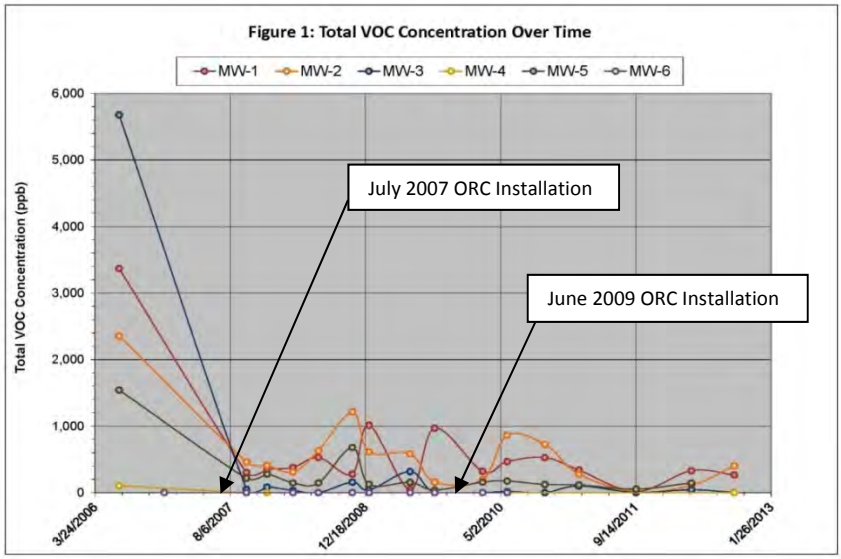
The results of the sampling activities performed by HTC indicated the presence of volatile and semi-volatile organic analytes in subsurface soil and groundwater above the applicable NYSDEC guidance criteria. HTC ‘s evaluation of results indicates that the contamination detected from their sampling activities is associated with gasoline; that site-specific groundwater flow is reported to move toward the northeast; that one possible source of the gasoline related contamination is the McDonalds (formerly utilized as a gasoline filling station); and that a source of gasoline related contamination was not identified on the Alba Auto Site. However, HTC failed to review any historic data regarding the Alba Auto Site; in particular building records and Sanborn maps. Impact Environmental conducted a review of these historic records and determined that five (5) different properties in the immediate area, including the Alba Auto Site, formerly maintained underground gasoline storage tanks between 1926 and 1988. The Alba Auto Site maintained at least one (1) underground gasoline storage tank from 1926 to at least 1951 in a portion of the existing building used for automotive repair. The sampling plan performed on the Alba Auto Site

by HTC failed to target any of the gasoline USTs, or target any specific sampling areas to determine the presence of a gasoline source. In addition, HTC failed to recognize or offer explanations for the anomalous groundwater measurements, which exhibited a gradient greater than 0.05 (3ft. elevation drop over distance of 50ft), secured from their groundwater monitoring wells. A gradient of such significance is incongruous, suggesting the presence of an "outside" influence. Therefore, groundwater flow interpretations or any statement with respect to the fate and transport of contaminants from the Site would be unreliable or speculative. Based on the data relied upon from the investigation conducted by HTC, the NYSDEC was contacted to report a spill suspected to have originated on the Site.

3.0 PREVIOUS INVESTIGATION AND REMEDIATION

In June 2006, Impact Environmental performed a Subsurface Investigation on the Site. The investigation consisted of the sampling and analysis of subsurface soil and groundwater to define the extent of contamination associated with NYSDEC spill case number 0551768. Laboratory analysis performed on the groundwater samples detected elevated concentrations of gasoline-related contaminants. A total of six monitoring wells, identified as MW-1 through MW-6, were installed on the Site. The tabulated soil and groundwater sampling data acquired and analyzed for the June 2006 Subsurface investigation are shown in **Table 1** and **Table 2**, respectively. A site plan depicting the soil boring locations and groundwater monitoring well locations is presented in Plate 3.

Between July 5, 2007 and July 31, 2007, Oxygen Releasing Compound (ORC) application was conducted on the Site for enhanced bio-remediation. A total of 11 injection points were installed on the Site. A total of 510 pounds of ORC mixed to seventy (70) percent slurry was injected at the Site. The July 2007 ORC injection point locations are presented in **Plate 2**. By June 2008, significant reduction in contamination level has been observed in groundwater. Levels of target gasoline related compounds were reduced by 73% (in MW-2) to 100% (MW-3 and MW-4). However, benzene was still detected in MW-1 and MW-5 at 133 ppb and 55 ppb respectively. Accordingly, the 2nd round ORC® injection was designed and performed. Between June 1, 2009 and June 2, 2009, a second ORC application was conducted on the Site. A total of 390 pounds of ORC was mixed to seventy (70) percent slurry and then injected at the Site. No hydraulic control was recommended due to the low injection rate. A total of 13 injection points were installed on the Site utilizing Geoprobe in conjunction with pressurized grout machine. The June 2009 ORC injection point locations are presented in **Plate 2**. By September 2011, a significant reduction in contamination level has been observed. The total VOC reduction rate ranges from 97% to 100%. As of The effectiveness of ORC application on the site is illustrated in **Figure 1**.



4.0 JUNE 2013 SUPPLEMENTAL SUBSURFACE INVESTIGATION

In June 2013, Impact Environmental performed a Supplemental Subsurface Investigation on the Site. The investigation consisted of the sampling and analysis of subsurface soil proximal to soil probe SP-1 (installed during the June 2006 Subsurface Investigation work) to verify the effectiveness of the remedial work performed and to ascertain current BTEX concentrations in soil, proximal to the abovementioned soil probe. Said Supplemental Subsurface Investigation work was performed pursuant to Departmental recommendations conveyed during a January 2013 teleconference in regards to the Site, pursuant towards closure of NYSDEC Spill case number 0551768. Said Departmental recommendations consisted of installing a soil boring proximal to soil boring SP-1, collect and field screen soil samples at and/or above the observed water table interface, and submit one (1) soil sample to an ELAP-accredited environmental laboratory for volatile organic compound (VOC) analyses. The Department also requested to conduct the semi-annual groundwater monitoring event, concurrent with the Supplemental Subsurface Investigation work. Said groundwater monitoring event is described in Sections 5.0 and 6.0 in this report.

4.1 Subsurface Soil Sampling

On June 20, 2013, Impact Environmental installed one (1) soil probe, identified as SB-01 as part of this investigation. The soil probe sampling location is shown on **Plate 3** and the soil probe boring log is presented in **Appendix B**.

4.1.1 Subsurface Probe Installation

Subsurface probe SB-01 was installed utilizing a hand auger system. Said hand auger system was used to expedite the Site investigation work, without incurring potential MTA easement permitting delays by utilizing other drilling methods and machinery to perform the work. Said work was performed in accordance with the McDonald's USA LLC health and safety protocols and procedures and was performed within the overburden subsurface material, to a terminal depth upon encountering the onsite water table.

Soil probe SB-01 was installed proximal to monitoring well MW-5 and soil boring SP-1, located within the footprint of the former gasoline UST tank field. Said probe was pre-cleared to approximately five (5) feet below grade utilizing an air knife and vacuum methodology and equipment.

4.1.2 Field Headspace Analysis

Headspace analyses were performed on each subsurface soil sample to provide precursory data regarding contamination. Results of the analysis were used to adjust the sample and analysis program to yield the most accurate and representative results. The headspace analyses data are cited in the soil boring logs, presented in **Appendix B**.

4.1.3 Headspace Analysis Procedure

Headspace analysis was performed on each of the acquired samples utilizing a portable photoionization detection (PID) meter, to measure what, if any, hydrocarbon concentrations were present in isolated portions of the secured samples. Headspace analysis was conducted by partially filling a wide-mouth glass container with sample aliquot and sealing the top with aluminum foil, thereby creating a void. This void is referred to as the sample headspace.

To facilitate the detection of any hydrocarbons contained within the head space, the container was agitated for a period of thirty (30) seconds. The probe of the vapor analyzer was then injected through the foil into the headspace to measure the hydrocarbon concentrations present. A Photovac Micro-Tip, photo ionization detection meter (PID) was the organic vapor analyzer selected for the head space analysis. A PID utilizes the principle of photo ionization for detection and measurement of hydrocarbon compounds. A PID does not respond to all compounds similarly; rather, each compound has its own response factor relative to its calibration. For this investigation, the PID was calibrated to isobutylene. Hydrocarbon relative response factors for a PID calibrated to isobutylene are published by the manufacturer.

4.1.4 Sample Characterization

A visual inspection of all samples recovered during the installation of each of the soil probe was conducted to identify any gross signs of chemical contamination and to classify the sample media. Gradation classifications were made in accordance with the Unified Soil Classification System. The field characterization results are shown in the Boring Logs presented in **Appendix B**.

In general, the subsurface soil encountered during this work was found to consist of light brown to reddish-brown, coarse to medium grained, poorly sorted sands and gravel, with trace silts (indicative of typical fill material) approximately between one (1) to six (6) feet below existing grade (BEG). Below this stratum, the subsurface soil was found to contain medium to fine grained well sorted silty sands to sandy silts with trace clays, between six (6) feet and ten (10) feet BEG. The substratum below the aforementioned section, between ten (10 and twelve (12) feet BEG, consisted of light gray to dark gray to greenish-gray medium to fine grained, poorly sorted sands with some silt and gravel. The soil boring terminal depth was reached at approximately twelve (12) feet BEG, with encountering the apparent water table at approximately 11.5 feet BEG.

4.1.5 Soil Sample Collection

Soil samples were collected utilizing the hand-auger system, previously described in Section 4.1.1 and utilizing headspace analyses and sample characterization techniques, previously described in Sections 4.1.2 and 4.1.2, respectively. Subsurface soil samples were secured from the soil boring SB-01 at the 5 to 6 foot, 6 to 7 foot, 7 to 8 foot, 8 to 9 foot, 9 to 10 foot, 10 to 11 foot and 11 to 12 foot depth intervals.

After comparing the headspace analyses results with the observed field observations and historic subsurface investigation data, the sample from the 11 to 12 foot depth interval was containerized in laboratory-prepared glassware, preserved in an iced cooler and transported under proper chain-of-custody procedures to an ELAP-accredited commercial environmental laboratory for analyses. The containerized sample represents the unsaturated to moist soil collected from within the 11 to 12 foot depth interval. The abovementioned soil sample was labeled for identification purposes as SB-01.

5.0 GROUNDWATER MONITORING PLAN

A Quarterly Monitoring Program was developed to execute the sampling and analysis requirements of the NYSDEC. All sampling locations can be referenced with **Plate 5**.

The current monitoring well network consists of onsite monitoring wells MW-1, MW-2, MW-3 and MW-5. In an August 20, 2010 electronic correspondence, NYSDEC agreed to remove monitoring wells MW-4 and MW-6 from the monitoring well network. In a follow-up conversation with NYSDEC, it was also agreed upon to reduce the monitoring frequency from quarterly to semi-annual.

During this sampling event, groundwater samples were collected from monitoring well MW-4 and monitoring well MW-6, in addition to the abovementioned wells within the current monitoring network. Said samples were collected as communicated by the Department, during the January 2013 teleconference. Any future groundwater sampling events will consist of sample collection from the existing monitoring network (monitoring wells MW-1, MW-2, MW-3 and MW-5), unless directed otherwise by NYSDEC.

5.1 Semi-Annual Monitoring Well Sampling and Analysis

5.1.1 Monitoring Well Sampling Procedure

On June 24, 2013, monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6 were gauged for the presence and thickness of free phase product and depth to water with an oil-water interface meter. No measurable free phase product was observed in any of the wells. Each well was developed by pumping out a minimum of three (3) static well volumes utilizing a peristaltic pump. A static well volume is defined as:

$$\textit{Static well volume} = \textit{height of water column} \times (\textit{well radius})^2 \times \textit{pi} \times 7.48$$

where 7.48 is the conversion factor for cubic feet to gallons.

Subsequent to the well gauging and development procedures, one (1) water sample was collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6, utilizing a dedicated disposable bailer to prevent cross-contamination. Said groundwater samples were containerized in laboratory prepared and preserved glassware, preserved in an iced cooler and transported under proper chain-of-custody procedures to an ELAP-accredited commercial environmental laboratory for analyses.

5.2 Groundwater Elevation Survey

A groundwater elevation survey was performed on the Site to determine groundwater flow direction. The elevation of groundwater was gauged at each monitoring well and recorded. The elevations were used to graphically define the planimetric surface of the water table. The elevations of the top of the casings were represented with respect to each other and based on a benchmark elevation or approximate elevation above mean sea level. The groundwater elevations were based as a function of the depth to water and these elevations.

A groundwater elevation survey was performed on June 24, 2013, concurrent with the collection of groundwater samples. Utilizing the elevation data collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6, a polynomial regression water table model was produced. Based on the model contours, the average hydraulic gradient was approximated to be 0.007896 ft/ft. The calculated gradient indicated a relative uniform flow direction to the apparent north by northeast. The groundwater elevation survey results are represented in **Table 4** and graphically depicted on **Plate 4**.

5.3 Laboratory Sample Identification

The groundwater samples secured from the onsite monitoring wells described in Section 5.1, were labeled for identification purposes as MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6, respectively.

6.0 LABORATORY ANALYSIS

6.1 Analytical Test Methods

The soil and groundwater samples were transported to Alpha Analytical, Inc., an ELAP-accredited commercial environmental laboratory located in Westborough, MA for analysis. Selection of the analytical test methods were based on the ***September 1992, New York State Department of Environmental Conservation, Sampling Guidelines and Protocols, Technical Background and Quality Control Assurance for the New York State Department of Environmental Conservation Spill Response Program*** guidance document, the ***New York State Department of Environmental Conservation Technical Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Limitations*** guidance document, the ***New York State Department of Environmental Conservation CP-51 Soil Cleanup Guidance*** document; and the **May 2010, *New York State Department of Environmental Conservation DER-10 Technical Guidance for Site Investigation and Remediation*** document.

The laboratory analyses performed on the soil sample consisted of the United States Environmental Protection Agency (USEPA) Method 8260 NYSDEC CP-51 list for target volatile organic compounds (VOCs). The tabulated laboratory results are presented in **Table 3** and the laboratory reports are presented in **Appendix D.**

The laboratory analysis performed on the groundwater samples collected from the existing monitoring wells consisted of the United States Environmental Protection Agency (USEPA) Method 8260 NYSDEC CP-51 list for target volatile organic compounds. The tabulated laboratory results are presented in **Table 5** and the laboratory reports are presented in **Appendix D.**

6.2 Laboratory Analytical Results

The laboratory analysis performed on the soil boring sample detected concentrations of target VOC analytes at concentrations below the applicable guidance criteria. The laboratory analysis performed on the groundwater samples detected concentrations of target VOC analytes at concentrations slightly the applicable guidance criteria. The following summary presents such sample detections.

6.2.1 Soil Boring Sampling Results

Several VOCs were detected in soil boring sample SB-01, but at concentrations below NYSDEC CP-51 Unrestricted SCO standards.

6.2.2 Groundwater Sampling Results

The following New York State regulatory exceedences were detected in groundwater samples collected from existing monitoring wells previously described in Section 5.1:

- **MW-2**: n-propylbenzene (5.7 µg/l)
- **MW-5**: benzene (2.1 µg/l)

Said reported exceedences were only marginally above the 6NYCRR Part 703 Class GA groundwater quality standards for benzene (1 µg/l) and n-propylbenzene (5 µg/l). Other target analyte VOCs were detected in groundwater samples collected from monitoring wells MW-2, MW-3, and MW-5, but at concentrations below NYSDEC Part 703 groundwater standards. VOCs were not detected in groundwater samples collected from monitoring wells MW-1, MW-4 and/or MW-6.

7.0 EVALUATION OF RESULTS

During the June 2006 Subsurface Investigation, soil probe SP-1 was installed within the reported footprint of a former gasoline UST tank field. Residual soil contamination from within said tank field was identified in soil samples collected from soil probe SP-1, just above the observed water table. Following the Department's recommendations, Impact Environmental installed soil probe SB-01 on June 20, 2013, proximal to soil probe SP-1. Soil samples were collected from said probe between five (5) feet BEG to the observed water table. An unsaturated soil sample, collected just above the observed water table, within the 11 ft. to 12 ft. interval, from said boring was analyzed for target VOCs at an ELAP-accredited laboratory. Laboratory results of said soil sample collected did not detect VOCs at concentrations above NYSDEC CP-51 Unrestricted Soil Cleanup Objective concentrations.

On June 24, 2013, a total of six (6) onsite and offsite groundwater monitoring wells were sampled as part of the semi-annual groundwater monitoring event. The wells that were sampled as part of this event consisted of onsite monitoring wells MW-1, MW-2, MW-3, MW-4 and MW-5, and offsite monitoring well MW-6. The laboratory analyses performed on said groundwater samples detected nominal concentrations of gasoline related target volatile organic analytes, marginally above the NYSDEC 6NYCRR Part 703 Class GA groundwater standards; from monitoring wells MW-2 (n-propylbenzene - 5.7 µg/l) and MW-5 (benzene - 2.1 µg/l). Other target analyte VOCs were detected in groundwater samples collected from monitoring wells MW-2, MW-3, and MW-5, but at concentrations below NYSDEC Part 703 groundwater standards. VOCs were not detected in groundwater samples collected from monitoring wells MW-1, MW-4 and/or MW-6. Post-ORC Injection groundwater monitoring events have demonstrated a significant reduction of gasoline related VOCs in onsite groundwater. The results from this semi-annual groundwater sampling event confirms that no remaining source exists, with only nominal concentrations of VOCs reported in monitoring wells MW-2 and MW-5.

It appears that onsite, gasoline-related contamination associated with NYSDEC spill case number 0551768 was effectively mitigated to the extent practical. Two (2) bioremedative agent (ORC) injection events were performed in July 2007 and June 2009, to address previously reported residual soil contamination associated with the former UST tank field. The results of the supplemental subsurface investigation indicate that said residual soil contamination was remediated to concentrations below NYSDEC CP-51 Unrestricted Soil Cleanup Objectives. VOCs in onsite groundwater either meet or are marginally above 6NYCRR Part 703 Class GA Groundwater Quality Standards.

Based on the soil and groundwater data presented in this report, it is requested that NYSDEC spill case number 0551768 be closed and no further actions in support of said spill case number be warranted.

IMPACT ENVIRONMENTAL CLOSURES, INC.

Michael Bluight, *Environmental Professional*
Project Manager

Kevin Kleaka, *Environmental Professional*
VP, Sr. Environmental Scientist

DISCLAIMER FOR SUBSURFACE INVESTIGATIONS

The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by the Client.

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

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

The purpose of this report is to assess the physical characteristics of portions of the Site with respect to the presence in the environment of hazardous materials. No specific attempt was made to check on the compliance of present or past owners or operators of the Site with the federal, state, or local laws and regulations, environmental or otherwise.

The conclusions and recommendations contained in this report are based in part, where noted, upon the data obtained from a limited number of soil samples obtained from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

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

Except as noted within the text of the report, no qualitative laboratory testing was performed as part of the Site assessment. Where such analyses have been conducted by an outside laboratory, Impact Environmental Consulting, Inc. has relied upon the data provided, and has not conducted an independent evaluation of the reliability of the data.

The conclusions and recommendations contained in this report are based in part, where noted, upon various types of chemical data and are contingent upon their validity. The data have been reviewed and interpretations were made in the report. As indicated within the report, some of the data may be preliminary “screening” level data, and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, the data should be reviewed, and the conclusions and recommendations presented herein modified accordingly.

Chemical analyses have been performed for specific constituents during the course of this Site assessment, as described in the text. However, it should be noted that additional chemical constituents not searched for during the current study might be present in soil and/or groundwater at the Site.

Impact Environmental

Semi-Annual Monitoring Report

Former Odessa Oil Corp Service Station
281 4th Avenue
Brooklyn, New York

Plates

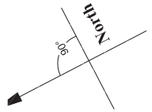
Plate 1: Project Location Map

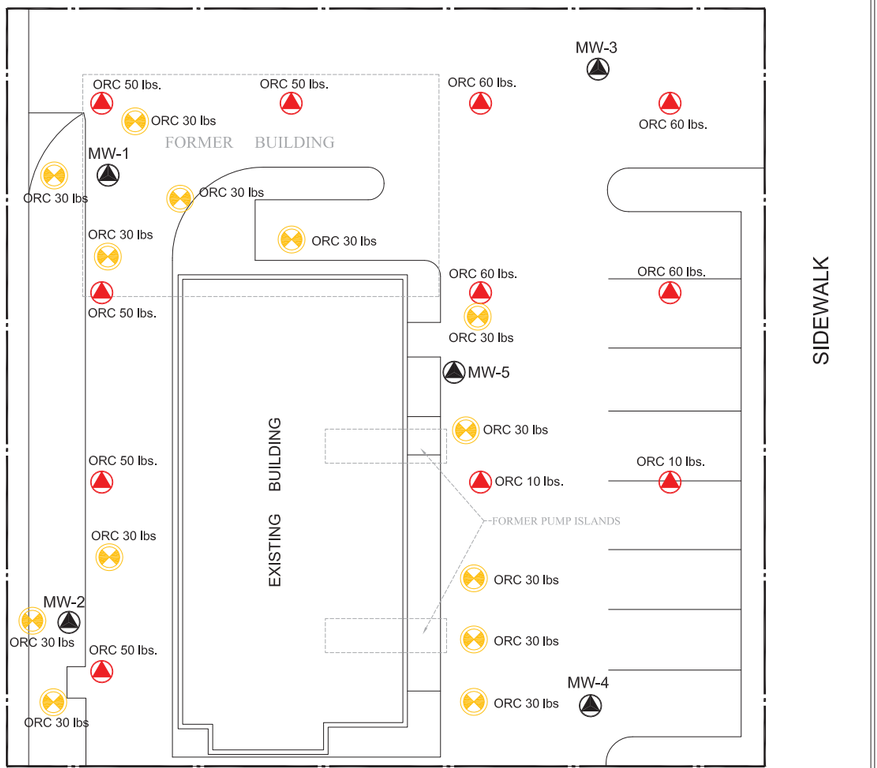
281 Fourth Avenue
Brooklyn, New York

IMPACT ENVIRONMENTAL

170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599

Google Earth
2001 Half Foot Natural Color Long Island Zone





SIDEWALK

1ST STREET

MW-6

SIDEWALK

FOURTH AVENUE

Legend

- Groundwater Monitoring Well
- ORC Slurry Injection Locations (June 2009)
- ORC Slurry Injection Locations (July 2007)

Note:
Locations of former building and pump islands are based upon survey prepared by Bartlett, Luolam & Dill

PROJECT # 06-028
PLATE # 02
Scale in feet: 10 5 0 10 20 30

TITLE: ORC Injection Map

281 4th Avenue
Brooklyn, New York

DRAWN BY:	WF
CHECKED BY:	KK
DATE:	2/4/2013 (REV)
SCALE:	1" = 20'

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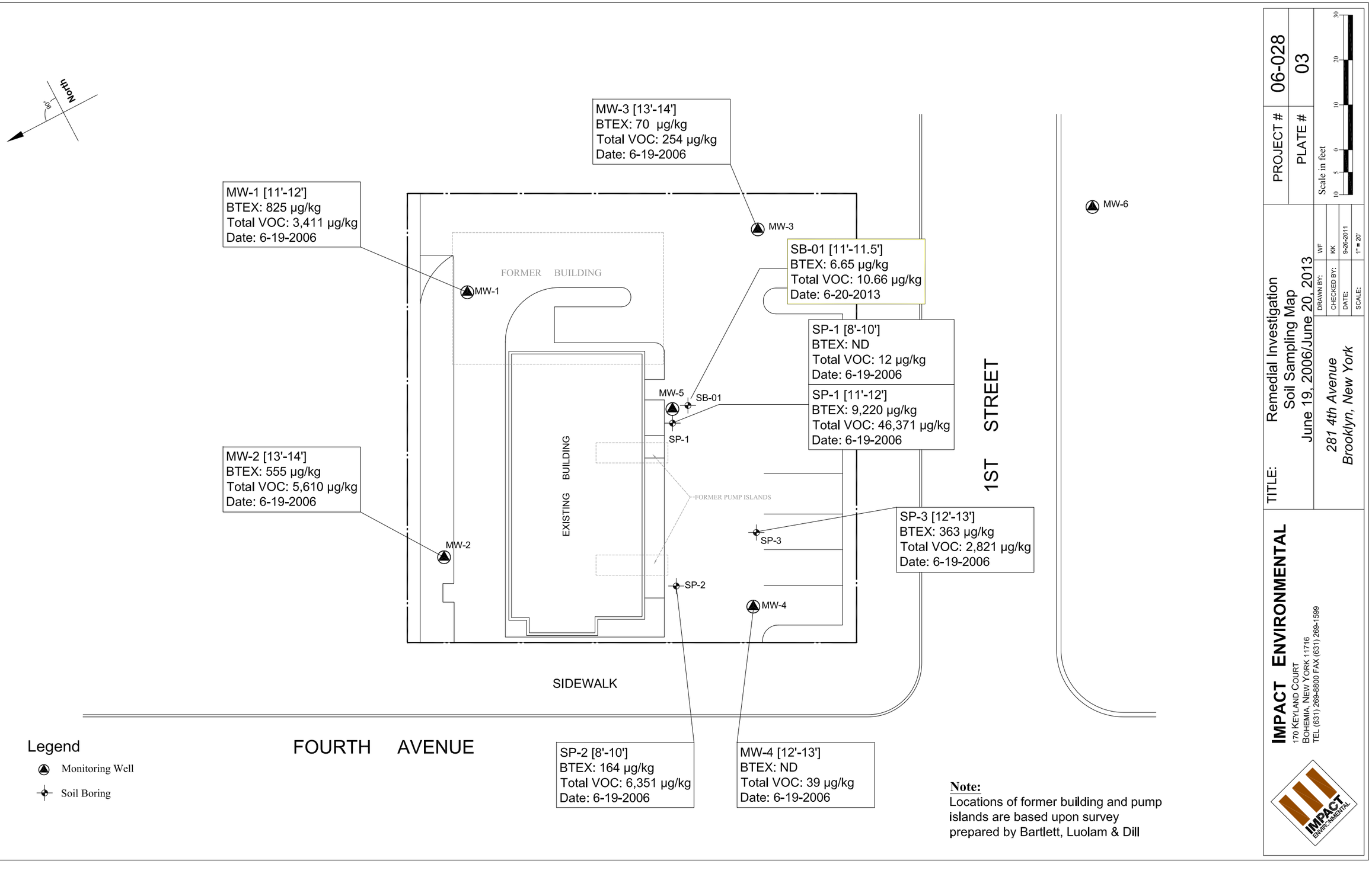
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599


North
MW-3 [13'-14']
BTEX: 70 µg/kg
Total VOC: 254 µg/kg
Date: 6-19-2006
MW-1 [11'-12']
BTEX: 825 µg/kg
Total VOC: 3,411 µg/kg
Date: 6-19-2006
MW-3
SB-01 [11'-11.5']
BTEX: 6.65 µg/kg
Total VOC: 10.66 µg/kg
Date: 6-20-2013
FORMER BUILDING
MW-1
SP-1 [8'-10']
BTEX: ND
Total VOC: 12 µg/kg
Date: 6-19-2006
MW-5
SB-01
SP-1 [11'-12']
BTEX: 9,220 µg/kg
Total VOC: 46,371 µg/kg
Date: 6-19-2006
SP-1
EXISTING BUILDING
FORMER PUMP ISLANDS
MW-2 [13'-14']
BTEX: 555 µg/kg
Total VOC: 5,610 µg/kg
Date: 6-19-2006
SP-3 [12'-13']
BTEX: 363 µg/kg
Total VOC: 2,821 µg/kg
Date: 6-19-2006
SP-3
MW-2
SP-2
MW-4
SIDEWALK
1ST STREET
MW-6
FOURTH AVENUE
SP-2 [8'-10']
BTEX: 164 µg/kg
Total VOC: 6,351 µg/kg
Date: 6-19-2006
MW-4 [12'-13']
BTEX: ND
Total VOC: 39 µg/kg
Date: 6-19-2006
Legend
Monitoring Well
Soil Boring
Note:
Locations of former building and pump islands are based upon survey prepared by Bartlett, Luolam & Dill
PROJECT # 06-028
PLATE # 03
Scale in feet
10 5 0 10 20 30
DRAWN BY: WF
CHECKED BY: KK
DATE: 9-26-2011
SCALE: 1" = 20'
TITLE: Remedial Investigation
Soil Sampling Map
June 19, 2006/June 20, 2013
281 4th Avenue
Brooklyn, New York
IMPACT ENVIRONMENTAL
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599

Note:
Locations of former building and pump islands are based upon survey prepared by Bartlett, Luolam & Dill Associates

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1560 BROADWAY, SUITE 1024
NEW YORK, NEW YORK 10036
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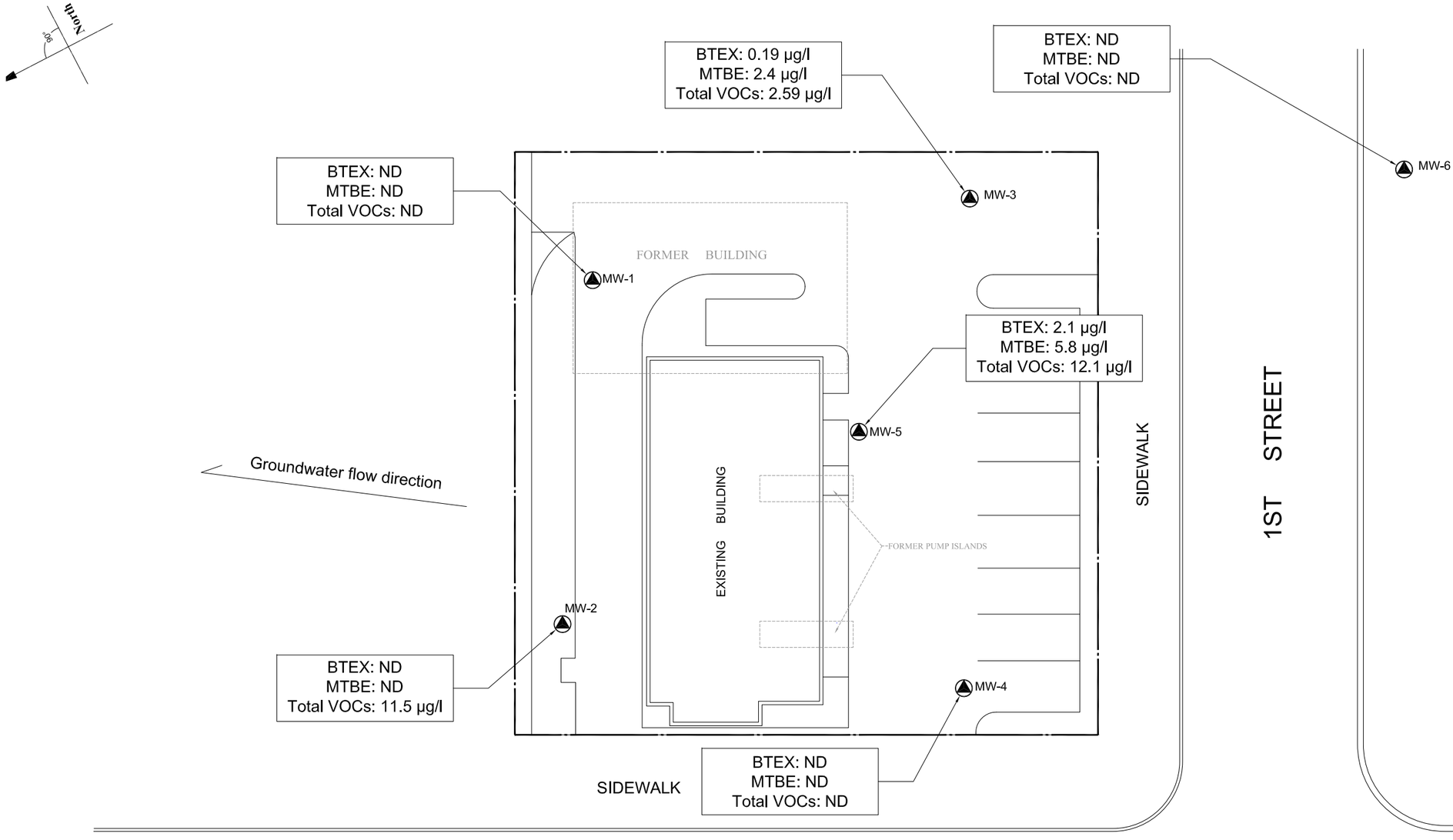
TITLE: Groundwater Potentiometric Map
June 24, 2013

281 4th Avenue
Brooklyn, New York

DRAWN BY:	WF
CHECKED BY:	KK
DATE:	7-23-2008
SCALE:	1" = 20'

PROJECT #	06-028
PLATE #	04

Scale in feet
10 5 0 10 20 30



Legend

Monitoring Well

Note:
Locations of former building and pump islands are based upon survey prepared by Bartlett, Luolam & Dill

PROJECT # 06-028

PLATE # 05

Scale in feet: 10 5 0 10 20 30

TITLE: Sample Acquisition Plan

281 4th Avenue
Brooklyn, New York

DRAWN BY: WF
CHECKED BY: KK
DATE: 7-23-2008
SCALE: 1" = 20'

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Impact Environmental

Semi-Annual Monitoring Report

Former Odessa Oil Corp Service Station
281 4th Avenue
Brooklyn, New York

Tables

Table 1: June 19, 2006 Remedial Investigation Soil Sampling Results
281 4th Avenue, Brooklyn, New York

Parameter Name	NYSDEC CP-51 Soil Cleanup Objectives	MW-1 [11'-12']	MW-2 [13'-14']	MW-3 [13'-14']	MW-4 [12'-13']	SP-1 [11'-12']	SP-1 [8'-10']	SP-2 [8'-10']	SP-3 [12'-13']
Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
1,2,4-Trimethylbenzene	3,600	1,242	1,957	74	ND	ND	ND	ND	662
1,3,5-Trimethylbenzene	8,400	648	718	31	ND	13,716	ND	76	ND
Benzene	60	ND	ND	8	ND	ND	ND	ND	ND
Ethylbenzene	1,000	332	171	15	ND	3,594	ND	164	363
Isopropylbenzene	2,300	148	429	15	ND	4,300	ND	989	624
Methyl-tert-butyl-ether	930	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	12,000	130	436	11	ND	4,927	ND	73	313
n-Butylbenzene	12,000	ND	ND	ND	18	ND	ND	1,165	ND
n-Propylbenzene	3,900	359	1,258	46	13	10,271	6	2,934	859
p-Isopropyltoluene	10,000	ND	54	ND	ND	1,239	ND	233	ND
Toluene	700	ND	ND	8	ND	ND	ND	ND	ND
Total Xylenes	260	493	384	39	ND	5,626	ND	ND	ND
sec-Butylbenzene	11,000	59	203	7	8	2,698	6	717	ND
tert-Butylbenzene	5,900	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	20,000	42	ND	ND	ND	260	111	308	47
Anthracene	100,000	ND	ND	ND	ND	113	66	231	49
Benzo-a-Pyrene	1,000	116	ND	128	ND	140	135	531	211
Benzo-b-Fluoroanthene	1,000	174	ND	161	ND	159	134	608	270
Benzo-g,h,i-Perylene	100,000	93	ND	106	ND	80	67	246	144
Benzo-k-Fluoroanthene	800	75	ND	70	ND	59	62	259	97
Chrysene	1,000	128	ND	131	ND	136	117	583	191
Dibenzo-a,h-Anthracene	330	ND	ND	ND	ND	ND	ND	82	40
Fluoranthene	50,000	129	56	178	ND	402	227	1,226	252
Fluorene	50,000	ND	ND	ND	ND	210	90	272	48
Indeno(1,2,3-c,d)Pyrene	3,200	89	ND	108	ND	74	64	269	149
Naphthalene	13,000	1,410	58	197	ND	958	72	136	853
Phenanthrene	50,000	64	54	112	ND	609	244	1,388	238
Pyrene	50,000	121	55	174	ND	337	211	1,082	238

Table 2: June 22, 2006 Remedial Investigation Groundwater Sampling Results
281 4th Avenue, Brooklyn, New York

Parameter Name	NYSDEC Part 703 Class GA Groundwater Quality Standards	Unit	MW-1	MW-2	MW-3	MW-4	MW-5
1,2,4-Trimethylbenzene	5	µg/L	966	963	2,009	12	379
1,3,5-Trimethylbenzene	5	µg/L	366	278	539	ND	121
Benzene	1	µg/L	184	12	29	10	724
Ethylbenzene	5	µg/L	393	109	500	ND	28
Isopropylbenzene	5	µg/L	104	139	107	ND	49
Methyl-tert-butyl-ether	10	µg/L	29	ND	ND	ND	25
Naphthalene	10	µg/L	35	90	156	ND	23
n-Butylbenzene	5	µg/L	ND	ND	ND	ND	ND
n-Propylbenzene	5	µg/L	194	457	320	ND	109
p-Isopropyltoluene	5	µg/L	ND	ND	ND	ND	5
Toluene	5	µg/L	72	ND	53	70	ND
Total Xylenes	15	µg/L	1,026	273	1,964	11	62
sec-Butylbenzene	5	µg/L	ND	32	ND	ND	17
tert-Butylbenzene	5	µg/L	ND	ND	ND	ND	ND
Acenaphthene	20	µg/L	ND	ND	7	ND	ND
Anthracene	50	µg/L	ND	ND	ND	ND	ND
Benzo-a-Pyrene	MDL	µg/L	ND	ND	ND	ND	ND
Benzo-b-Fluoroanthene	0.002	µg/L	ND	ND	ND	ND	ND
Benzo-g,h,i-Perylene	NA	µg/L	ND	ND	ND	ND	ND
Benzo-k-Fluoroanthene	0.002	µg/L	ND	ND	ND	ND	ND
Chrysene	0.002	µg/L	ND	ND	ND	ND	ND
Dibenzo-a,h-Anthracene	NA	µg/L	ND	ND	ND	ND	ND
Fluoranthene	50	µg/L	ND	ND	ND	ND	ND
Fluorene	50	µg/L	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)Pyrene	0.002	µg/L	ND	ND	ND	ND	ND
Naphthalene	10	µg/L	31	83	184	ND	22
Phenanthrene	50	µg/L	ND	ND	ND	ND	ND
Pyrene	50	µg/L	ND	ND	ND	ND	ND

Table 3: June 20, 2013 Remedial Investigation Soil Sampling Results
281 4th Avenue, Brooklyn, New York

Sample ID	SB-01		**NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (ppb)**
Sample Date	6/20/2013		
Sample Time	11:00		
Laboratory ID	L1311474-01		
Analyte (µg/kg)			
Benzene	**2.8**		60
Toluene	**1.3**	J	700
Ethylbenzene	**0.60**	J	1,000
Methyl tert-Butyl Ether	**0.77**	J	930
p/m-Xylene	**1.5**	J	260
o-Xylene	**0.45**	J	260
n-Butylbenzene	ND		12,000
sec-Butylbenzene	**0.62**	J	11,000
tert-Butylbenzene	ND		5,900
Isopropylbenzene	**0.40**	J	2,300
p-Isopropyltoluene	**0.29**	J	10,000
Naphthalene	ND		12,000
n-Propylbenzene	**0.47**	J	3,900
1,3,5-Trimethylbenzene	**0.36**	J	8,400
1,2,4-Trimethylbenzene	**1.1**	J	3,600

ND - Non-Detect

J - Laboratory estimated value

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Table 4: Groundwater Survey Results
281 4th Avenue, Brooklyn, New York

MW ID	MW Case Elevation (ft.)	DTW (6/24/2013)	WT Elevation (6/24/2013)
MW-1	20.00	12.39	7.61
MW-2	19.18	11.40	7.78
MW-3	21.87	13.73	8.14
MW-4	19.42	11.11	8.31
MW-5	19.51	11.48	8.03
MW-6	Not Surveyed	12.29	-

Note: An arbitrary case elevation of 20.00 ft. above mean sea level was assigned for MW-1. Said number was obtained from the USGS Topographic Map for Brooklyn.

Table 5: Groundwater Analytical Results
Volatile Organic Compounds - USEPA Method 8260B
281 4th Avenue, Brooklyn, New York

Sample ID	Date	Depth to water	MTBE	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Isopropylbenzene	p-Isopropyltoluene	n-Propylbenzene	Ethylbenzene	Naphthalene	Toluene	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	Total Xylenes	Total VOCs
Unit			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
NYSDEC Ambient Water Quality Standards & Guidance Values (ug/l)			10	1	5	5	5	5	5	5	5	10	5	5	5	15	
MW-1	6/21/2006	14.62	**29**	**184**	ND	ND	ND	**104**	ND	**194**	**393**	**35**	**72**	**966**	**366**	**1,026**	3,369
	10/5/2007	12.96	**71.3**	**207**	ND	ND	ND	ND	ND	ND	ND	ND	**9.02**	ND	ND	**16.42**	304
	12/20/2007	13.62	**124**	**134**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**13.1**	**9.2**	**70**	350
	3/25/2008	13.09	**71.8**	**156**	ND	ND	ND	ND	ND	ND	**9.84**	ND	ND	**27.6**	**21.9**	**91**	378
	6/27/2008	13.14	**16.8**	**133**	**9.48**	ND	ND	ND	ND	ND	ND	ND	**15.8**	**104**	**31.9**	**218.2**	529
	10/30/2008	11.08	**24.9**	**128**	ND	ND	ND	ND	ND	ND	ND	ND	**8.35**	**23.1**	**38.3**	**56**	279
	12/31/2008	12.55	**26.2**	**162**	ND	**11.8**	**26.8**	**83**	ND	**88.1**	**117**	ND	**23.3**	**174**	**51.7**	**250**	1,014
	6/1/2009	13.28	**35.5**	**12.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	48
	8/31/2009	14.71	**24.5**	**194**	**23.3**	**12.1**	ND	**80.2**	**5.26**	**86.9**	**114**	**12.5**	**20**	**142**	**95.1**	**160**	970
	2/24/2010	12.59	**21.3**	**97.1**	**9.61**	**12.8**	ND	**69.1**	ND	**62.1**	**14.1**	ND	**7.15**	ND	**7.21**	**20.3**	321
	5/26/2010	11.89	**19**	**140**	**12.5**	**11.8**	ND	**63**	ND	**63.5**	**38**	8.03	**10.1**	**40**	**22.1**	**38.7**	467
	10/12/2010	11.14	**21**	**145**	**19**	**10.9**	ND	**56**	ND	**56**	**38**	9.2	**13.6**	**40**	**52**	**67**	528
	2/15/2011	12.89	**27**	**140**	**9.8**	**9.3**	ND	**56**	ND	**46**	**13**	ND	**8**	ND	**9.6**	**21**	340
	9/14/2011	12.47	3.25	**11.5**	ND	ND	ND	1.87	ND	ND	ND	ND	ND	ND	ND	ND	17
	4/6/2012	12.71	**30**	**140**	4.6 J	**7.6**	ND	**46**	ND	**40**	**11**	2.3 J	**8.5**	5.0 J	4.1 J	**31.8**	315
	9/12/2012	11.98	**12**	**77**	**8.2**	**8.5**	ND	**42**	ND	**44**	**27**	3.0 J	**5.3**	**15**	**12**	**12.6**	267
	6/24/2013	12.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-2	6/21/2006	10.75	ND	**12**	ND	**32**	ND	**139**	ND	**457**	**109**	**90**	ND	**963**	**278**	**273**	2,353
	10/5/2007	12.51	ND	ND	ND	**10**	ND	**37.6**	ND	**66.4**	**47.9**	**32.1**	ND	**159**	**66.6**	**41.1**	461
	12/20/2007	11.95	ND	ND	ND	**12.5**	ND	**42.7**	ND	**118**	**32.1**	**31.2**	ND	**113**	**29.5**	**29.7**	409
	3/25/2008	12.75	ND	ND	**21.1**	ND	ND	**29**	ND	**62.1**	**15.3**	**17.3**	ND	**142**	**16.8**	6.41	310
	6/27/2008	12.77	ND	ND	**44.8**	**29.4**	ND	**82.5**	ND	**228**	**21.8**	**10.1**	ND	**195**	**19.1**	ND	631
	10/30/2008	6.88	ND	ND	**76.8**	**43**	ND	**159**	ND	**489**	**45.6**	ND	<64.3	**325**	**53.9**	**22.7**	1,215
	12/31/2008	11.29	ND	ND	**43**	**25**	ND	**95.5**	ND	**277**	**25.4**	ND	ND	**148**	ND	ND	614
	6/1/2009	12.27	ND	**6.55**	**35**	**22**	ND	**91**	ND	**250**	**47**	**32**	ND	**90**	ND	12	585.55
	8/31/2009	14.78	ND	ND	ND	ND	ND	**11.4**	ND	ND	**16.1**	**22.9**	ND	**78**	**16.8**	13.2	158.40
	2/24/2010	12.03	ND	ND	**20.9**	**11**	ND	**22.1**	ND	**71.9**	**7.03**	**5.21**	ND	**46**	**14.4**	ND	198.54
	5/26/2010	11.47	ND	ND	**52.6**	**31.3**	ND	**111**	**5.04**	**370**	**50.3**	**31.8**	ND	**186**	**14.1**	11.4	863.54
	10/12/2010	9.63	ND	ND	**60**	**24**	ND	**79**	**5.1**	**270**	**26**	**25**	ND	**164**	**57**	**16**	726.10
	2/15/2011	11.59	ND	ND	**25**	**11**	ND	**40**	ND	**110**	**8.7**	6.5	ND	**68**	**7.8**	ND	277.00
	9/14/2011	10.95	ND	ND	1.54	1.57	ND	2.81	ND	**5.82**	ND	ND	ND	ND	ND	ND	11.74
	4/6/2012	12.84	ND	1.6	4	3.2	ND	**16**	ND	**46**	6	3.7	ND	**23**	1.7 J	5.8	109.30
	9/12/2012	11.04	ND	0.47 J	**42**	**30**	ND	**80**	3.5	**140**	**12**	3.7	0.96 J	**84**	2.0 J	4.7	403.33
	6/24/2013	11.40	ND	ND	1.6 J	1.3 J	ND	1.8 J	ND	**5.7**	ND	ND	ND	1.1 J	ND	ND	11.50
MW-3	6/21/2006	11.47	ND	**29**	ND	ND	ND	**107**	ND	**320**	**500**	**156**	**53**	**2,009**	**539**	**1,964**	5677.00
	10/5/2007	13.02	**50.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.50
	12/20/2007	12.98	**84.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	84.30
	3/25/2008	12.59	**32.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32.30
	6/27/2008	12.79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/30/2008	11.82	**22.8**	**41.3**	ND	ND	ND	**5.86**	ND	**5.74**	**14**	7.93	ND	**32.7**	ND	**27.2**	157.53
	12/31/2008	11.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**13.3**	**12.9**	13	39.20
	6/1/2009	12.83	**17.3**	**54.1**	ND	ND	ND	**17.9**	ND	**30.1**	**67.6**	ND	**14**	**11.7**	**7.41**	**96.9**	317.01
	8/31/2009	12.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/24/2010	13.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/26/2010	11.97	5.34	**5.24**	ND	ND	ND	ND	ND	ND	ND	5.37	ND	ND	ND	ND	15.95
	10/12/2010	12.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/15/2011	12.43	**12**	**35**	ND	ND	ND	**19**	ND	**35**	ND	ND	ND	ND	ND	ND	101.00
	9/14/2011	12.41	2.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.85
	4/6/2012	13.32	1.0 J	3.4	ND	ND	ND	2.4 J	ND	3.8	4.4	1.8 J	ND	3.8	1.0 J	**21.3**	36.70
	9/12/2012	13.48	2.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.10
	6/24/2013	13.73	2.4 J	0.19 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.59

Table 5: Groundwater Analytical Results
Volatile Organic Compounds - USEPA Method 8260B
281 4th Avenue, Brooklyn, New York

Sample ID	Date	Depth to water	MTBE	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Isopropylbenzene	p-Isopropyltoluene	n-Propylbenzene	Ethylbenzene	Naphthalene	Toluene	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	Total Xylenes	Total VOCs
Unit			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
NYSDEC Ambient Water Quality Standards & Guidance Values (ug/l)			10	1	5	5	5	5	5	5	5	10	5	5	5	15	
MW-4	6/21/2006	8.65	ND	**10**	ND	ND	ND	ND	ND	ND	ND	ND	**70**	**12**	ND	**11**	103
	10/5/2007	11.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/20/2007	9.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/25/2008	9.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/27/2008	9.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/30/2008	6.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/31/2008	8.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/1/2009	10.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/31/2009	15.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/26/2010	9.30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/12/2012	10.76	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/24/2013	11.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-5	6/21/2006	8.84	**25**	**724**	ND	**17**	ND	**49**	5	**109**	**28**	**23**	ND	**379**	**121**	**62**	1,542.00
	10/5/2007	11.13	**118**	**92**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	217.00
	12/20/2007	11.32	**191**	**68.1**	ND	ND	ND	**12.4**	ND	**6.96**	ND	ND	ND	ND	ND	ND	278.46
	3/25/2008	10.15	**70**	**76.7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	146.70
	6/27/2008	9.99	**16.1**	**55**	ND	ND	ND	**28.9**	ND	**18.5**	ND	ND	ND	**13.9**	**5.1**	8.03	145.53
	10/30/2008	9.68	**34.4**	**89**	ND	20.5	ND	**45.7**	ND	**63.1**	ND	ND	ND	**300**	**112**	**15.6**	680.30
	12/31/2008	9.36	**13.1**	ND	**20.9**	**8.06**	ND	**10.7**	ND	**19.6**	ND	ND	ND	**39.7**	**14.6**	ND	126.66
	6/1/2009	10.68	**12.2**	**84.8**	ND	**8.78**	ND	ND	ND	**33**	ND	ND	ND	ND	ND	**15.5**	154.28
	8/31/2009	14.68	9.37	**17**	ND	ND	ND	**7.4**	ND	**6.3**	ND	ND	ND	ND	ND	ND	40.07
	2/24/2010	10.53	**18.3**	**67**	ND	**9.26**	ND	**38.2**	ND	**25.1**	ND	ND	ND	ND	ND	ND	157.86
	5/26/2010	9.97	9.63	**44.3**	**11.8**	**9.25**	ND	**31.4**	ND	**32.2**	ND	5.4	ND	**16.4**	**8.27**	6.32	174.97
	10/12/2010	8.57	**24**	**46.5**	ND	**5.6**	ND	**23**	ND	**17.8**	ND	ND	ND	ND	ND	5.6	122.50
	2/15/2011	10.41	**22**	**34**	ND	**6.1**	ND	**28**	ND	**19**	ND	ND	ND	ND	ND	5.8	114.90
	9/14/2011	11.02	**14.8**	**26.9**	ND	ND	ND	**11.8**	ND	ND	ND	ND	ND	ND	ND	ND	53.50
	4/6/2012	11.39	**29**	**42**	0.88 J	**5.8**	0.79 J	**29**	0.78 J	**19**	1.0 J	0.77 J	2.9	1.3 J	1.2 J	11.1	138.80
	9/12/2012	11.10	**19**	**40**	2.2 J	**7.9**	0.80 J	**29**	ND	**23**	ND	ND	**8.5**	1.1 J	1.2 J	10	142.70
	6/24/2013	11.48	5.8	**2.1**	ND	ND	ND	2.3 J	ND	1.9 J	ND	ND	ND	ND	ND	ND	12.10
MW-6	12/5/2006	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/2007	12.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/25/2008	12.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/27/2008	12.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/30/2008	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/31/2008	12.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/1/2009	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/31/2009	12.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/24/2010	11.97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/26/2010	11.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/24/2013	12.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Impact Environmental

Semi-Annual Monitoring Report

Former Odessa Oil Corp Service Station
281 4th Avenue
Brooklyn, New York

Appendices

Impact Environmental

Semi-Annual Monitoring Report

Former Odessa Oil Corp Service Station
281 4th Avenue
Brooklyn, New York

Appendix A
Historic Environmental Documents

Tyree
Environmental
Technologies

TANK REMOVAL AND GROUNDWATER ASSESSMENT

CLOSED SERVICE STATION
281 FOURTH AVENUE
BROOKLYN, NEW YORK

NOVEMBER 1990

PREPARED BY:

TYREE BROS. ENVIRONMENTAL SERVICES, INC.
208 ROUTE 109
FARMINGDALE, NEW YORK 11735
(516) 249 - 3150

(516) 249-3150 FAX (516) 249-3281

TYREE BROS.
ENVIRONMENTAL SERVICES, INC.

208 ROUTE 109 • FARMINGDALE, NEW YORK 11735

November 8, 1990

Spartan Petroleum
1158 Broadway
Hewlett, New York 11557

Attn: Mr. Hank Alpert

Re: Closed Service Station
281 4th Avenue
Brooklyn, New York

Dear Mr. Alpert:

Gasoline Tanks' Removal

On September 18, 1990, Tyree Brothers Environmental Services Inc. (TBES) began removing underground gasoline storage tanks at the above-referenced site. A hydrogeologist from Tyree Brothers Environmental Services was present on site to screen soil samples using headspace analysis with an HNU Model PI 101 photoionization detector, to supervise the stockpiling of contaminated soil, to obtain soil samples from the stockpile of contaminated soil and from the bottom of the gasoline tank excavation for analysis by a NYS certified laboratory, and to visually inspect and photograph the tanks.

The tank field was excavated, and twelve (12) 550 gallon steel tanks were removed. Except for slight rusting on gasoline storage tanks #2, #9, #10 and #11 (see Figure 1 - Site Map), none of the tanks were rusting or corroded, and all of the tanks appeared intact upon visual inspection. Sludge from the tanks was poured into six (6) fifty-five (55) gallon DOT drums for disposal.

Organic vapor concentrations (OVA) were measured with an HNU meter using headspace analysis. It should be noted that the HNU meter is used to measure organic vapors as they evolve from the soil samples. The readings are not exact determinations of true volatile content of the samples, but instead provide qualitative indications of the degree of volatile organic contamination.

Soil from the excavation generally consisted of a brown, silty, fine to medium sand with pebbles to a tan, fine to medium sand. Soil samples from the gasoline tank excavation had OVA readings ranging from 22 ppm to 540 ppm (see Table 1) using headspace analysis. Except for the soil sample with the 22 ppm reading, all of the soil samples from the excavation had a gasoline odor. Soil samples from the sidewalls of the gasoline tank excavation had OVA readings ranging from 240 ppm to 460 ppm. All of the soil samples from the sidewalls had a gasoline odor.

Two (2) representative grab samples (see Figure 1, locations A and B) were taken from the bottom of the gasoline tank excavation for analysis by Environmental Testing Laboratories (ETL). These samples were analyzed for benzene, toluene, ethylbenzene, xylenes and dichlorobenzenes (BTEX) and total petroleum hydrocarbons (TPH).

Analytical results of the soil samples taken from locations A and B revealed total BTEX concentrations of 238,858 ppb and 131,718 ppb, respectively. Analytical results from locations A and B also revealed TPH concentrations of 1,545 ppm and 68 ppm, respectively.

A composite soil sample was taken from the stockpiled soil on September 19, 1990. The soil was stockpiled on and covered with reinforced polyethylene. The composite soil sample was analyzed for BTEX, TPH, EP Toxicity for Metals, corrosivity and reactivity for hazardous waste characterization and disposal (see Site Map - location G).

Analytical results of the soil sample from location G revealed a total BTEX concentration of 94 to 99 ppb and a TPH concentration of 6,868 ppm. Concentrations per the EP toxicity analysis, ignitability, corrosivity, and

reactivity analyses identified the stockpiled soil to be non-hazardous per EPA characteristics.

Fuel Oil Tank Removal

The fuel oil tank was excavated on September 19, 1990. A 550 gallon steel tank was removed. Upon visual inspection it was noted that the tank was rusted, corroded and pitted, but appeared intact.

A soil sample from the bottom of the fuel oil tank excavation had an OVA reading of 350 ppm when measured with the HNU photoionization detector using headspace analysis. No odors were observed in the soil sample from the bottom of this excavation.

One (1) soil sample (see Figure 1, location C) was taken from the bottom of the fuel oil tank excavation for analysis by ETL. This sample was analyzed for BTEX and TPH. Analysis of the soil sample from location C revealed a BTEX concentration of 255 ppb and a TPH concentration of 139 ppm.

Waste Oil Tank Removal

The waste oil tank was excavated on September 19, 1990. A 550 gallon steel tank was removed. Upon visual inspection it was noted that the tank was rusting, corroded and pitted, but no holes were found, and the tank appeared intact.

A soil sample from the bottom of the waste oil tank excavation had an OVA reading of 380 ppm when measured with the HNU photoionization detector using headspace analysis. A petroleum odor was observed in the soil sample from the bottom of this excavation.

One (1) soil sample (see Figure 1, location D) was taken from the bottom of the waste oil tank excavation for analysis by ETL. This sample was analyzed for BTEX, TPH, halogenated organics (EPA 601) and EP Toxicity for Metals.

Analysis of the soil sample from location D revealed a BTEX concentration of 109 to 114 ppb and a TPH concentration of 153 ppm. No halogenated organics were detected in the soil sample from location D. Analytical results of the soil sample revealed EP Toxicity for arsenic at .014 ppm, barium at .073 ppm, cadmium at less than 0.020 ppm, chromium at less than .050 ppm, lead at 1.0 ppm, mercury at .180 ppm, selenium at less than .008 ppm and silver at less than 0.32 ppm.

All metal concentrations are less than the maximum allowable concentrations established by the US Environmental Protection Agency. The soil from the bottom of the waste oil tank excavation did not exhibit hazardous waste characteristics. Analytical reports for all samples and photographs of the storage tanks are attached.

Pump Islands' Removal

The two (2) pump islands were removed on September 19, 1990. A soil sample was taken from under each of the two (2) pump island locations and brought to ETL for analysis (see Site Map, locations E and F). The two (2) soil samples were analyzed for BTEX and TPH.

Analysis of the soil sample from under pump island #1 (see Site Map, location E) revealed a total BTEX concentration of 1,210 ppb and a TPH concentration of 123 ppm. Analysis of the soil sample from under pump island #2 (see Site Map, location F) revealed a total BTEX concentration of 29,489 ppb and a TPH concentration of 1,129 ppm.

Groundwater Assessment

On October 13, 1990, Tyree Brothers Environmental Services, Inc. drilled three (3) soil borings at the subject site (see Site Map in the Appendix for soil boring

locations). Borings W-2 and W-3 were drilled to a depth of fifteen (15) feet; boring W-1 was drilled to a depth of twenty (20) feet. The borings and wells were completed using a Central Mining Equipment (CME-75) hollow stem auger drilling rig.

Soil conditions encountered during drilling included a gray clay to a black, medium sand. A gasoline odor was observed while drilling all three (3) borings. A detailed geological description is provided in the boring logs which are included in the Appendix.

A groundwater monitoring well was installed at each of the three (3) boring locations. Well W-2 was installed to a depth of eighteen and one-half (18.5) feet. Wells W-2 and W-3 were installed to a depth of fifteen (15) feet. The depth to water in wells W-1, W-2 and W-3 were 11.69 feet, 11.44 feet, and 11.17 feet, respectively. The groundwater flow in the area of the subject site is generally in a west-southwesterly direction as obtained from regional groundwater contour maps prepared by the US Geological Survey.

On October 22, 1990, the three (3) monitoring wells were air developed. On the following day, all three (3) monitoring wells were sampled with dedicated bailers in order to avoid outside contamination. Before the sample was taken, three (3) to five (5) well casing volumes were removed from each of the wells in accordance with EPA protocol. No floating product was present when the wells were sampled. The groundwater samples from wells W-1, W-2, and W-3 were brought to ETL for analysis by EPA method 602 (BTEX), EPA 418.1 (TPH) and EPA 601 (halogenated organics).

Analytical results of the groundwater sample from well W-1 revealed a total concentration of aromatic hydrocarbons (BTEX) of 28,262 ppb and a TPH concentration of 17 ppm. The halogenated organics, chlorobenzene and 1,1-dichloroethene, were also detected at 3.6 ppb and 17 ppb, respectively.

Analytical results of the groundwater sample from well W-2 revealed a total concentration of aromatic hydrocarbons of 18,713 ppb and a TPH concentration of 54 ppm. The halogenated organics, dibromochloromethane and 1,1-dichloroethene, were also detected at 3.1 ppb and 13 ppb, respectively.

Analytical results of the groundwater sample from well W-3 revealed a total concentration of aromatic hydrocarbons of 27,588.5 ppb and a TPH concentration of less than one (1) ppm. The halogenated organic, 1,1-dichloroethene, was also detected at 19 ppb.

The laboratory also detected a high concentration of MTBE in all three (3) wells during analysis of the groundwater samples.

The New York State Department of Environmental Conservation does not set petroleum standards of contamination for soil. New York State groundwater standards are as follows:

Benzene	Non-detectable
Toluene	5 ppb
Ethylbenzene	5 ppb
Chlorobenzene	5 ppb
Xylenes	5 ppb
Dichlorobenzenes	5 ppb
Total Hydrocarbons	100 ppb

The concentrations of contaminants in the groundwater samples from wells W-2 and W-3 exceeded the state's groundwater standards for benzene, toluene, ethyl/chlorobenzene, xylenes and for a total hydrocarbon concentration. The laboratory results for the three (3) water samples are summarized in Table 3. The analytical reports are also included in the Appendix.

Conclusions

1. Gasoline odors were detected in the soil during the excavation of tanks and during the drilling of three (3) wells.

2. The depth to groundwater ranged from 11.17 feet to 11.69 feet.

3. Groundwater flow was determined to be in a west-southwesterly direction.

4. Soil samples from the bottom of the gasoline, fuel oil, and waste oil tanks, and from under the two (2) pump islands all exceeded 100 ppm when analyzed for total aromatic hydrocarbons and/or total petroleum hydrocarbons. Analytical results identified the stockpiled soil to be non-hazardous per EPA characteristics.

5. The groundwater samples from all three (3) wells exceeded the New York State groundwater standards for benzene, toluene, ethyl/chlorobenzene, xylenes, and total hydrocarbons. A high concentration of MTBE was also detected by the laboratory during analysis.

If you have questions regarding any of the enclosed, please feel free to contact this office.

Sincerely,

Dawn Medaglia for

John Greene
Hydrogeologist/Project Manager

JEG/bb
Enclosure

APPENDIX

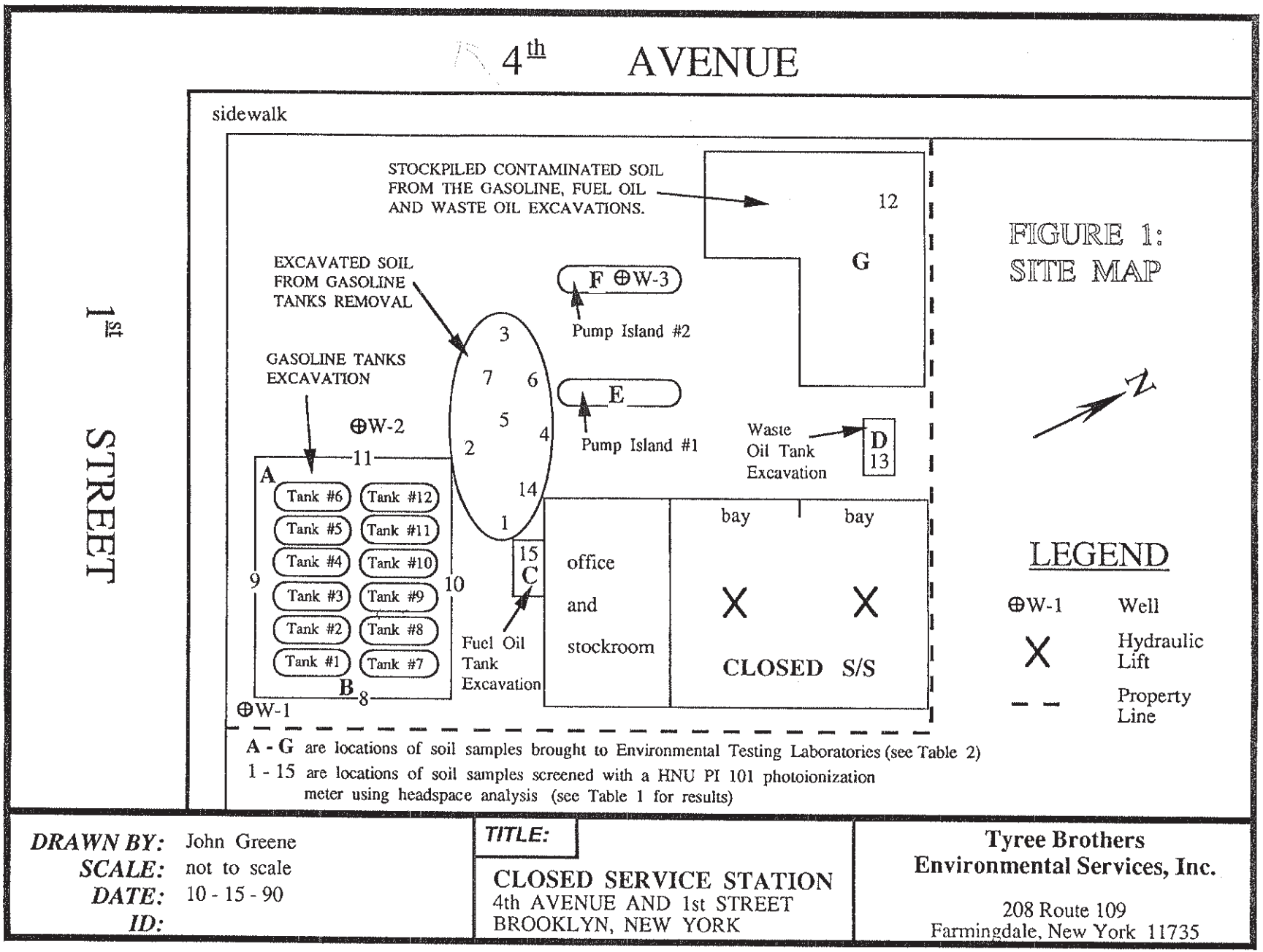
4th AVENUE
1st STREET
sidewalk
STOCKPILED CONTAMINATED SOIL FROM THE GASOLINE, FUEL OIL AND WASTE OIL EXCAVATIONS.
EXCAVATED SOIL FROM GASOLINE TANKS REMOVAL
GASOLINE TANKS EXCAVATION
⊕W-2
⊕W-1
F ⊕W-3
Pump Island #2
E
Pump Island #1
Waste Oil Tank Excavation
D 13
12
G
3
7
6
5
4
2
14
1
11
A
Tank #6
Tank #5
Tank #4
Tank #3
Tank #2
Tank #1
Tank #12
Tank #11
Tank #10
Tank #9
Tank #8
Tank #7
B
8
9
10
15
C
Fuel Oil Tank Excavation
office and stockroom
bay
bay
CLOSED S/S
A - G are locations of soil samples brought to Environmental Testing Laboratories (see Table 2)
1 - 15 are locations of soil samples screened with a HNU PI 101 photoionization meter using headspace analysis (see Table 1 for results)
FIGURE 1: SITE MAP
LEGEND
⊕W-1 Well
X Hydraulic Lift
Property Line
DRAWN BY: John Greene
SCALE: not to scale
DATE: 10 - 15 - 90
ID:
TITLE:
CLOSED SERVICE STATION
4th AVENUE AND 1st STREET
BROOKLYN, NEW YORK
Tyree Brothers
Environmental Services, Inc.
208 Route 109
Farmingdale, New York 11735

TABLE 1: Results of soil samples screened with an HNU meter using head space analysis

SITE: Closed Service Station
Fourth avenue and 1st Street
Brooklyn, New York

SAMPLE LOCATIONS	ORGANIC VAPOR CONCENTRATION (PPM)	COMMENTS	SOIL DESCRIPTION
1 (9-18-90)	22	no odor	Tan fine-medium sand
2	270	gasoline odor	
3	170	gasoline odor	
4	190	gasoline odor	
5	230	gasoline odor	
6	540	gasoline odor	Brown silty fine-medium
7	360	gasoline odor	sand
8	320	gasoline odor	Tan fine-medium sand
9	460	gasoline odor	
10	240	gasoline odor	
11	310	gasoline odor	Brown silty fine-med. sand
12 (9-19-90)	390	petroleum odor	Brown sandy silt
13	380	petroleum odor	with pebbles
14	350	petroleum odor	
15	350	petroleum odor	

TABLE 2: SUMMARY OF ANALYTICAL RESULTS

SITE: **Closed Service Station**
4th Avenue and 1st Street
Brooklyn, N. Y.

SAMPLING DATE: September 18, 1990

SAMPLING TYPES: SOIL SAMPLES

PARAMETER	Bottom of Gasoline Tank Excavation- **A**	Bottom of Gasoline Tank Excavation- **B**	Bottom of Fuel Oil Tank Excavation- **C**	Bottom of [1, 2] Waste Oil Tank Excavation- **D**
Benzene (ppb)	283	ND	ND	ND
Toluene (ppb)	20,963	7,523	146	109
Ethyl/Chlorobenzene (ppb)	6,709	2,646	ND	ND
Xylenes (ppb)	210,903	121,549	109	<5
Dichlorobenzenes (ppb)	ND	ND	ND	ND
TOTAL AROMATIC HYDROCARBONS (PPB) (EPA 602)	**238,858**	**131,718**	**255**	**109 - 114**
TOTAL PETROLEUM HYDROCARBONS (PPM) (EPA 418.1)	**1,545**	**68**	**139**	**153**

ND = NOT DETECTED

1 - No halogenated organics were detectd in the soil sample from the bottom of the waste oil excavation (**D**).

2 - When analyzed for EP toxicity for metals, the soil sample from the bottom of the waste oil excavation (**D**) revealed arsenic at .014 ppm, barium at .073 ppm, lead at 1.0 ppm, mercury at .18 ppm and selenium at .008 ppm.

TABLE 2: SUMMARY OF ANALYTICAL RESULTS
(CONTINUED)

SITE: **Closed Service Station**
4th Avenue and 1st Street
Brooklyn, N. Y.

SAMPLING DATE: September 18, 1990

SAMPLING TYPES: SOIL SAMPLES

PARAMETER	Under Pump Island #1 - **E**	Under Pump Island #2 - **F**	Composite [3] of Stockpiled Soil - **G**
Benzene (ppb)	ND	ND	ND
Toluene (ppb)	130	786	94
Ethyl/Chlorobenzene (ppb)	ND	ND	ND
Xylenes (ppb)	1,080	28,703	<5
Dichlorobenzenes (ppb)	ND	ND	ND
TOTAL AROMATIC HYDROCARBONS (PPB) (EPA 602)	**1,210**	**29,489**	**94 - 99**
TOTAL PETROLEUM HYDROCARBONS (PPM) (EPA 418.1)	**123**	**1,129**	**6,868**

ND = NOT DETECTED

3 - When analyzed for EP toxicity for metals, Ignitability, Corrosivity and Reactivity, the composite of the stockpiled soil (G) confirmed the material to be non-hazardous.

TABLE 3: SUMMARY OF ANALYTICAL RESULTS

SITE: **Closed Service Station**
4th Avenue and 1st Street
Brooklyn, New York

SAMPLING DATE: October 23, 1990

SAMPLING TYPE: GROUNDWATER SAMPLES

PARAMETER	WELLS		
	W-1	W-2	W-3
Benzene (ppb)	4,340	8,884	6,084
Toluene (ppb)	8,543	2,120	6,762
Ethyl/Chlorobenzene (ppb)	3,268	2,829	3,097
Xylenes (ppb)	12,111	4,880	11,644
Dichlorobenzenes (ppb)	<1	<1	1.5
TOTAL AROMATIC HYDROCARBONS (PPB) (EPA 602)	**28,262-28,263**	**18,713-18,714**	**27,588.5**
Chlorobenzene (ppb)	3.6	ND	ND
Dibromochloromethane (ppb)	ND	3.1	ND
1,1-dichloroethene (ppb)	17	13	19
TOTAL HALOGENATED ORGANICS (PPB) (EPA 601)	**20.6**	**16.1**	**19**
TOTAL PETROLEUM HYDROCARBONS (PPM) (EPA 418.1)	**17**	**54**	**<1**

ND = Not Detected

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA 602 • SW-846 8020

10/05/90

Review by: DS

Project Location
Closed S/S
4th Ave. & 1st St.
Brooklyn, NY
Sampled by: John Greene

Dates
Collected: 09/18/90
Received: 09/19/90
Analyzed: 10/02/90

Sample ID	Location	Analyte	( ) MDL	Concentration
A627601.....	Bottom of Tank Exc.-Loc.A	Benzene	0.2	283 ppb
Sample phase: Grab		Toluene	0.2	20963 ppb
Remarks:		Ethyl/Chlorobenzene	0.2	6709 ppb
		o,m,p-Xylenes	0.2	210903 ppb
		Dichlorobenzenes	0.2	ND ppb
		EPA 602 • SW-846 8020		238858 ppb
A627602.....	Bottom of Tank Exc.-Loc.B	Benzene	0.2	ND ppb
Sample phase: Grab		Toluene	0.2	7523 ppb
Remarks:		Ethyl/Chlorobenzene	0.2	2646 ppb
		o,m,p-Xylenes	0.2	121549 ppb
		Dichlorobenzenes	0.2	ND ppb
		EPA 602 • SW-846 8020		131718 ppb
A627603.....	Bottom of F.O. Exc.-Loc.C	Benzene	0.2	ND ppb
Sample phase: Grab		Toluene	0.2	146 ppb
Remarks:		Ethyl/Chlorobenzene	0.2	ND ppb
		o,m,p-Xylenes	0.2	109 ppb
		Dichlorobenzenes	0.2	ND ppb
		EPA 602 • SW-846 8020		255 ppb

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ANALYSIS REPORT - EPA 602 • SW-846 8020

10/05/90

Review by: DS

Project Location
Closed S/S
4th Ave. & 1st St.
Brooklyn, NY
Sampled by: John Greene

Dates
Collected: 09/18/90
Received: 09/19/90
Analyzed: 10/02/90

Sample ID	Location	Analyte	( ) MDL	Concentration
A627604.....	Bottom of W.O. Exc.-Loc.D	Benzene	0.2	ND ppb
Sample phase:	Grab	Toluene	0.2	109 ppb
Remarks:		Ethyl/Chlorobenzene	0.2	ND ppb
		o,m,p-Xylenes	0.2	<5 ppb
		Dichlorobenzenes	0.2	ND ppb
		EPA 602 • SW-846 8020		109 - 114 ppb
A627605.....	Under Pump Island#1 Loc.E	Benzene	0.2	ND ppb
Sample phase:	Grab	Toluene	0.2	130 ppb
Remarks:		Ethyl/Chlorobenzene	0.2	ND ppb
		o,m,p-Xylenes	0.2	1080 ppb
		Dichlorobenzenes	0.2	ND ppb
		EPA 602 • SW-846 8020		1210 ppb
A627606.....	Under Pump Island#2 Loc.F	Benzene	0.2	ND ppb
Sample phase:	Grab	Toluene	0.2	786 ppb
Remarks:		Ethyl/Chlorobenzene	0.2	ND ppb
		o,m,p-Xylenes	0.2	28703 ppb
		Dichlorobenzenes	0.2	ND ppb
		EPA 602 • SW-846 8020		29489 ppb

Environmental Testing Laboratories, Inc.

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ANALYSIS REPORT - EPA 602 • SW-846 8020

10/05/90

Review by: DS

Project Location
Closed S/S
4th Ave. & 1st St.
Brooklyn, NY
Sampled by: John Greene

Dates
Collected: 09/18/90
Received: 09/19/90
Analyzed: 10/02/90

Sample ID	Location	Analyte	( ) MDL	Concentration
A627607.....	Com.Stockpiled Soil-Loc.G	Benzene	0.2	ND ppb
Sample phase:	Composite	Toluene	0.2	94 ppb
Remarks:		Ethyl/Chlorobenzene	0.2	ND ppb
		o,m,p-Xylenes	0.2	<5 ppb
		Dichlorobenzenes	0.2	ND ppb
		EPA 602 • SW-846 8020		94 - 99 ppb

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND= Not Detected; B=in blank
NA = Not Analyzed; MDL varies by dilution; nd=Not Determined

Environmental Testing Laboratories, Inc.

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ANALYSIS REPORT - Total Pet. Hydrocarbons

10/05/90

Review by: DS

Project Location
Closed S/S
4th Ave. & 1st St.
Brooklyn, NY
Sampled by: John Greene

Dates
Collected: 09/18/90
Received: 09/19/90
Analyzed: 10/03/90

Sample ID	Location	Analyte	( ) MDL	Concentration
A627601.....	Bottom of Tank Exc.-Loc.A	Total Recoverable Petroleum Hydrocarbon	1 0	1545 ppm
Sample phase:	Grab			
Remarks:				
A627602.....	Bottom of Tank Exc.-Loc.B	Total Recoverable Petroleum Hydrocarbon	1 0	68 ppm
Sample phase:	Grab			
Remarks:				
A627603.....	Bottom of F.O. Exc.-Loc.C	Total Recoverable Petroleum Hydrocarbon	1 0	139 ppm
Sample phase:	Grab			
Remarks:				
A627604.....	Bottom of W.O. Exc.-Loc.D	Total Recoverable Petroleum Hydrocarbon	1 0	153 ppm
Sample phase:	Grab			
Remarks:				
A627605.....	Under Pump Island#1 Loc.E	Total Recoverable Petroleum Hydrocarbon	1 0	123 ppm
Sample phase:	Grab			
Remarks:				
A627606.....	Under Pump Island#2 Loc.F	Total Recoverable Petroleum Hydrocarbon	1 0	1129 ppm
Sample phase:	Grab			
Remarks:				
A627607.....	Com.Stockpiled Soil-Loc.G	Total Recoverable Petroleum Hydrocarbon	1 0	6868 ppm
Sample phase:	Composite			
Remarks:				

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND= Not Detected; B=in blank
NA = Not Analyzed; MDL varies by dilution; nd=Not Determined

Environmental Testing Laboratories, Inc.

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ANALYSIS REPORT - EPA 601 • SW-846 8010

 10/05/90

Review by: DS

Project Location
Closed S/S
4th Ave. & 1st St.
Brooklyn, NY
Sampled by: John Greene

Dates
Collected: 09/18/90
Received: 09/19/90
Analyzed: 10/02/90

Sample ID	Location	Analyte	( ) MDL	Concentration
A627604.....	Bottom of W.O. Exc.-Loc.D	Bromodichloromethane	0.1	ND ppb
Sample phase:	Grab	Bromoform	0.2	ND ppb
Remarks:		Bromomethane	1.18	ND ppb
		Carbon Tetrachloride	0.12	ND ppb
		Chlorobenzene	0.25	ND ppb
		Chloroethane	0.52	ND ppb
		2-Chloroethylvinyl ether	0.13	ND ppb
		Chloroform	0.05	ND ppb
		Chloromethane	0.08	ND ppb
		Dibromochloromethane	0.09	ND ppb
		1,2-Dichlorobenzene	0.15	ND ppb
		1,3-Dichlorobenzene	0.32	ND ppb
		1,4-Dichlorobenzene	0.24	ND ppb
		Dichlorodifluoromethane	1.81	ND ppb
		1,1-Dichloroethane	0.13	ND ppb
		1,2-Dichloroethane	0.03	ND ppb
		1,1-Dichloroethene	0.13	ND ppb
		trans-1,2-Dichloroethene	0.1	ND ppb
		1,2-Dichloropropane	0.04	ND ppb
		cis-1,3-Dichloropropene	0.34	ND ppb
		tran-1,3-Dichloropropene	0.34	ND ppb
		Methylene Chloride	0.25	ND ppb
		1,1,2,2-Tetrachloroethane	0.03	ND ppb
		Tetrachloroethene	0.03	ND ppb
		1,1,1-Trichloroethane	0.03	ND ppb
		1,1,2-Trichloroethane	0.02	ND ppb
		Trichloroethene	0.03	ND ppb
		Trichlorofluoromethane	0	ND ppb
		Vinyl Chloride	0.18	ND ppb

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND= Not Detected; B=in blank
NA = Not Analyzed; MDL varies by dilution; nd=Not Determined

Environmental Testing Laboratories, Inc.

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ANALYSIS REPORT - EP Toxicity for Metals

10/05/90

Review by: DSp

Project Location
Closed S/S
4th Ave. & 1st St.
Brooklyn, NY
Sampled by: John Greene

Dates
Collected: 09/18/90
Received: 09/19/90
Analyzed: 09/28/90

Sample ID	Location	Analyte	( ) MDL	Concentration
A627604.....	Bottom of W.O. Exc.-Loc.D	Arsenic (As)	0.001	.014 ppm
Sample phase:	Grab	Barium (Ba)	0.05	.073 ppm
Remarks:		Cadmium (Cd)	0.02	<.020 ppm
		Chromium (Cr)	0.05	<.050 ppm
		Lead (Pb)	0.02	1.0 ppm
		Mercury (Hg)	0.001	.180 ppm
		Selenium (Se)	0.001	.008 ppm
		Silver (Ag)	0.02	<.020 ppm
A627607.....	Com.Stockpiled Soil-Loc.G	Arsenic (As)	0.001	.002 ppm
Sample phase:	Composite	Barium (Ba)	0.05	.226 ppm
Remarks:		Cadmium (Cd)	0.02	<.020 ppm
		Chromium (Cr)	0.05	<.050 ppm
		Lead (Pb)	0.02	.669 ppm
		Mercury (Hg)	0.001	.006 ppm
		Selenium (Se)	0.001	.007 ppm
		Silver (Ag)	0.02	<.020 ppm

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND= Not Detected; B=in blank
NA = Not Analyzed; MDL varies by dilution; nd=Not Determined

Environmental Testing Laboratories, Inc.

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ANALYSIS REPORT - Flash Point; Ignitability

10/05/90

Review by: DS

Project Location
Closed S/S
4th Ave. & 1st St.
Brooklyn, NY
Sampled by: John Greene

Dates
Collected: 09/18/90
Received: 09/19/90
Analyzed: 09/20/90

Sample ID	Location	Analyte	( ) MDL	Concentration
A627607.....	Com.Stockpiled Soil-Loc.G	Flash Point	1	>100 deg C
Sample phase: Composite		Flash Point	1	>212 deg F
Remarks:				

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND= Not Detected; B=in blank
NA = Not Analyzed; MDL varies by dilution; nd=Not Determined

Environmental Testing Laboratories, Inc.

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ANALYSIS REPORT - Reactivity

10/05/90

Review by: _____

Project Location
Closed S/S
4th Ave. & 1st St.
Brooklyn, NY
Sampled by: John Greene

Dates
Collected: 09/18/90
Received: 09/19/90
Analyzed: 09/28/90

Sample ID	Location	Analyte	( ) MDL	Concentration
A627607.....	Com.Stockpiled Soil-Loc.G	Hydrogen Sulfide	0.01	6.61 ppm
Sample phase:	Composite	Cyanide	0.1	28 ppm
Remarks:		Reactivity	0	Negative

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND= Not Detected; B=in blank
NA = Not Analyzed; MDL varies by dilution; nd=Not Determined

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - pH

10/05/90

Review by: DS

Project Location
Closed S/S
4th Ave. & 1st St.
Brooklyn, NY
Sampled by: John Greene

Dates
Collected: 09/18/90
Received: 09/19/90
Analyzed: 09/28/90

Sample ID	Location	Analyte	( ) MDL	Concentration
A627607.....	Com.Stockpiled Soil-Loc.G	pH	0	8.11
Sample phase:	Composite	Temperature	0	22 C
Remarks:				

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND= Not Detected; B=in blank
NA = Not Analyzed; MDL varies by dilution; nd=Not Determined

ETL
Environmental Testing Laboratories, Inc.

516-249-1456
516-249-3150
FAX 516-249-3281

208 Route 109 • Farmingdale • New York 11735

SOIL & WATER ANALYSIS • ORGANIC/INORGANIC • PETRO CHEMICAL

CHAIN OF CUSTODY DOCUMENT

A 6276

PROJECT INFO. Project Name: Closed S/S

Project Location: 4th Avenue and 1st Street, Brooklyn, N.Y.

Client Name: Tyree Bros.

Priority: ☐ Rush by / /

Sampler (Signature): John E. Dicone

Samplers Name (Print): John E. Dicone

SAMPLE INFORMATION

* L=Liquid; SS=Split Spoon; G=Grab; C=Comp.; U=Unknown Drum

Sample ID	Date	Time	Type *	Sample Location	601	602-THC	608 - PCB	610	624	625	418.1 - TRPH	BTX	BTEX	O & G	Pet. Prods.	EP Tox. metals	RCRA Metals	pH - Cor.	Ignitability	EP Tox - Pb	Other
1 6276-1	9-19-90		C	Bottom of Tank Excavation - location A		X				X											
2 6276-2	9-19-90		C	Bottom of Tank Excavation - location B		X				X											
3 6276-3	9-19-90		G	Bottom of T.C. Excavation - location C		X				X											
4 6276-4	9-19-90		G	Bottom of W.O. Excavation - location D	X	X				X					X						
5 6276-5	9-19-90		G	Under Pump Island #1 - location E		X				X											
6 6276-6	9-19-90		C	Under Pump Island #2 - location F		X				X											
7 6276-7	9-19-90		C	Composite from stockpiled soil - location G		X				X					X		X	X			reactivity
8																					
9																					
10																					
11																					

Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received by (Signature):	Date / Time	Printed Name & Agent:
John E. Dicone	9-19-90 / 3:40	John Dicone, Tyree Bros.			
Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Received by (Signature):	Date / Time	Printed Name & Agent:
Relinquished by (Signature):	Date / Time	Printed Name & Agent:	Comments & Special Instructions:		
Received for Lab by (Signature): Lynn Ellen Lupo	Date 9/19/90 / Time 3:40	Printed Name: [illegible]			

Tyree Environmental Technologies

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA 602 • SW-846 8020

11/01/90

Reviewed by: _____

Project Location
Closed S/S
4th Ave. & 1st St.
Brooklyn, NY
Sampled by: C. Migliore

Dates
Collected: 10/23/90
Received: 10/24/90
Analyzed: 11/25/90

Sample ID	Location	Analyte	( ) MDL	Concentration
A673201.....	Well 1	Benzene	0.2	4340 ppb
Sample phase: Liquid		Toluene	0.2	8543 ppb
Remarks: High Concentration of MTBE		Ethyl/Chlorobenzene	0.2	3268 ppb
		o,m,p-Xylenes	0.2	12111 ppb
		Dichlorobenzenes	0.2	<1 ppb
		EPA 602 • SW-846 8020		28262 - 28263 ppb
A673202.....	Well 2	Benzene	0.2	8884 ppb
Sample phase: Liquid		Toluene	0.2	2120 ppb
Remarks: High Concentration of MTBE		Ethyl/Chlorobenzene	0.2	2829 ppb
		o,m,p-Xylenes	0.2	4880 ppb
		Dichlorobenzenes	0.2	<1 ppb
		EPA 602 • SW-846 8020		18713 - 18714 ppb
A673203.....	Well 3	Benzene	0.2	6084 ppb
Sample phase: Liquid		Toluene	0.2	6762 ppb
Remarks: High Concentration of MTBE		Ethyl/Chlorobenzene	0.2	3097 ppb
		o,m,p-Xylenes	0.2	11644 ppb
		Dichlorobenzenes	0.2	1.5 ppb
		EPA 602 • SW-846 8020		27588.5 ppb

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND= Not Detected; B=in blank
NA = Not Analyzed; MDL varies by dilution; nd=Not Determined

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA 601 • SW-846 8010

11/01/90

Reviewed by: D S

Project Location
Closed S/S
4th Ave. & 1st St.
Brooklyn, NY
Sampled by: C. Migliore

Dates
Collected: 10/23/90
Received: 10/24/90
Analyzed: 10/25/90

Sample ID	Location	Analyte	( ) MDL	Concentration
A673201.....	Well 1	Bromodichloromethane	0.1	ND ppb
Sample phase:	Liquid	Bromoform	0.2	ND ppb
Remarks:		Bromomethane	1.18	ND ppb
		Carbon Tetrachloride	0.12	ND ppb
		Chlorobenzene	0.25	3.6 ppb
		Chloroethane	0.52	ND ppb
		2-Chloroethylvinyl ether	0.13	ND ppb
		Chloroform	0.05	ND ppb
		Chloromethane	0.08	ND ppb
		Dibromochloromethane	0.09	ND ppb
		1,2-Dichlorobenzene	0.15	ND ppb
		1,3-Dichlorobenzene	0.32	ND ppb
		1,4-Dichlorobenzene	0.24	ND ppb
		Dichlorodifluoromethane	1.81	ND ppb
		1,1-Dichloroethane	0.13	ND ppb
		1,2-Dichloroethane	0.03	ND ppb
		1,1-Dichloroethene	0.13	17 ppb
		trans-1,2-Dichloroethene	0.1	ND ppb
		1,2-Dichloropropane	0.04	ND ppb
		cis-1,3-Dichloropropene	0.34	ND ppb
		tran-1,3-Dichloropropene	0.34	ND ppb
		Methylene Chloride	0.25	ND ppb
		1,1,2,2-Tetrachloroethane	0.03	ND ppb
		Tetrachloroethene	0.03	ND ppb
		1,1,1-Trichloroethane	0.03	ND ppb
		1,1,2-Trichloroethane	0.02	ND ppb
		Trichloroethene	0.03	ND ppb
		Trichlorofluoromethane	nd	ND ppb
		Vinyl Chloride	0.18	ND ppb

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA 601 • SW-846 8010

11/01/90

Reviewed by: _____

Project Location
Closed S/S
4th Ave. & 1st St.
Brooklyn, NY
Sampled by: C. Migliore

Dates
Collected: 10/23/90
Received: 10/24/90
Analyzed: 10/25/90

Sample ID	Location	Analyte	( ) MDL	Concentration
A673202.....	Well 2	Bromodichloromethane	0.1	ND ppb
Sample phase:	Liquid	Bromoform	0.2	ND ppb
Remarks:		Bromomethane	1.18	ND ppb
		Carbon Tetrachloride	0.12	ND ppb
		Chlorobenzene	0.25	ND ppb
		Chloroethane	0.52	ND ppb
		2-Chloroethylvinyl ether	0.13	ND ppb
		Chloroform	0.05	ND ppb
		Chloromethane	0.08	ND ppb
		Dibromochloromethane	0.09	3.1 ppb
		1,2-Dichlorobenzene	0.15	ND ppb
		1,3-Dichlorobenzene	0.32	ND ppb
		1,4-Dichlorobenzene	0.24	ND ppb
		Dichlorodifluoromethane	1.81	ND ppb
		1,1-Dichloroethane	0.13	ND ppb
		1,2-Dichloroethane	0.03	ND ppb
		1,1-Dichloroethene	0.13	13 ppb
		trans-1,2-Dichloroethene	0.1	ND ppb
		1,2-Dichloropropane	0.04	ND ppb
		cis-1,3-Dichloropropene	0.34	ND ppb
		tran-1,3-Dichloropropene	0.34	ND ppb
		Methylene Chloride	0.25	ND ppb
		1,1,2,2-Tetrachloroethane	0.03	ND ppb
		Tetrachloroethene	0.03	ND ppb
		1,1,1-Trichloroethane	0.03	ND ppb
		1,1,2-Trichloroethane	0.02	ND ppb
		Trichloroethene	0.03	ND ppb
		Trichlorofluoromethane	nd	ND ppb
		Vinyl Chloride	0.18	ND ppb

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - EPA 601 • SW-846 8010

11/01/90

Reviewed by: DS

Project Location
Closed S/S
4th Ave. & 1st St.
Brooklyn, NY
Sampled by: C. Migliore

Dates
Collected: 10/23/90
Received: 10/24/90
Analyzed: 10/25/90

Sample ID	Location	Analyte	( ) MDL	Concentration
A673203.....	Well 3	Bromodichloromethane	0.1	ND ppb
Sample phase:	Liquid	Bromoform	0.2	ND ppb
Remarks:		Bromomethane	1.18	ND ppb
		Carbon Tetrachloride	0.12	ND ppb
		Chlorobenzene	0.25	ND ppb
		Chloroethane	0.52	ND ppb
		2-Chloroethylvinyl ether	0.13	ND ppb
		Chloroform	0.05	ND ppb
		Chloromethane	0.08	ND ppb
		Dibromochloromethane	0.09	ND ppb
		1,2-Dichlorobenzene	0.15	ND ppb
		1,3-Dichlorobenzene	0.32	ND ppb
		1,4-Dichlorobenzene	0.24	ND ppb
		Dichlorodifluoromethane	1.81	ND ppb
		1,1-Dichloroethane	0.13	ND ppb
		1,2-Dichloroethane	0.03	ND ppb
		1,1-Dichloroethene	0.13	19 ppb
		trans-1,2-Dichloroethene	0.1	ND ppb
		1,2-Dichloropropane	0.04	ND ppb
		cis-1,3-Dichloropropene	0.34	ND ppb
		tran-1,3-Dichloropropene	0.34	ND ppb
		Methylene Chloride	0.25	ND ppb
		1,1,2,2-Tetrachloroethane	0.03	ND ppb
		Tetrachloroethene	0.03	ND ppb
		1,1,1-Trichloroethane	0.03	ND ppb
		1,1,2-Trichloroethane	0.02	ND ppb
		Trichloroethene	0.03	ND ppb
		Trichlorofluoromethane	nd	ND ppb
		Vinyl Chloride	0.18	ND ppb

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND= Not Detected; B=in blank
NA = Not Analyzed; MDL varies by dilution; nd=Not Determined

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - Total Pet. Hydrocarbons

11/01/90

Reviewed by: DS

Project Location
Closed S/S
4th Ave. & 1st St.
Brooklyn, NY
Sampled by: C. Migliore

Dates
Collected: 10/23/90
Received: 10/24/90
Analyzed: 11/01/90

Sample ID	Location	Analyte	( ) MDL	Concentration
A673201.....	Well 1 Sample phase: Liquid Remarks: High Concentration of MTBE	Total Recoverable Petroleum Hydrocarbon	1	17 ppm
A673202.....	Well 2 Sample phase: Liquid Remarks: High Concentration of MTBE	Total Recoverable Petroleum Hydrocarbon	1	54 ppm
A673203.....	Well 3 Sample phase: Liquid Remarks: High Concentration of MTBE	Total Recoverable Petroleum Hydrocarbon	1	<1 ppm

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND= Not Detected; B=in blank
NA = Not Analyzed; MDL varies by dilution; nd=Not Determined

ETL
Environmental Testing Laboratories, Inc.

516-249-1456
516-249-3150
FAX 516-249-3281

208 Route 109 • Farmingdale • New York 11735

SOIL & WATER ANALYSIS • ORGANIC/INORGANIC • PETRO CHEMICAL

CHAIN OF CUSTODY DOCUMENT

A 6732

OJECT INFO. Project Name: Closed s/s

ject Location: 4th Ave. & I-495 (Bradhurst)

nt Name: Bros. Priority: ☐ Rush by / /

Sampler (Signature):

Samplers Name (Print):

AMPLE INFORMATION * L=Liquid; SS=Split Spoon; G=Grab; C=Comp.; U=Unknown Drum

ANALYSIS REQUIRED

mple ID	Date	Time	Type *	Sample Location	601	602-THC	608 - PCB	610	624	625	418.1 -TRPH	BTX	BTEX	O & G	Pet. Prods.	EP Tox.	RCRA Metals	pH - Cor.	Ignitability	EP Tox -Pb	Other
	10/4		C			X															
	"		C			X															
	"		C			X															
0																					
1																					

linquished by (Signature):	Date 10/4/90 Time 3:45 P.M.	Printed Name & Agent:	Received by (Signature):	Date 10/4/90 Time 3:45 PM	Printed Name & Agent: Dawn Medaglia Tyree Bros
linquished by (Signature):	Date Time	Printed Name & Agent:	Received by (Signature):	Date Time	Printed Name & Agent:
linquished by (Signature):	Date Time	Printed Name & Agent:	Comments & Special Instructions: For John G.		
ceived for Lab by (Signature):	Date 10/4/90 Time 1915	Printed Name:			

Tyree Environmental Technologies

TYREE BROTHERS
ENVIRONMENTAL SERVICES, INC.
208 ROUTE 109 • FARMINGDALE • NEW YORK 11735

CLIENT: Spartan Petrol. LOCATION: Closed S/S Fourth Ave & First St. Brooklyn, New York	Drill Rig: CME-75 Drill Method: Hollow Stem Auger Driller: Ken Watson Logged by: Ken Watson Sample Type: None Date: 10-13-90 Weather: 70°/rain	BORE HOLE / WELL DATA Diam.(in.): 10" Screen Lgt.(ft.): 10' Depth (ft.): 20' Screen Intvl.(ft.): 8.5'-18.5' Casing Diam.(in.): 4" Screen Type: PVC Casing Length(ft.): 8.5' Screen Slot: .020" WELL NO.: W-1 DTW: 9'

DEPTH BELOW (ft.) SURFACE:	OVA RDGS. (ppm)	BLOW COUNTS	FIELD DESCRIPTION OF SOIL:	DRILLER'S REMARKS:
0			Dark gray medium loose sand with gravel and construction debri.	Petroleum Odor
5			Dark gray clayey medium loose sand with gravel	Strong Gasoline Odor
			Gray clay	Strong Gasoline Odor
10			Dark gray to black medium sand	Strong Gasoline Odor
15				
20			Drilled 20' boring and installed a 18.5' well.	
25				
30				
35				

TYREE BROTHERS
ENVIRONMENTAL SERVICES, INC.
208 ROUTE 109 • FARMINGDALE • NEW YORK 11735

CLIENT: Spartan Petrol. LOCATION: Closed S/S Fourth Ave & First St. Brooklyn, New York	Drill Rig: CME-75 Drill Method: Hollow Stem Auger Driller: Ken Watson Logged by: Ken Watson Sample Type: None Date: 10-13-90 Weather: 70°/rain	BORE HOLE / WELL DATA Diam.(in.): 10" Screen Lgt.(ft.): 10' Depth (ft.): 20' Screen Intvl.(ft.): 5'-15' Casing Diam.(in.): 4" Screen Type: PVC Casing Length(ft.): 5' Screen Slot: .020" WELL NO.: W-2 DTW: 8'

DEPTH BELOW SURFACE: (ft.)	OVA RDGS. (ppm)	BLOW COUNTS	FIELD DESCRIPTION OF SOIL:	DRILLER'S REMARKS:
0			gray medium sand with gravel and construction debri.	Petroleum Odor
5			Gray clay	Gasoline Odor
10			Black medium sand	Strong Gasoline Odor
15			Drilled and installed a 15' well.	
20				
25				
30				
35				

TYREE BROTHERS
ENVIRONMENTAL SERVICES, INC.

208 ROUTE 109 • FARMINGDALE • NEW YORK 11735

CLIENT: Spartan Petrol. LOCATION: Closed S/S Fourth Ave & First St. Brooklyn, New York	Drill Rig: CME-75 Drill Method: Hollow Stem Auger Driller: Ken Watson Logged by: Ken Watson Sample Type: None Date: 10-13-90 Weather: 70°/rain	BORE HOLE / WELL DATA Diam.(in.): 10" Screen Lgt.(ft.): 10' Depth (ft.): 20' Screen Intvl.(ft.): 5'-15' Casing Diam.(in.): 4" Screen Type: PVC Casing Length(ft.): 5' Screen Slot: .020" WELL NO.: W-3 DTW: 8'

DEPTH BELOW SURFACE: (ft.)	OVA RDGS. (ppm)	BLOW COUNTS	FIELD DESCRIPTION OF SOIL:	DRILLER'S REMARKS:
0			gray medium sand with gravel and construction debri.	Petroleum Odor
5			Gray clay	Gasoline Odor
10			Black medium sand	Strong Gasoline Odor
15			Drilled and installed a 15' well.	
20				
25				
30				
35				

5150

10800

38800

42900

G 92500
T 31840
N. 60660

30.33

ALL AMERICAN AUTO/TRUCK PLAZA
Rt. 11 Turnpike Exit 16
1-81 Exit 17
Carlisle, PA 17013
Phone (717) 249-1919

1. Insert ticket to this line.

$1.00 Per Axle

Restaurant
Garage

AMOCO

Private Showers
Store

ATHENS HOCKING LANDFILL WASTE MANIFEST

CUSTOMER HAULER

PLEASE TYPE OR PRINT CLEARLY USING A BALLPOINT PEN — PRESS HARD

DOCUMENT NO. A.H. Nº 5150

GENERATOR NAME

1. JIMMY BYRNE NYS DEC 1A-206

GENERATOR ADDRESS — FOR THE SERVICE LOCATION

1. 65 GLEN COVE AVENUE GLEN COVE, NEW YORK
2.
3.

GENERATOR CONTACT SUPERVISOR — SERVICE LOCATION

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area Code (516) - 671-7799
3. DATE SHIPPED FROM SERVICE LOCATION 10-17-90
4. TIME SHIPPED FROM SERVICE LOCATION _____ A.M. _____ P.M. _____
5. GENERATOR SIGNATURE _____

GENERATOR IDENTIFICATION OF WASTE TYPE OR TYPES.

1. ITEM TYPE CONTAMINATED SOIL
2. ITEM TYPE SPARTAN PETRO SERVICE STATION
3. ITEM TYPE 4TH AVENUE & FIRST STREET
4. ITEM TYPE BROOKLYN, NEW YORK
5. QUANTITY — CHECK ONE (✓) CUBIC YARDS _____ TONS 20.33 OTHER _____
6. SHIPPED IN CONTAINER TYPE TRAILER ID NO. _____

TRANSPORTER NAME AND ADDRESS

1. JIMMY BYRNE
2. 7 CARLISLE DRIVE
3. OLD BROOKVILLE, N.Y. 11545
4.

TRANSPORTER CONTACT SUPERVISOR

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area code (516) - 671-7799
3. DATE OF THE LOAD PICKUP 10-17-90
4. TIME OF THE LOAD PICKUP _____ (A.M) _____ P.M. _____
5. GENERATOR SERVICE LOCATION [illegible]
6. DRIVER'S NAME P. TENTINI
7. DRIVER'S SIGNATURE [signature]

TRANSPORTER DELIVERY SCHEDULE

1. DATE OF THE DELIVERY 10-18-90
2. TIME OF THE DELIVERY _____ (A.M) _____ P.M. _____
3. DRIVER'S NAME P. TENTINI
4. DRIVER'S SIGNATURE [signature]
5. DELIVERY IN CONTAINER TYPE TRAILER ID NO. _____
6. IDENTIFICATION OF WASTE MUST BE THE SAME AS GENERATOR IDENTIFICATION YES X NO _____

DISPOSAL FACILITY — A.H. LANDFILL

1. DELIVERY RECEIVED DATE 10-18-90
2. TIME OF DELIVERY _____ (A.M) _____ P.M. _____
3. A.H. SUPERVISOR INSPECTOR NAME N. KUNKLER
4. INSPECTOR SIGNATURE [signature]
5. THE LOAD WAS RECEIVED AS STATED BY THE GENERATOR YES AAA NO _____
6. REJECTED LOAD — YES _____ NO AAA
   IF YES PLEASE REMARK _____

GENERATOR'S CERTIFICATION. This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. E.P.A. and the Ohio D.E.R. THE WASTE DESCRIBED ABOVE WAS APPROVED FOR DISPOSAL AT A.H. LANDFILL, BASED ON THE AGREEMENT BETWEEN BOTH THE GENERATOR AND THE DISPOSAL FACILITY. I certify that the foregoing is true and correct to the best of my knowledge. If the waste shipment is not as stated I accept the RETURN of the COMPLETE LOAD to the generator's service location, at the generator's expense.

INSTRUCTIONS

GENERATOR'S COPY — Mailed from A.H., Inc. after disposal process, and with the monthly billing.
TRANSPORTER'S COPY — Given to the transporter driver when shipment is inspected and unloaded.
DISPOSAL FACILITY — Filed in customer - generator master file.

(1) Disposal Facility Copy *(2) Generator's Copy* *(3) Transporter's Copy*

6149

12380

46920

50020

G 109320

T 31480

N 77840

38.92

ALL AMERICAN AUTO/TRUCK PLAZA

Rt. 11 Turnpike Exit 16
1-81 Exit 17
Carlisle, PA 17013
Phone (717) 249-1919

---

1. Insert ticket to this line.

$1.00 Per Axle

Restaurant
Garage

AMOCO

Private Showers
Store

ATHENS HOCKING LANDFILL WASTE MANIFEST

CUSTOMER HAULER

PLEASE TYPE OR PRINT CLEARLY USING A BALLPOINT PEN — PRESS HARD

DOCUMENT NO. A.H. **No.** 6149

GENERATOR NAME

1. JIMMY BYRNE NYS DEC 1A-206

GENERATOR ADDRESS — FOR THE SERVICE LOCATION

1. 65 GLEN COVE AVENUE GLEN COVE, NEW YORK 11542
2.
3.

GENERATOR CONTACT SUPERVISOR — SERVICE LOCATION

1. NAME _____ TITLE _____
2. PHONE NUMBER — Area Code ( ) - _____
3. DATE SHIPPED FROM SERVICE LOCATION 10-17-90
4. TIME SHIPPED FROM SERVICE LOCATION _____ A.M. (A.M.) _____ P.M.
5. GENERATOR SIGNATURE _____

GENERATOR IDENTIFICATION OF WASTE TYPE OR TYPES.

1. ITEM TYPE SPARTAN PETROLEUM
2. ITEM TYPE 4th. AVE. & 1st. STREET
3. ITEM TYPE BROOKLYN, NY
4. ITEM TYPE
5. QUANTITY — CHECK ONE (✓) **CUBIC YARDS** N/A **TONS** 38.92 **OTHER** _____
6. SHIPPED IN CONTAINER TYPE TRAILER ID NO. _____

TRANSPORTER NAME AND ADDRESS

1. JIMMY BYRNE
2. 7 CARLISLE DRIVE
3. OLD BROOKVILLE, N.Y. 11545
4.

TRANSPORTER CONTACT SUPERVISOR

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area code (516) - 671-7799
3. DATE OF THE LOAD PICKUP 10-17-90
4. TIME OF THE LOAD PICKUP _____ A.M. (A.M.) _____ P.M.
5. GENERATOR SERVICE LOCATION _____
6. DRIVER'S NAME _____
7. DRIVER'S SIGNATURE _____

TRANSPORTER DELIVERY SCHEDULE

1. DATE OF THE DELIVERY 10-18-90
2. TIME OF THE DELIVERY _____ A.M. (A.M.) _____ P.M.
3. DRIVER'S NAME _____
4. DRIVER'S SIGNATURE _____
5. DELIVERY IN CONTAINER TYPE TRAILER ID NO. _____
6. IDENTIFICATION OF WASTE MUST BE THE SAME AS GENERATOR IDENTIFICATION YES ✓ NO _____

DISPOSAL FACILITY — A.H. LANDFILL

1. DELIVERY RECEIVED DATE 10-18-90
2. TIME OF DELIVERY _____ A.M. (A.M.) _____ P.M.
3. A.H. SUPERVISOR INSPECTOR NAME _____
4. INSPECTOR SIGNATURE _____
5. THE LOAD WAS RECEIVED AS STATED BY THE GENERATOR. YES ✓ NO _____
6. REJECTED LOAD — YES _____ NO ✓

IF YES PLEASE REMARK _____

GENERATOR'S CERTIFICATION. This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. E.P.A. and the Ohio D.E.R. THE WASTE DESCRIBED ABOVE WAS APPROVED FOR DISPOSAL AT A.H. LANDFILL, BASED ON THE AGREEMENT BETWEEN BOTH THE GENERATOR AND THE DISPOSAL FACILITY. I certify that the foregoing is true and correct to the best of my knowledge. If the waste shipment is not as stated I accept the RETURN of the COMPLETE LOAD to the generator's service location, at the generator's expense.

INSTRUCTIONS

GENERATOR'S COPY — Mailed from A.H., Inc. after disposal process, and with the monthly billing.
TRANSPORTER'S COPY — Given to the transporter driver when shipment is inspected and unloaded.
DISPOSAL FACILITY — Filed in customer - generator master file.

(1) Disposal Facility Copy *(2) Generator's Copy* *(3) Transporter's Copy*

6148

11380

42200

45880

G 99460
T 34130
N 65330

32.66

ALL AMERICAN AUTO/TRUCK PLAZA
Rt. 11 Turnpike Exit 16
1-81 Exit 17
Carlisle, PA 17013
Phone (717) 249-1919

---

1. Insert ticket to this line.

$1.00 Per Axle

Restaurant
Garage

AMOCO

Private Showers
Store

ATHENS HOCKING LANDFILL WASTE MANIFEST

CUSTOMER HAULER

PLEASE TYPE OR PRINT CLEARLY USING A BALLPOINT PEN — PRESS HARD

PO #TB-01156

DOCUMENT NO. A.H. **Nº 6148**

GENERATOR NAME

1. JIMMY BYRNE NYS DEC 1A-206

GENERATOR ADDRESS — FOR THE SERVICE LOCATION

1. 65 GLEN COVE AVENUE GLEN COVE, NEW YORK 11542
2.
3.

GENERATOR CONTACT SUPERVISOR — SERVICE LOCATION

1. NAME _____ TITLE _____
2. PHONE NUMBER — Area Code ( ) - _____
3. DATE SHIPPED FROM SERVICE LOCATION 10-17-90
4. TIME SHIPPED FROM SERVICE LOCATION _____ A.M. _____ P.M.
5. GENERATOR SIGNATURE _____

GENERATOR IDENTIFICATION OF WASTE TYPE OR TYPES.

1. ITEM TYPE _____ SPARTAN PETROLEUM
2. ITEM TYPE _____ 4th. AVE. & 1st. STREET
3. ITEM TYPE _____ BROOKLYN, NY
4. ITEM TYPE _____
5. QUANTITY — CHECK ONE (✓) **CUBIC YARDS** N/A **TONS** 32.66. **OTHER** _____
6. SHIPPED IN CONTAINER TYPE TRAILER ID NO. _____

TRANSPORTER NAME AND ADDRESS

1. JIMMY BYRNE
2. 7 CARLISLE DRIVE
3. OLD BROOKVILLE, N.Y. 11545
4.

TRANSPORTER CONTACT SUPERVISOR

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area code (516) - 671-7799
3. DATE OF THE LOAD PICKUP 10-17-90
4. TIME OF THE LOAD PICKUP _____ A.M. _____ P.M.
5. GENERATOR SERVICE LOCATION _____
6. DRIVER'S NAME Dave Zinsky
7. DRIVER'S SIGNATURE Dave Zinsky

TRANSPORTER DELIVERY SCHEDULE

1. DATE OF THE DELIVERY 10-18-90
2. TIME OF THE DELIVERY _____ A.M. _____ P.M.
3. DRIVER'S NAME Dave Zinsky
4. DRIVER'S SIGNATURE Dave Zinsky
5. DELIVERY IN CONTAINER TYPE TRAILER ID NO. _____
6. IDENTIFICATION OF WASTE MUST BE THE SAME AS GENERATOR IDENTIFICATION YES ✓ NO _____

DISPOSAL FACILITY — A.H. LANDFILL

1. DELIVERY RECEIVED DATE 10-17-90
2. TIME OF DELIVERY _____ A.M. _____ P.M.
3. A.H. SUPERVISOR INSPECTOR NAME Mick Kumpin
4. INSPECTOR SIGNATURE _____
5. THE LOAD WAS RECEIVED AS STATED BY THE GENERATOR YES ✓ NO _____
6. REJECTED LOAD — YES _____ NO ✓

IF **YES** PLEASE REMARK _____

GENERATOR'S CERTIFICATION. This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. E.P.A. and the Ohio D.E.R. THE WASTE DESCRIBED ABOVE WAS APPROVED FOR DISPOSAL AT A.H. LANDFILL, BASED ON THE AGREEMENT BETWEEN BOTH THE GENERATOR AND THE DISPOSAL FACILITY. I certify that the foregoing is true and correct to the best of my knowledge. If the waste shipment is not as stated I accept the RETURN of the COMPLETE LOAD to the generator's service location, at the generator's expense.

INSTRUCTIONS

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TRANSPORTER'S COPY — Given to the transporter driver when shipment is inspected and unloaded.

DISPOSAL FACILITY — Filed in customer - generator master file.

(1) Disposal Facility Copy *(2) Generator's Copy* *(3) Transporter's Copy*

5749

10:80

41:80

45:20

G 9738.0

T 31501.

N 65880

32.94

ALL AMERICAN AUTO/TRUCK PLAZA

Rt. 11 Turnpike Exit 16
1-81 Exit 17
Carlisle, PA 17013
Phone (717) 249-1919

1. Insert ticket to this line.

$1.00 Per Axle

Restaurant
Garage

AMOCO

Private Showers
Store

ATHENS HOCKING LANDFILL WASTE MANIFEST

CUSTOMER HAULER

PLEASE TYPE OR PRINT CLEARLY USING A BALLPOINT PEN — PRESS HARD

DOCUMENT NO. A.H. № 5149

GENERATOR NAME

1. JIMMY BYRNE NYS DEC 1A-206

GENERATOR ADDRESS — FOR THE SERVICE LOCATION

1. 65 GLEN COVE AVENUE GLEN COVE, NEW YORK
2.
3.

GENERATOR CONTACT SUPERVISOR — SERVICE LOCATION

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area Code (516) - 671-7799
3. DATE SHIPPED FROM SERVICE LOCATION
4. TIME SHIPPED FROM SERVICE LOCATION A.M. P.M.
5. GENERATOR SIGNATURE

GENERATOR IDENTIFICATION OF WASTE TYPE OR TYPES.

1. ITEM TYPE SOIL
2. ITEM TYPE [illegible] SERVICE STATION
3. ITEM TYPE [illegible] FIRST STREET
4. ITEM TYPE [illegible] NEW YORK
5. QUANTITY — CUBIC YARDS TONS 32.74 OTHER
   CHECK ONE (✓)
6. SHIPPED IN CONTAINER TYPE TRAILER ID NO.

TRANSPORTER NAME AND ADDRESS

1. JIMMY BYRNE
2. 7 CARLISLE DRIVE
3. OLD BROOKVILLE, N.Y. 11545
4.

TRANSPORTER CONTACT SUPERVISOR

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area code (516) - 671-7799
3. DATE OF THE LOAD PICKUP
4. TIME OF THE LOAD PICKUP A.M. P.M.
5. GENERATOR SERVICE LOCATION
6. DRIVER'S NAME
7. DRIVER'S SIGNATURE

TRANSPORTER DELIVERY SCHEDULE

1. DATE OF THE DELIVERY
2. TIME OF THE DELIVERY A.M. P.M.
3. DRIVER'S NAME
4. DRIVER'S SIGNATURE
5. DELIVERY IN CONTAINER TYPE TRAILER ID NO.
6. IDENTIFICATION OF WASTE MUST BE THE SAME AS GENERATOR IDENTIFICATION YES X NO

DISPOSAL FACILITY — A.H. LANDFILL

1. DELIVERY RECEIVED DATE
2. TIME OF DELIVERY A.M. P.M.
3. A.H. SUPERVISOR INSPECTOR NAME A. Ron Klein
4. INSPECTOR SIGNATURE
5. THE LOAD WAS RECEIVED AS STATED BY THE GENERATOR YES XX NO
6. REJECTED LOAD — YES NO
   IF YES PLEASE REMARK

GENERATOR'S CERTIFICATION. This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S.E.P.A. and the Ohio D.E.R. THE WASTE DESCRIBED ABOVE WAS APPROVED FOR DISPOSAL AT A.H. LANDFILL, BASED ON THE AGREEMENT BETWEEN BOTH THE GENERATOR AND THE DISPOSAL FACILITY. I certify that the foregoing is true and correct to the best of my knowledge. If the waste shipment is not as stated I accept the RETURN of the COMPLETE LOAD to the generator's service location, at the generator's expense.

INSTRUCTIONS

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TRANSPORTER'S COPY — Given to the transporter driver when shipment is inspected and unloaded.
DISPOSAL FACILITY — Filed in customer - generator master file.

(1) Disposal Facility Copy *(2) Generator's Copy* *(3) Transporter's Copy*

5047

11780

40030

44780

G 96980

T 32180

N. 64800

32.40

ALL AMERICAN AUTO/TRUCK PLAZA

Rt. 11 Turnpike Exit 16
1-81 Exit 17
Carlisle, PA 17013
Phone (717) 249-1919

---

1. Insert ticket to this line.

$1.00 Per Axle

Restaurant
Garage

AMOCO

Private Showe
Store

ATHENS HOCKING LANDFILL WASTE MANIFEST

CUSTOMER HAULER

PLEASE TYPE OR PRINT CLEARLY USING A BALLPOINT PEN — PRESS HARD

DOCUMENT NO. A.H. Nº 5047

GENERATOR NAME

1. JIMMY BYRNE NYS DEC 1A-206

GENERATOR ADDRESS — FOR THE SERVICE LOCATION

1. 65 GLEN COVE AVENUE GLEN COVE, NEW YORK
2.
3.

GENERATOR CONTACT SUPERVISOR — SERVICE LOCATION

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area Code (516) - 671-7799
3. DATE SHIPPED FROM SERVICE LOCATION
4. TIME SHIPPED FROM SERVICE LOCATION A.M. P.M.
5. GENERATOR SIGNATURE

GENERATOR IDENTIFICATION OF WASTE TYPE OR TYPES.

1. ITEM TYPE CONTAMINATED SOIL
2. ITEM TYPE MARATHON PETRO SERVICE STATION
3. ITEM TYPE GLEN AVENUE & FIRST STREET
4. ITEM TYPE GLEN COVE, NEW YORK
5. QUANTITY — CUBIC YARDS TONS OTHER
   CHECK ONE (✓) 10 YD TONS N 32.40
6. SHIPPED IN CONTAINER TYPE TRAILER ID NO.

TRANSPORTER NAME AND ADDRESS

1. JIMMY BYRNE
2. 7 CARLISLE DRIVE
3. OLD BROOKVILLE, N.Y. 11545
4.

TRANSPORTER CONTACT SUPERVISOR

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area code (516) - 671-7799
3. DATE OF THE LOAD PICKUP 10/17/90
4. TIME OF THE LOAD PICKUP A.M. P.M.
5. GENERATOR SERVICE LOCATION SAME
6. DRIVER'S NAME
7. DRIVER'S SIGNATURE

TRANSPORTER DELIVERY SCHEDULE

1. DATE OF THE DELIVERY 10/17/90
2. TIME OF THE DELIVERY A.M. P.M.
3. DRIVER'S NAME
4. DRIVER'S SIGNATURE
5. DELIVERY IN CONTAINER TYPE TRAILER ID NO.
6. IDENTIFICATION OF WASTE MUST BE THE SAME AS GENERATOR IDENTIFICATION YES X NO

DISPOSAL FACILITY — A.H. LANDFILL

1. DELIVERY RECEIVED DATE 10/17/90
2. TIME OF DELIVERY A.M. P.M.
3. A.H. SUPERVISOR INSPECTOR NAME
4. INSPECTOR SIGNATURE
5. THE LOAD WAS RECEIVED AS STATED BY THE GENERATOR YES YES NO
6. REJECTED LOAD — YES NO NO

IF YES PLEASE REMARK

GENERATOR'S CERTIFICATION. This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S.E.P.A. and the Ohio D.E.R. THE WASTE DESCRIBED ABOVE WAS APPROVED FOR DISPOSAL AT A.H. LANDFILL, BASED ON THE AGREEMENT BETWEEN BOTH THE GENERATOR AND THE DISPOSAL FACILITY. I certify that the foregoing is true and correct to the best of my knowledge. If the waste shipment is not as stated I accept the RETURN of the COMPLETE LOAD to the generator's service location, at the generator's expense.

INSTRUCTIONS

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TRANSPORTER'S COPY — Given to the transporter driver when shipment is inspected and unloaded.
DISPOSAL FACILITY — Filed in customer - generator master file.

(1) Disposal Facility Copy *(2) Generator's Copy* *(3) Transporter's Copy*

5046

11880

48900

51080

G 111860
T 31420
N 80440

40.22

ALL AMERICAN AUTO/TRUCK PLAZA
Rt. 11 Turnpike Exit 16
1-81 Exit 17
Carlisle, PA 17013
Phone (717) 249-1919

1. Insert ticket to this line.

$1.00 Per Axle

Restaurant
Garage

AMOCO

Private Showers
Store

ATHENS HOCKING LANDFILL WASTE MANIFEST

CUSTOMER HAULER

PLEASE TYPE OR PRINT CLEARLY USING A BALLPOINT PEN — PRESS HARD

DOCUMENT NO. A.H. Nº 5046

GENERATOR NAME

1. JIMMY BYRNE NYS DEC 1A-206

GENERATOR ADDRESS — FOR THE SERVICE LOCATION

1. 65 GLEN COVE AVENUE GLEN COVE, NEW YORK
2.
3.

GENERATOR CONTACT SUPERVISOR — SERVICE LOCATION

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area Code (516) - 671-7799
3. DATE SHIPPED FROM SERVICE LOCATION 10-17-90
4. TIME SHIPPED FROM SERVICE LOCATION A.M. P.M.
5. GENERATOR SIGNATURE

GENERATOR IDENTIFICATION OF WASTE TYPE OR TYPES.

1. ITEM TYPE NB18 - CONTAMINATED SOIL
2. ITEM TYPE SPARTAN PETRO SERVICE STATION
3. ITEM TYPE 4TH AVENUE & FIRST STREET
4. ITEM TYPE BROOKLYN, NEW YORK
5. QUANTITY — CHECK ONE (✓) CUBIC YARDS N/A TONS 40.22 OTHER
6. SHIPPED IN CONTAINER TYPE TRAILER ID NO.

TRANSPORTER NAME AND ADDRESS

1. JIMMY BYRNE
2. 7 CARLISLE DRIVE
3. OLD BROOKVILLE, N.Y. 11545
4.

TRANSPORTER CONTACT SUPERVISOR

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area code (516) - 671-7799
3. DATE OF THE LOAD PICKUP 10-17-90
4. TIME OF THE LOAD PICKUP A.M. P.M.
5. GENERATOR SERVICE LOCATION SAME
6. DRIVER'S NAME O'HARA
7. DRIVER'S SIGNATURE Louis O'Hara Jr

TRANSPORTER DELIVERY SCHEDULE

1. DATE OF THE DELIVERY 10-18-90
2. TIME OF THE DELIVERY A.M. P.M.
3. DRIVER'S NAME O'HARA
4. DRIVER'S SIGNATURE Louis O'Hara Jr
5. DELIVERY IN CONTAINER TYPE TRAILER ID NO.
6. IDENTIFICATION OF WASTE MUST BE THE SAME AS GENERATOR IDENTIFICATION YES X NO

DISPOSAL FACILITY — A.H. LANDFILL

1. DELIVERY RECEIVED DATE 10-17-90
2. TIME OF DELIVERY A.M. P.M.
3. A.H. SUPERVISOR INSPECTOR NAME Mike Fowler
4. INSPECTOR SIGNATURE
5. THE LOAD WAS RECEIVED AS STATED BY THE GENERATOR YES AAA NO
6. REJECTED LOAD — YES NO AAA

IF YES PLEASE REMARK

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INSTRUCTIONS

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DISPOSAL FACILITY — Filed in customer - generator master file.

(1) Disposal Facility Copy *(2) Generator's Copy* *(3) Transporter's Copy*

5045

12080

46220

50400

G 108700

T 33260

N. 75440

37.7

ALL AMERICAN AUTO/TRUCK PLAZA

Rt. 11 Turnpike Exit 16
1-81 Exit 17
Carlisle, PA 17013
Phone (717) 249-1919

1. Insert ticket to this line.

$1.00 Per Axle

Restaurant
Garage

AMOCO

Private Showers
Store

ATHENS HOCKING LANDFILL WASTE MANIFEST

CUSTOMER HAULER

PLEASE TYPE OR PRINT CLEARLY USING A BALLPOINT PEN — PRESS HARD

DOCUMENT NO. A.H. Nº 5045

GENERATOR NAME

1. JIMMY BYRNE NYS DEC 1A-206

GENERATOR ADDRESS — FOR THE SERVICE LOCATION

1. 65 GLEN COVE AVENUE GLEN COVE, NEW YORK
2.
3.

GENERATOR CONTACT SUPERVISOR — SERVICE LOCATION

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area Code (516) - 671-7799
3. DATE SHIPPED FROM SERVICE LOCATION 10-17-90
4. TIME SHIPPED FROM SERVICE LOCATION A.M. P.M.
5. GENERATOR SIGNATURE

GENERATOR IDENTIFICATION OF WASTE TYPE OR TYPES.

1. ITEM TYPE NA16 - CONTAMINATED SOIL
2. ITEM TYPE SPARTAN PETRO SERVICE STATION
3. ITEM TYPE 4TH AVENUE & FIRST STREET
4. ITEM TYPE BROOKLIN, NEW YORK
5. QUANTITY — CHECK ONE (✓) CUBIC YARDS N/A TONS 37.72. OTHER
6. SHIPPED IN CONTAINER TYPE TRAILER ID NO.

TRANSPORTER NAME AND ADDRESS

1. JIMMY BYRNE
2. 7 CARLISLE DRIVE
3. OLD BROOKVILLE, N.Y. 11545
4.

TRANSPORTER CONTACT SUPERVISOR

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area code (516) - 671-7799
3. DATE OF THE LOAD PICKUP 10-17-90
4. TIME OF THE LOAD PICKUP A.M. P.M.
5. GENERATOR SERVICE LOCATION SAME
6. DRIVER'S NAME KRISNIA
7. DRIVER'S SIGNATURE

TRANSPORTER DELIVERY SCHEDULE

1. DATE OF THE DELIVERY 10-17-90
2. TIME OF THE DELIVERY A.M. P.M.
3. DRIVER'S NAME KRISNIA
4. DRIVER'S SIGNATURE
5. DELIVERY IN CONTAINER TYPE TRAILER ID NO.
6. IDENTIFICATION OF WASTE MUST BE THE SAME AS GENERATOR IDENTIFICATION YES X NO

DISPOSAL FACILITY — A.H. LANDFILL

1. DELIVERY RECEIVED DATE 10-17-90
2. TIME OF DELIVERY A.M. P.M.
3. A.H. SUPERVISOR INSPECTOR NAME MIKE HUNKIN
4. INSPECTOR SIGNATURE
5. THE LOAD WAS RECEIVED AS STATED BY THE GENERATOR YES XXX NO
6. REJECTED LOAD — YES NO XXX

IF YES PLEASE REMARK

GENERATOR'S CERTIFICATION. This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S.E.P.A. and the Ohio D.E.R. THE WASTE DESCRIBED ABOVE WAS APPROVED FOR DISPOSAL AT A.H. LANDFILL, BASED ON THE AGREEMENT BETWEEN BOTH THE GENERATOR AND THE DISPOSAL FACILITY. I certify that the foregoing is true and correct to the best of my knowledge. If the waste shipment is not as stated I accept the RETURN of the COMPLETE LOAD to the generator's service location, at the generator's expense.

INSTRUCTIONS

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TRANSPORTER'S COPY — Given to the transporter driver when shipment is inspected and unloaded.
DISPOSAL FACILITY — Filed in customer - generator master file.

(1) Disposal Facility Copy *(2) Generator's Copy* *(3) Transporter's Copy*

5044

10900

40080

44360

G 95340

T 31500

N. 63840

3192

ALL AMERICAN AUTO/TRUCK PLAZA

Rt. 11 Turnpike Exit 16
1-81 Exit 17
Carlisle, PA 17013
Phone (717) 249-1919

1. Insert ticket to this line.

$1.00 Per Axle

Restaurant
Garage

Private Showers
Store

ATHENS HOCKING LANDFILL WASTE MANIFEST

CUSTOMER HAULER

PLEASE TYPE OR PRINT CLEARLY USING A BALLPOINT PEN — PRESS HARD

DOCUMENT NO. A.H. **Nº 5044**

GENERATOR NAME

1. JIMMY BYRNE NYS DEC 1A-206

GENERATOR ADDRESS — FOR THE SERVICE LOCATION

1. 65 GLEN COVE AVENUE GLEN COVE, NEW YORK
2.
3.

GENERATOR CONTACT SUPERVISOR — SERVICE LOCATION

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area Code (516) - 671-7799
3. DATE SHIPPED FROM SERVICE LOCATION 10-15-90
4. TIME SHIPPED FROM SERVICE LOCATION A.M. P.M.
5. GENERATOR SIGNATURE

GENERATOR IDENTIFICATION OF WASTE TYPE OR TYPES.

1. ITEM TYPE NRLS - CONTAMINATED SOIL
2. ITEM TYPE SPARTAN PETRO SERVICE STATION
3. ITEM TYPE 4TH AVENUE & FIRST STREET
4. ITEM TYPE BROOKLYN, NEW YORK
5. QUANTITY — CHECK ONE (✓) CUBIC YARDS N/A TONS 31.92 OTHER
6. SHIPPED IN CONTAINER TYPE TRAILER ID NO.

TRANSPORTER NAME AND ADDRESS

1. JIMMY BYRNE
2. 7 CARLISLE DRIVE
3. OLD BROOKVILLE, N.Y. 11545
4.

TRANSPORTER CONTACT SUPERVISOR

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area code (516) - 671-7799
3. DATE OF THE LOAD PICKUP 10-15-90
4. TIME OF THE LOAD PICKUP A.M. P.M.
5. GENERATOR SERVICE LOCATION SAME
6. DRIVER'S NAME RUSS KIGHT
7. DRIVER'S SIGNATURE Ronald Rizzuto

TRANSPORTER DELIVERY SCHEDULE

1. DATE OF THE DELIVERY 10/16/90
2. TIME OF THE DELIVERY A.M. P.M.
3. DRIVER'S NAME RUSS KIGHT
4. DRIVER'S SIGNATURE Ronald Rizzuto
5. DELIVERY IN CONTAINER TYPE TRAILER ID NO.
6. IDENTIFICATION OF WASTE MUST BE THE SAME AS GENERATOR IDENTIFICATION YES X NO

DISPOSAL FACILITY — A.H. LANDFILL

1. DELIVERY RECEIVED DATE 10-16-90
2. TIME OF DELIVERY A.M. P.M.
3. A.H. SUPERVISOR INSPECTOR NAME MIKE KUNKLE
4. INSPECTOR SIGNATURE
5. THE LOAD WAS RECEIVED AS STATED BY THE GENERATOR YES XXX NO
6. REJECTED LOAD — YES NO XXX

IF YES PLEASE REMARK

GENERATOR'S CERTIFICATION. This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S.E.P.A. and the Ohio D.E.R. THE WASTE DESCRIBED ABOVE WAS APPROVED FOR DISPOSAL AT A.H. LANDFILL, BASED ON THE AGREEMENT BETWEEN BOTH THE GENERATOR AND THE DISPOSAL FACILITY. I certify that the foregoing is true and correct to the best of my knowledge. If the waste shipment is not as stated I accept the RETURN of the COMPLETE LOAD to the generator's service location, at the generator's expense.

INSTRUCTIONS

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TRANSPORTER'S COPY — Given to the transporter driver when shipment is inspected and unloaded.

DISPOSAL FACILITY — Filed in customer - generator master file.

5:43

12060

46300

52280

G 110640

T 31380

N 79260

39.63

ALL AMERICAN AUTO/TRUCK PLAZA

Rt. 11 Turnpike Exit 16
1-81 Exit 17
Carlisle, PA 17013
Phone (717) 249-1919

1. Insert ticket to this line.

$1.00 Per Axle

Restaurant
Garage

AMOCO

Private Showers
Store

ATHENS HOCKING LANDFILL WASTE MANIFEST

CUSTOMER HAULER

PLEASE TYPE OR PRINT CLEARLY USING A BALLPOINT PEN — PRESS HARD

DOCUMENT NO. A.H. Nº 5043

GENERATOR NAME

1. JIMMY BYRNE NYS DEC 1A-206

GENERATOR ADDRESS — FOR THE SERVICE LOCATION

1. 65 GLEN COVE AVENUE GLEN COVE, NEW YORK
2.
3.

GENERATOR CONTACT SUPERVISOR — SERVICE LOCATION

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area Code (516) - 671-7799
3. DATE SHIPPED FROM SERVICE LOCATION 10-15-90
4. TIME SHIPPED FROM SERVICE LOCATION A.M. P.M.
5. GENERATOR SIGNATURE

GENERATOR IDENTIFICATION OF WASTE TYPE OR TYPES.

1. ITEM TYPE N516 - CONTAMINATED SOIL
2. ITEM TYPE SPARTAN PETRO SERVICE STATION
3. ITEM TYPE 4TH AVENUE & FIRST STREET
4. ITEM TYPE BROOKLYN, NEW YORK
5. QUANTITY — CHECK ONE (✓) CUBIC YARDS N/A TONS 39.63 OTHER
6. SHIPPED IN CONTAINER TYPE TRAILER ID NO.

TRANSPORTER NAME AND ADDRESS

1. JIMMY BYRNE
2. 7 CARLISLE DRIVE
3. OLD BROOKVILLE, N.Y. 11545
4.

TRANSPORTER CONTACT SUPERVISOR

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area code (516) - 671-7799
3. DATE OF THE LOAD PICKUP 10-15-90
4. TIME OF THE LOAD PICKUP A.M. P.M.
5. GENERATOR SERVICE LOCATION SAME
6. DRIVER'S NAME SPEEDMAN
7. DRIVER'S SIGNATURE Rich Speedman

TRANSPORTER DELIVERY SCHEDULE

1. DATE OF THE DELIVERY 10-16-90
2. TIME OF THE DELIVERY A.M. P.M.
3. DRIVER'S NAME SPEEDMAN
4. DRIVER'S SIGNATURE Rich Speedman
5. DELIVERY IN CONTAINER TYPE TRAILER ID NO.
6. IDENTIFICATION OF WASTE MUST BE THE SAME AS GENERATOR IDENTIFICATION YES X NO

DISPOSAL FACILITY — A.H. LANDFILL

1. DELIVERY RECEIVED DATE 10-15-90
2. TIME OF DELIVERY A.M. P.M.
3. A.H. SUPERVISOR INSPECTOR NAME MICK KUNKLER
4. INSPECTOR SIGNATURE
5. THE LOAD WAS RECEIVED AS STATED BY THE GENERATOR YES XXX NO
6. REJECTED LOAD — YES NO XXX

IF YES PLEASE REMARK

GENERATOR'S CERTIFICATION. This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S.E.P.A. and the Ohio D.E.R. THE WASTE DESCRIBED ABOVE WAS APPROVED FOR DISPOSAL AT A.H. LANDFILL, BASED ON THE AGREEMENT BETWEEN BOTH THE GENERATOR AND THE DISPOSAL FACILITY. I certify that the foregoing is true and correct to the best of my knowledge. If the waste shipment is not as stated I accept the RETURN of the COMPLETE LOAD to the generator's service location, at the generator's expense.

INSTRUCTIONS

GENERATOR'S COPY — Mailed from A.H., Inc. after disposal process, and with the monthly billing.
TRANSPORTER'S COPY — Given to the transporter driver when shipment is inspected and unloaded.
DISPOSAL FACILITY — Filed in customer - generator master file.

(1) Disposal Facility Copy *(2) Generator's Copy* *(3) Transporter's Copy*

5042

12480

43320

47800

G 103600

T 30500

N 73100

36.55

ALL AMERICAN AUTO/TRUCK PLAZA

Rt. 11 Turnpike Exit 16
1-81 Exit 17
Carlisle, PA 17013
Phone (717) 249-1919

1. Insert ticket to this line.

$1.00 Per Axle

Restaurant
Garage

AMOCO

Private Showers
Store

ATHENS HOCKING LANDFILL WASTE MANIFEST

CUSTOMER HAULER

PLEASE TYPE OR PRINT CLEARLY USING A BALLPOINT PEN — PRESS HARD

DOCUMENT NO. A.H. No. 5042

GENERATOR NAME

1. JIMMY BYRNE NYS DEC 1A-206

GENERATOR ADDRESS — FOR THE SERVICE LOCATION

1. 65 GLEN COVE AVENUE GLEN COVE, NEW YORK
2.
3.

GENERATOR CONTACT SUPERVISOR — SERVICE LOCATION

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area Code (516) - 671-7799
3. DATE SHIPPED FROM SERVICE LOCATION 10-12-90
4. TIME SHIPPED FROM SERVICE LOCATION A.M. P.M.
5. GENERATOR SIGNATURE

GENERATOR IDENTIFICATION OF WASTE TYPE OR TYPES.

1. ITEM TYPE 0615 - CONTAMINATED SOIL
2. ITEM TYPE SPARTAN PETRO SERVICE STATION
3. ITEM TYPE 4TH AVENUE & FIRST STREET
4. ITEM TYPE BROOKLYN, NEW YORK
5. QUANTITY — CHECK ONE (✓) CUBIC YARDS N/A TONS 36.55 OTHER
6. SHIPPED IN CONTAINER TYPE TRAILER ID NO.

TRANSPORTER NAME AND ADDRESS

1. JIMMY BYRNE
2. 7 CARLISLE DRIVE
3. OLD BROOKVILLE, N.Y. 11545
4.

TRANSPORTER CONTACT SUPERVISOR

1. NAME JIMMY BYRNE TITLE OWNER
2. PHONE NUMBER — Area code (516) - 671-7799
3. DATE OF THE LOAD PICKUP 10/12/90
4. TIME OF THE LOAD PICKUP A.M. P.M.
5. GENERATOR SERVICE LOCATION SAME
6. DRIVER'S NAME [illegible]
7. DRIVER'S SIGNATURE [signature]

TRANSPORTER DELIVERY SCHEDULE

1. DATE OF THE DELIVERY 10/16/90
2. TIME OF THE DELIVERY A.M. P.M.
3. DRIVER'S NAME [illegible]
4. DRIVER'S SIGNATURE [signature]
5. DELIVERY IN CONTAINER TYPE TRAILER ID NO.
6. IDENTIFICATION OF WASTE MUST BE THE SAME AS GENERATOR IDENTIFICATION YES ✓ NO

DISPOSAL FACILITY — A.H. LANDFILL

1. DELIVERY RECEIVED DATE 10/16/90
2. TIME OF DELIVERY A.M. P.M.
3. A.H. SUPERVISOR INSPECTOR NAME [illegible]
4. INSPECTOR SIGNATURE [signature]
5. THE LOAD WAS RECEIVED AS STATED BY THE GENERATOR YES N/A NO
6. REJECTED LOAD — YES NO N/A

IF YES PLEASE REMARK

GENERATOR'S CERTIFICATION. This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S.E.P.A. and the Ohio D.E.R. THE WASTE DESCRIBED ABOVE WAS APPROVED FOR DISPOSAL AT A.H. LANDFILL, BASED ON THE AGREEMENT BETWEEN BOTH THE GENERATOR AND THE DISPOSAL FACILITY. I certify that the foregoing is true and correct to the best of my knowledge. If the waste shipment is not as stated I accept the RETURN of the COMPLETE LOAD to the generator's service location, at the generator's expense.

INSTRUCTIONS

GENERATOR'S COPY — Mailed from A.H., Inc. after disposal process, and with the monthly billing.

TRANSPORTER'S COPY — Given to the transporter driver when shipment is inspected and unloaded.

DISPOSAL FACILITY — Filed in customer - generator master file.

(1) Disposal Facility Copy (2) Generator's Copy (3) Transporter's Copy

ACKNOWLEDGEMENT OF NOTIFICATION

OF HAZARDOUS WASTE ACTIVITY

10/01/90

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act *(RCRA)*. Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPA I.D. NUMBER ->	NYD986914133
FACILITY NAME ->	SPARTAN PETROLEUM
MAILING ADDRESS ->	1158 BROADWAY HEWLETT, NY 11557
INSTALLATION ADDRESS ->	275 FOURTH AVE & FIRST ST BROOKLYN, NY 11201

EPA Form 8700-12AB (4-80)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II
26 FEDERAL PLAZA
NEW YORK, NEW YORK 10278

ATTN: PERMITS ADMINISTRATION BRANCH, ROOM 505

TO: CARILLO AL
SPARTAN PETROLEUM
1158 BROADWAY
HEWLETT, NY 11557

Larry E. Tyree Co., Inc.

401 E. 84th ST. • NEW YORK, N.Y. 10022
SUITE 21A

GASOLINE TANK AND
PUMP INSTALLATIONS

SERVICE STATION
CONSTRUCTION

New York City Fire Department
250 Livingston Street
Room 412/413
Brooklyn, N.Y. 11201

Attn: Ms. L. Thompson
Buried Tank Unit

Re: CLOSED F/S
275 4th Ave
BROOKLYN N.Y.

Dear Ms. Thompson:

On 9/18/90 - 9/20/90 Larry E. Tyree Co., Inc. (License #61178273) pumped all volatile liquids from 12-550 GAL 1-550 M/O 1-550 S/O gallon (14 TOTAL) tank(s) and purged the tank(s) and lines of explosive vapors and subsequently removed same tank(s).

If you have any further questions concerning this matter, feel free to contact this office.

Sincerely,

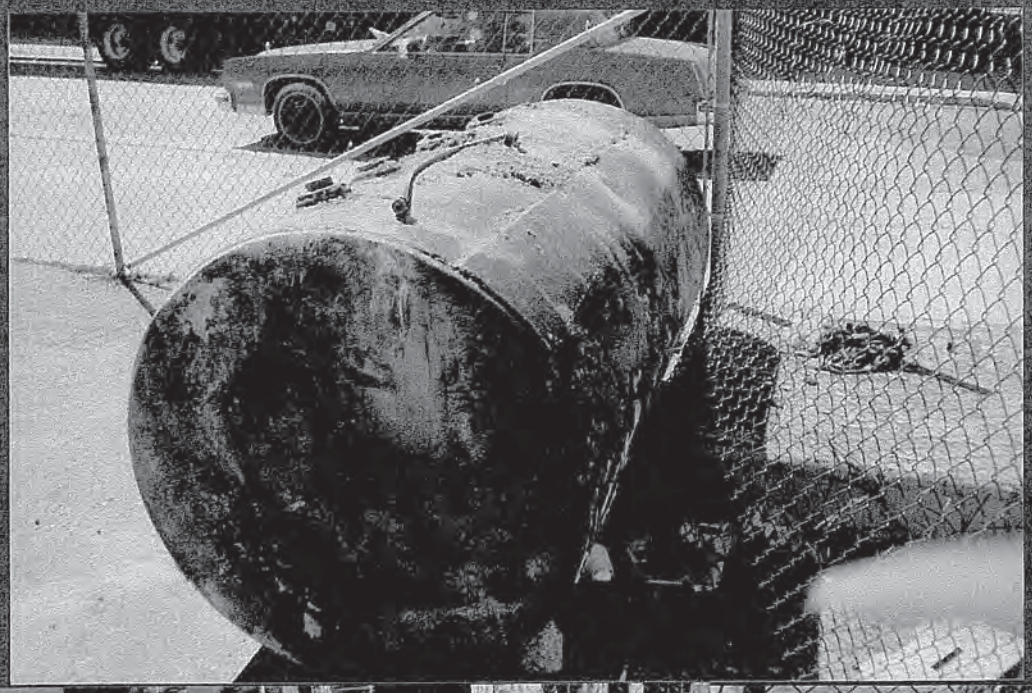
Larry E. Tyree Co., Inc.

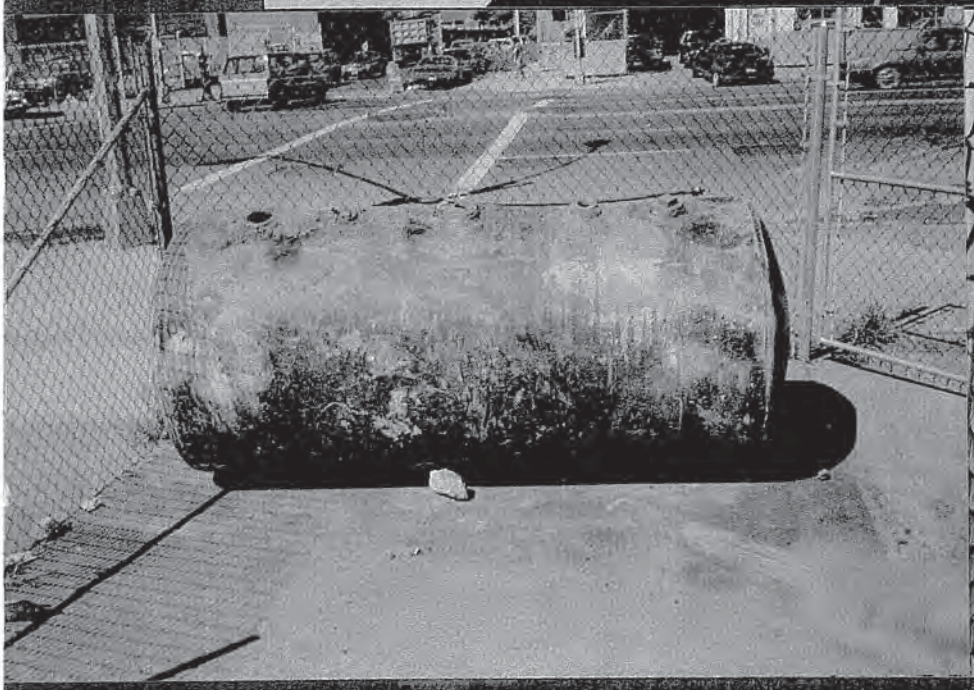
County of Suffolk
State of New York

Sworn to before me
this 21st day of September 1990 1989.

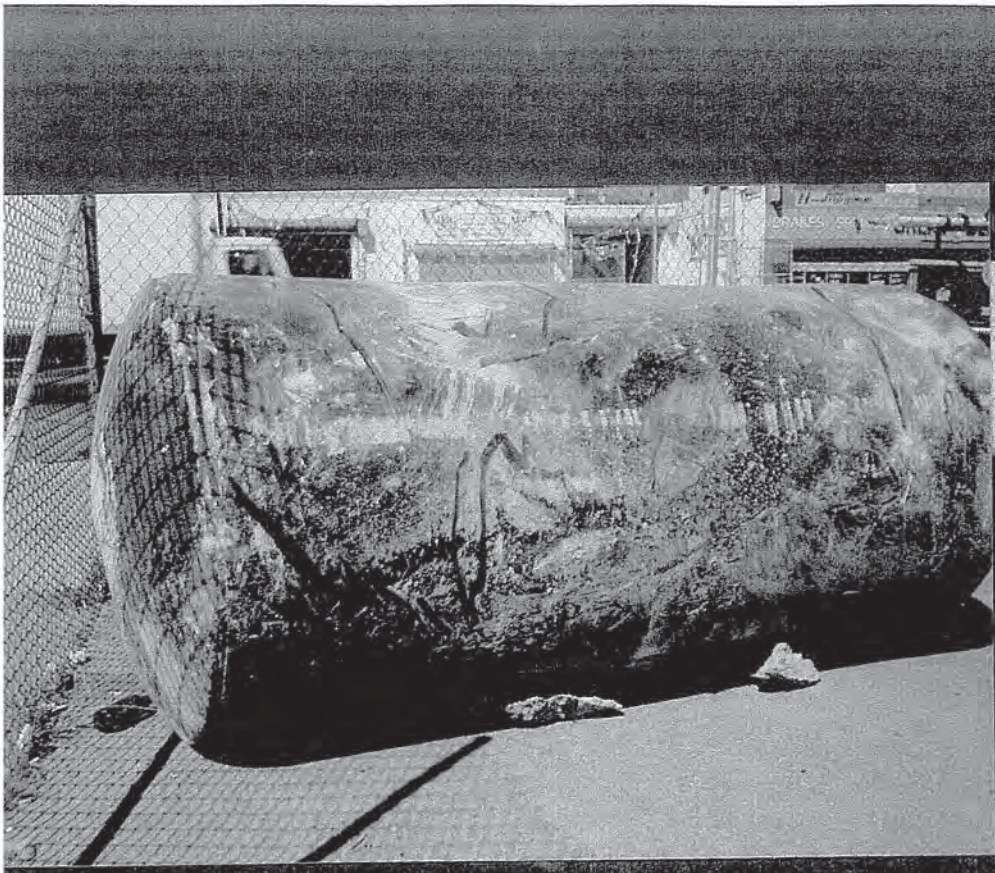
Ellen Penna

ELLEN PENNA
NOTARY PUBLIC, State of New York
No. 30-4621570
Qualified in Nassau County
Commission Expires June 30, 1991

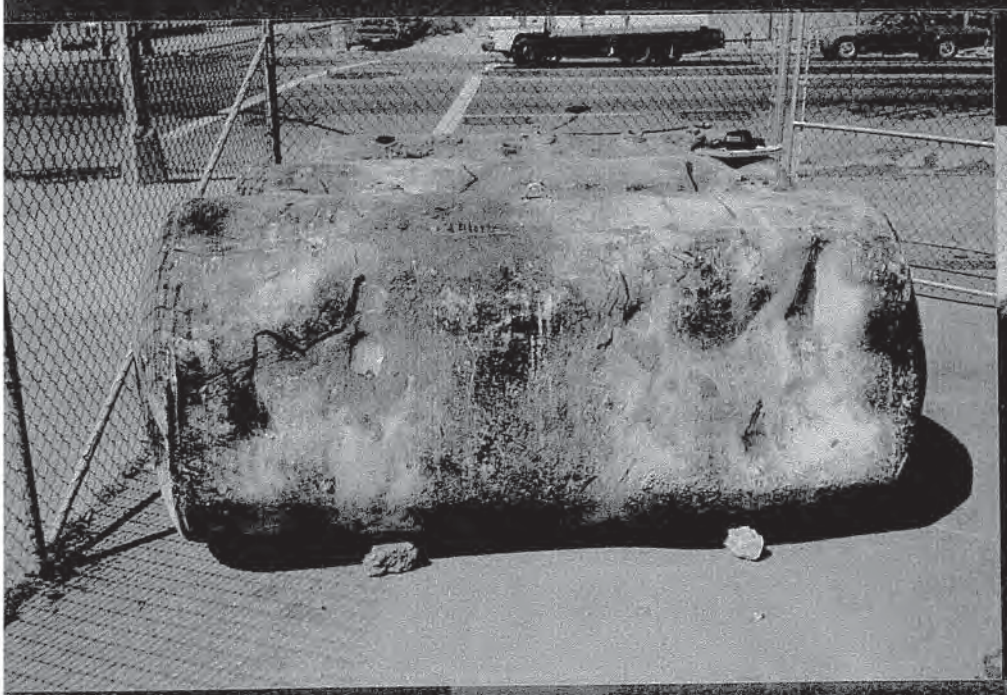




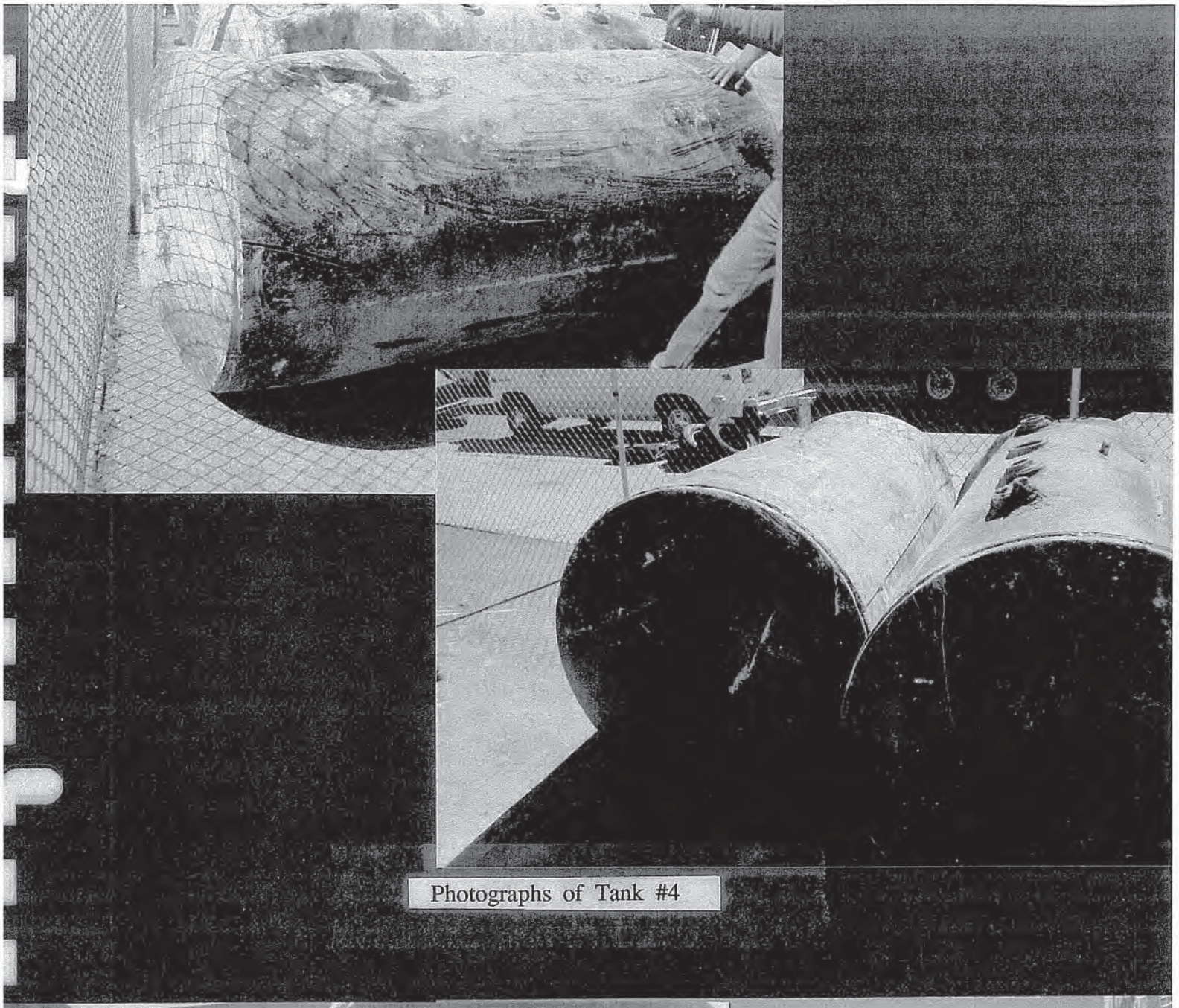
Photographs of Tank #1



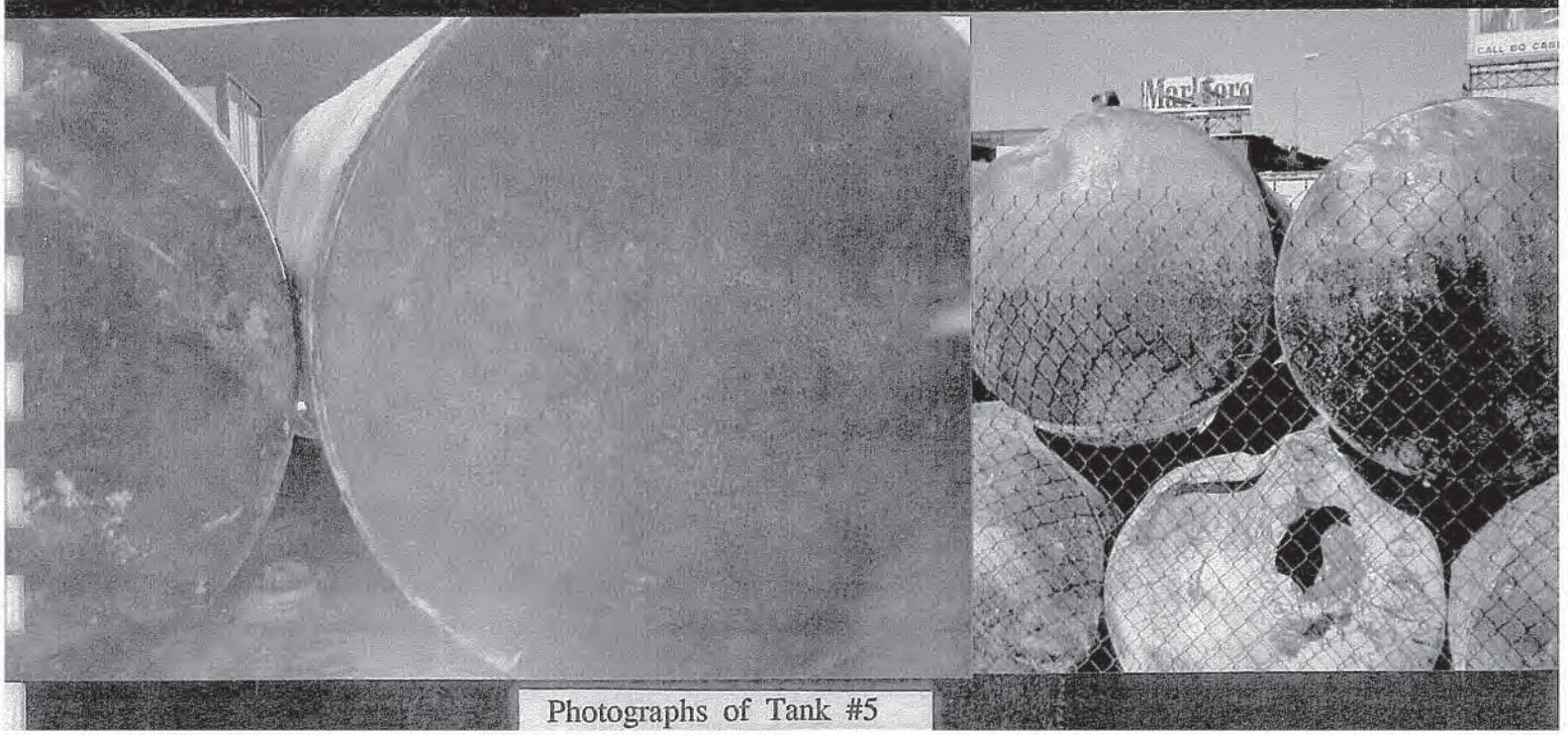
Photographs of Tank #2



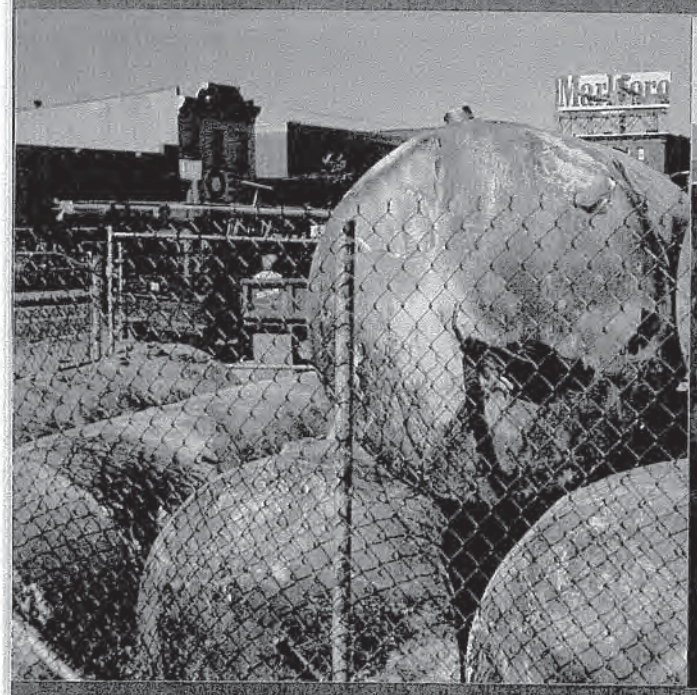
Photographs of Tank #3



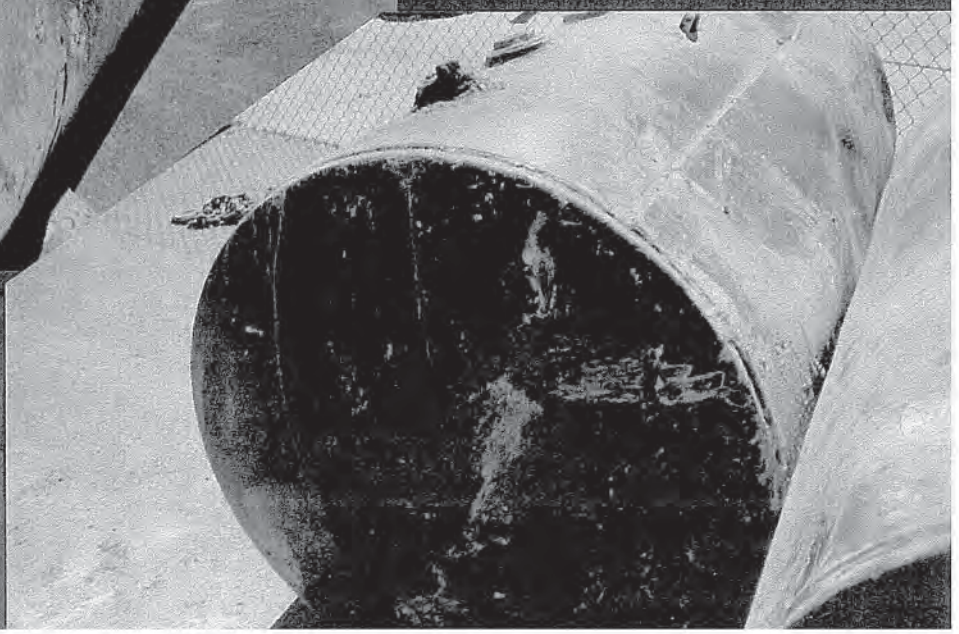
Photographs of Tank #4



Photographs of Tank #5



Photographs of Tank #6

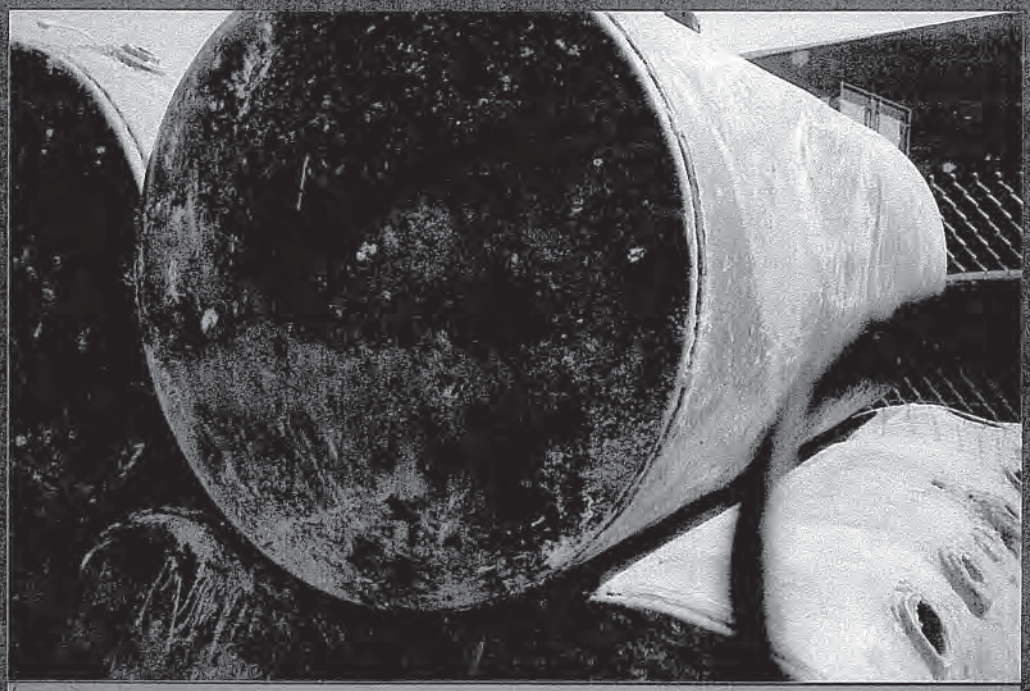


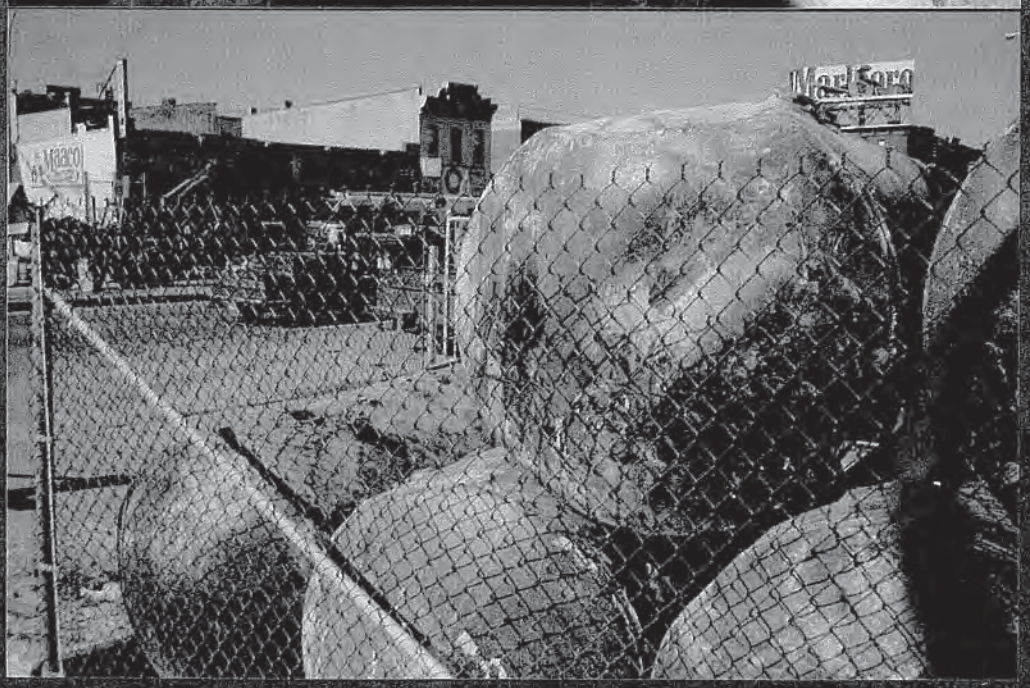
Photographs of Tank #7

Photographs of Tank #8

Photographs of Tank #9

Photographs of Tank #10





Photographs of Tank #11

Photographs of Tank #12

Photographs of the Fuel Oil Tank

Photographs of the Waste Oil Tank

Photograph of the Gasoline Tanks Excavation (looking east)

Photograph of the Gasoline Tanks Excavation (looking west)

Tyree Brothers Environmental Services, Inc.
208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-3281 · Phone: 516-249-3150

March 15, 1995.

Odessa Oil Corporation
1158 Broadway
Hewlett, New York 11558
Attn: Hank Alpert

Re: McDonald's Restaurant
281 4th Avenue
Brooklyn, New York

Dear Mr. Alpert:

As per your request, the following is an overview of environmental activities that have been performed at the above-referenced site. In September 1990, twelve 550-gallon gasoline tanks, one 550-gallon waste oil tank, and one 550-gallon fuel oil tank were excavated from the closed gasoline service station on site. Gasoline odors and petroleum contamination were noted in the soil of the excavations. Approximately 219 tons of contaminated soil were removed from the site. Three (3) groundwater monitoring wells were also installed at that time. Sampling indicated that groundwater was contaminated at levels that exceeded drinking water standards.

In October 1993, the wells were monitored and sampled. The property was operating as a Safelite Auto repair shop at that time. No free-floating product was noted. Sampling indicated that groundwater was still contaminated at levels exceeding standards.

During reconstruction of the property in May 1994, six additional 550-gallon tanks and two 275-gallon tanks were discovered and removed. Approximately 343 tons of petroleum contaminated soil were also removed and disposed of at that time. A Soil Vapor Extraction System (SVES) was installed during the reconstruction of the site in order to remediate the on-site

contamination. Horizontal slotted piping was installed in the southern and middle areas of the property. The cost of the SVES installation including permits and electric was $22,785.

The SVES was put into operation in January 1995 after the Air 100 permit had been received from the NYSDEC and all construction had been completed. Air samples are currently obtained on a monthly basis in conformance with the effluent permit. Monthly maintenance is also performed on the system.

The soil is expected to be remediated within approximately three years. Operation and maintenance costs for the three year period are expected to be approximately $21,000. It should be noted that all of the previously existing monitoring wells were destroyed during the reconstruction of the site. Therefore, at the time of closure, a Geoprobe survey will be performed to confirm that the site has been remediated to acceptable levels. The cost of the Geoprobe survey will be approximately $4,750. The results of the Geoprobe survey will be reviewed to determine if any further work will be required.

If you have questions regarding any of the above information, please feel free to contact the undersigned.

Sincerely,

Dawn M. Medaglia

Dawn M. Medaglia
Hydrogeologist/Project Manager

DMM/sg

Impact Environmental

Semi-Annual Monitoring Report

Former Odessa Oil Corp Service Station
281 4th Avenue
Brooklyn, New York

Appendix B
Soil Boring Logs

SOIL BORING LOG

Client: Heron Real Estate Corp.		Boring No.: SB-01	Impact Environmental 170 Keyland Court Bohemia, NY 11716 (631) 269-8800
Project # : 06-028		Sheet 1 of 1	
Site Location: 281 4th Avenue, Brooklyn, New York		Date: 6/20/2013	
Drilling Co: Impact Environmental Closures, Inc.		*FORMAT FOR CHARACTERIZATION*	
Method: Hand Auger System		**Ex.1:** brown, loose F SILTY-SAND, with some C Gravel	
Personnel: Evan Perigard/Kurt Pfaffenberger		**Ex.2:** grey & brown mottled soft CLAY and brown F SAND, with trace organics	
Total Depth: 12	Depth to Water: Approx 11.5 ft BLS		

depth (feet)	PID (ppmv)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery (inches)	Soil Classification	Remarks
1								Pre-Cleared to 5 ft. BEG using air knife and vacuum methods and equipment
2								
3								
4								
5								
6	1.8	N/A		5ft-6ft	Dry	N/A	Light brown to reddish-brown M/F poorly sorted SAND with some SILT.	
7	2.6	N/A		6ft-7ft	Dry	N/A	Reddish-brown to light brown F SILTY-SAND to SANDY-SILTwith trace clay.	
8	2.4	N/A		7ft-8ft	Moist	N/A	Reddish-brown to light brown F SILTY-SAND to SANDY-SILTwith trace clay.	
9	6.1	N/A		8ft-9ft	Moist	N/A	Reddish-brown to light brown F SILTY-SAND to SANDY-SILTwith trace clay.	
10	7.1	N/A		9ft-10ft	Wet	N/A	Reddish-brown to light brown F SILTY-SAND to SANDY-SILTwith trace clay.	Slight Odors observed.
11	**41.6**	N/A		10ft-11ft	Moist	N/A	Light gray to greenish-gray (stained) M/F poorly sorted SAND with some SILT and gravel.	Strong Odors and apparent stained soil observed.
12	**221.7**	N/A	**SB-01**	11ft-12ft	Wet	N/A	Dark gray to greenish-gray (stained) M/F poorly sorted SAND with some SILT and gravel.	Strong Odors and apparent stained soil observed. Water table at 11.5 ft. BEG
13								**Notes:** Sample SB-01 collected between 11 and 11.5 ft BEG. Estimated water table depth encountered during boring work at 11.5 ft. BEG.
14								
15								

Impact Environmental

Semi-Annual Monitoring Report

Former Odessa Oil Corp Service Station
281 4th Avenue
Brooklyn, New York

Appendix C
Quality Assurance and Quality Control Procedures (QA/QC)

APPENDIX C:

Quality Assurance and Quality Control Procedures (QA/QC)

The following sampling QA/QC protocol is in accordance with the United States Environmental Protection Agency's (USEPA) accepted sampling procedures for hazardous waste streams [Municipal Research Laboratory, 1980, Sampling and Analysis Procedures for Hazardous Material Waste Streams, Office of Emergency and Remedial Response, Cincinnati, Ohio. EPA-600/280-018] and American Society of Testing and Material's (ASTM's) Sampling Procedures.

Sampling Personnel

The activities associated with the survey, sampling and analysis plan were performed by or under the auspices of a USEPA Office of Emergency and Remedial Response, Certified Sampler for Hazardous Materials. The sample staff (samplers) possessed a minimum of a B.A. Degree in the Earth, Space or Biological Sciences or a B.S. Degree in Engineering. Samplers had a minimum of one (1) year experience in environmental/geological field work. Additionally, all samplers had received mandatory forty-hour Occupational Safety and Health Administration (OSHA) training on working with potentially hazardous materials and appropriate Hazard Communication Program and "Right-To-Know" training.

Sampling Equipment

Separate QA/QC measures were implemented for each of the instruments used in the performance of the SAP.

Geoprobe

Prior to arrival on the Site and between sample locations, the probes were decontaminated by washing them with a detergent (Alconox) and potable water solution and rinsing them with distilled water.

Photo Ionization Detector

Calibration of the PID was conducted prior to sampling using a span gas of known concentration. The PID was a Photovac Micro-Tip, photo ionization detection meter.

Sample Vessels

All sample vessels were "level A" certified decontaminated containers supplied by a New York State Certified Commercial Laboratory. Samples analyzed for hydrocarbons were placed in containers with Teflon lined caps. All samples were preserved by cooling them to a temperature of approximately four degrees Celsius.

Sample Documentation

A sample represents physical evidence. An essential part of liability reduction is the proper control of gathered evidence. To establish proper control, the following sample identification and chain-of custody procedures were followed.

Sample Identification

Sample identification was executed by use of a sample tag, log book and chain-of-custody form. Said documentation provided the following information: 1) the project code; 2) the sample laboratory number; 3) the sample preservation; 4) instrument used for source sample grabs; 5) the composite medium used for source sample grabs; 6) the date the sample was secured from the source media; 7) the time the sample was secured from the source media; and 8) the person who secured the sample from the source media.

Chain-of-Custody Procedures

Due to the evidential nature of samples, possession was traceable from the time the samples were collected until they were received by the testing laboratory. A sample was considered under custody if it: was in a person's possession; it was in a person's view, after being in possession; if it was in a person's possession and they locked it up; or, it was in a designated secure area. When transferring custody, the individuals relinquishing and receiving the samples signed, dated and noted the time on the Chain-of-Custody Form.

Laboratory-Custody Procedures

A designated sample custodian accepted custody of the shipped samples and verified that the information on the sample tags matched that on the Chain-of-Custody Records. Pertinent information as to shipment, pick-up, courier, etc., were entered in the "remarks" section. The custodian entered the sample tag data into a bound logbook.

The laboratory custodian used the sample tag number, or assigned a unique laboratory number to each sample tag, and assured that all samples were transferred to the proper analyst or stored in the appropriate source area. The laboratory custodian distributed samples to the appropriate analysts. Laboratory personnel were responsible for the care and custody of samples, from the time they were received, until the sample was exhausted or returned to the sample custodian. All identifying data sheets and laboratory records were retained as part of the permanent documentation. Samples received by the laboratory were retained until after analysis and quality assurance checks were completed.

Impact Environmental

Semi-Annual Monitoring Report

Former Odessa Oil Corp Service Station
281 4th Avenue
Brooklyn, New York

Appendix D
Laboratory Analytical Reports

ANALYTICAL REPORT

Lab Number:	L1311474
Client:	Impact Environmental 170 Keyland Ct Bohemia, NY 11716
ATTN:	Michael Bluight
Phone:	(631) 269-8800
Project Name:	06-028
Project Number:	06-028
Report Date:	06/28/13

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: 06-028
Project Number: 06-028

Lab Number: L1311474
Report Date: 06/28/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1311474-01	SB-01	281 4TH AVE., BROOKLYN, NY	06/20/13 11:00

Project Name: 06-028
Project Number: 06-028

Lab Number: L1311474
Report Date: 06/28/13

Case Narrative

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

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

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

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

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

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

Project Name: 06-028 **Lab Number:** L1311474
Project Number: 06-028 **Report Date:** 06/28/13

Case Narrative (continued)

Report Submission

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

Volatile Organics

Any reported concentrations that are below 200ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications

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: Elizabeth Simmons

Title: Technical Director/Representative Date: 06/28/13

ORGANICS

VOLATILES

Project Name: 06-028 **Lab Number:** L1311474

Project Number: 06-028 **Report Date:** 06/28/13

SAMPLE RESULTS

Lab ID:	L1311474-01	Date Collected:	06/20/13 11:00
Client ID:	SB-01	Date Received:	06/21/13
Sample Location:	281 4TH AVE., BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	06/28/13 07:47		
Analyst:	BN		
Percent Solids:	72%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	2.8		ug/kg	1.4	0.16	1
Toluene	1.3	J	ug/kg	2.1	0.15	1
Ethylbenzene	0.60	J	ug/kg	1.4	0.20	1
Methyl tert butyl ether	0.77	J	ug/kg	2.8	0.14	1
p/m-Xylene	1.5	J	ug/kg	2.8	0.44	1
o-Xylene	0.45	J	ug/kg	2.8	0.37	1
n-Butylbenzene	ND		ug/kg	1.4	0.27	1
sec-Butylbenzene	0.62	J	ug/kg	1.4	0.28	1
tert-Butylbenzene	ND		ug/kg	6.9	0.77	1
Isopropylbenzene	0.40	J	ug/kg	1.4	0.23	1
p-Isopropyltoluene	0.29	J	ug/kg	1.4	0.26	1
Naphthalene	ND		ug/kg	6.9	1.1	1
n-Propylbenzene	0.47	J	ug/kg	1.4	0.17	1
1,3,5-Trimethylbenzene	0.36	J	ug/kg	6.9	0.20	1
1,2,4-Trimethylbenzene	1.1	J	ug/kg	6.9	0.79	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	98		70-130

Project Name: 06-028 **Lab Number:** L1311474

Project Number: 06-028 **Report Date:** 06/28/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/28/13 07:19
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG618366-3					
Benzene	ND		ug/kg	1.0	0.12
Toluene	0.22	J	ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
n-Butylbenzene	ND		ug/kg	1.0	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 06-028

Project Number: 06-028

Lab Number: L1311474

Report Date: 06/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG618366-1 WG618366-2								
Methylene chloride	95		97		70-130	2		30
1,1-Dichloroethane	100		101		70-130	1		30
Chloroform	100		101		70-130	1		30
Carbon tetrachloride	107		104		70-130	3		30
1,2-Dichloropropane	97		99		70-130	2		30
Dibromochloromethane	100		100		70-130	0		30
2-Chloroethylvinyl ether	92		92			0		30
1,1,2-Trichloroethane	97		98		70-130	1		30
Tetrachloroethene	106		103		70-130	3		30
Chlorobenzene	101		100		70-130	1		30
Trichlorofluoromethane	109		107		70-139	2		30
1,2-Dichloroethane	97		98		70-130	1		30
1,1,1-Trichloroethane	106		103		70-130	3		30
Bromodichloromethane	99		99		70-130	0		30
trans-1,3-Dichloropropene	99		100		70-130	1		30
cis-1,3-Dichloropropene	99		99		70-130	0		30
1,1-Dichloropropene	105		103		70-130	2		30
Bromoform	101		99		70-130	2		30
1,1,2,2-Tetrachloroethane	100		98		70-130	2		30
Benzene	100		99		70-130	1		30
Toluene	99		98		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 06-028
Project Number: 06-028

Lab Number: L1311474
Report Date: 06/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG618366-1 WG618366-2								
Ethylbenzene	103		101		70-130	2		30
Chloromethane	102		99		52-130	3		30
Bromomethane	95		93		57-147	2		30
Vinyl chloride	104		101		67-130	3		30
Chloroethane	104		100		50-151	4		30
1,1-Dichloroethene	106		104		65-135	2		30
trans-1,2-Dichloroethene	103		102		70-130	1		30
Trichloroethene	102		101		70-130	1		30
1,2-Dichlorobenzene	102		101		70-130	1		30
1,3-Dichlorobenzene	104		102		70-130	2		30
1,4-Dichlorobenzene	104		103		70-130	1		30
Methyl tert butyl ether	97		99		66-130	2		30
p/m-Xylene	103		101		70-130	2		30
o-Xylene	102		101		70-130	1		30
cis-1,2-Dichloroethene	100		100		70-130	0		30
Dibromomethane	98		99		70-130	1		30
Styrene	101		100		70-130	1		30
Dichlorodifluoromethane	109		106		30-146	3		30
Acetone	108		88		54-140	20		30
Carbon disulfide	102		100		59-130	2		30
2-Butanone	103		87		70-130	17		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 06-028
Project Number: 06-028

Lab Number: L1311474
Report Date: 06/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG618366-1 WG618366-2								
Vinyl acetate	96		98		70-130	2		30
4-Methyl-2-pentanone	94		94		70-130	0		30
1,2,3-Trichloropropane	99		97		68-130	2		30
2-Hexanone	100		86		70-130	15		30
Bromochloromethane	101		99		70-130	2		30
2,2-Dichloropropane	105		103		70-130	2		30
1,2-Dibromoethane	99		100		70-130	1		30
1,3-Dichloropropane	98		98		69-130	0		30
1,1,1,2-Tetrachloroethane	102		101		70-130	1		30
Bromobenzene	103		102		70-130	1		30
n-Butylbenzene	108		104		70-130	4		30
sec-Butylbenzene	108		104		70-130	4		30
tert-Butylbenzene	107		104		70-130	3		30
o-Chlorotoluene	105		103		70-130	2		30
p-Chlorotoluene	104		102		70-130	2		30
1,2-Dibromo-3-chloropropane	104		102		68-130	2		30
Hexachlorobutadiene	106		102		67-130	4		30
Isopropylbenzene	105		102		70-130	3		30
p-Isopropyltoluene	108		105		70-130	3		30
Naphthalene	99		99		70-130	0		30
Acrylonitrile	93		96		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 06-028

Project Number: 06-028

Lab Number: L1311474

Report Date: 06/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG618366-1 WG618366-2								
Isopropyl Ether	97		99		66-130	2		30
tert-Butyl Alcohol	91		94		70-130	3		30
n-Propylbenzene	106		102		70-130	4		30
1,2,3-Trichlorobenzene	101		100		70-130	1		30
1,2,4-Trichlorobenzene	104		104		70-130	0		30
1,3,5-Trimethylbenzene	106		103		70-130	3		30
1,2,4-Trimethylbenzene	105		103		70-130	2		30
Methyl Acetate	93		94		51-146	1		30
Ethyl Acetate	95		90		70-130	5		30
Acrolein	92		97		70-130	5		30
Cyclohexane	106		104		59-142	2		30
1,4-Dioxane	100		106		65-136	6		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	109		106		50-139	3		30
1,4-Diethylbenzene	106		105		70-130	1		30
4-Ethyltoluene	105		104		70-130	1		30
1,2,4,5-Tetramethylbenzene	102		103		70-130	1		30
Tetrahydrofuran	100		101		66-130	1		30
Ethyl ether	95		96		67-130	1		30
trans-1,4-Dichloro-2-butene	104		102		70-130	2		30
Methyl cyclohexane	108		104		70-130	4		30
Ethyl-Tert-Butyl-Ether	98		100		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 06-028
Project Number: 06-028

Lab Number: L1311474
Report Date: 06/28/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG618366-1 WG618366-2								
Tertiary-Amyl Methyl Ether	97		98		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		97		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	99		100		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: 06-028
Project Number: 06-028

Lab Number: L1311474
Report Date: 06/28/13

SAMPLE RESULTS

Lab ID: L1311474-01
Client ID: SB-01
Sample Location: 281 4TH AVE., BROOKLYN, NY
Matrix: Soil

Date Collected: 06/20/13 11:00
Date Received: 06/21/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.4		%	0.100	NA	1	-	06/24/13 21:34	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: 06-028
Project Number: 06-028

Lab Number: L1311474
Report Date: 06/28/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG617236-1 QC Sample: L1311632-01 Client ID: DUP Sample						
Solids, Total	94.3	94.4	%	0		20

Project Name: 06-028
Project Number: 06-028

Lab Number: L1311474
Report Date: 06/28/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information	Custody Seal
Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1311474-01A	Vial Large unpreserved	A	N/A	4.6	Y	Absent	TS(7),NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	06-028	**Lab Number:**	L1311474
Project Number:	06-028	**Report Date:**	06/28/13

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

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

Terms

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

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) 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 RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

Report Format: DU Report with "J" Qualifiers

Project Name:	06-028	**Lab Number:**	L1311474
Project Number:	06-028	**Report Date:**	06/28/13

Data Qualifiers

due to obvious interference.

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.

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

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

Report Format: DU Report with "J" Qualifiers

Project Name:	06-028	**Lab Number:**	L1311474
Project Number:	06-028	**Report Date:**	06/28/13

REFERENCES

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

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

LIMITATION OF LIABILITIES

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

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

Certificate/Approval Program Summary

Last revised June 17, 2013 - Westboro Facility

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

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

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

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

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

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

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

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

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

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

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

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

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

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm 9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

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

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

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether, Ethyl tert-butyl ether, Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE). **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, 1,3,5-Trimethylbenzene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. **EPA 8015C:** TPH. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

L1311474

CHAIN OF CUSTODY

IMPACT ENVIRONMENTAL
170 Keyland Court, Bohemia, New York 11716
(Tel.) 631-269-8800 (Fax) 631-269-1599

Page 1 of 1

LAB NAME: Alpha

RECEIVED DATE: 6-21-13

Client Information

Company Name: Impact Environmental
Address: 170 Keyland Court
City: Bohemia
Project Contact: Waste Analyst AND M. Bluight
Phone #: 631-269-8800 **Fax #:** 631-269-1599
E-mail: Analyst@impactenvironmental.com AND mbluight@impactenvironmental.com

Project Information

Project Name: 06-028
Street: 281 4th Ave
City: Brooklyn **State:** NY **Zip:**
Project #: 06-028
Sampler's Name: M. Bluight
Sampler's Signature: M. Bluight

Analytical Information

Impact Analytical Package A*	Impact Analytical Package B**	VOCs 8260 (List for NY Part 375 & NJ DCSRS)	SPLP (Mark 'H' in box for 'Hold')	NYCDEP Sewer Discharge Parameters	VOCs 8260 (CP51 LIST)					
					X					

Matrix Codes

L - Liquid
S - Soil
A - Air
OL - Oil
W - Wipe
PC - Paint Chips
SL - Sludge
SD - Solid
DW- Drinking Water
DISS - Dissolved

Sample Type

G=Grab
C=Composite
B=Blank

LAB SAMPLE # (LAB USE ONLY)	Sample Information: Sample ID	Sample Collection: Matrix Code	Sample Type	Sample Date	Time	Sample Containers: Total # of bottles	Number of Each Preserved Bottle: None	ICE	HCL	Methanol (EPA 5035)	Sodium Bisulfate (EPA 5035)	OTHER (List)	(LAB USE ONLY)
11474.1	SB-01	S	G	6/20/13	11:00	1		1					
	2												
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												

Turnaround Time (Business Days)

- [X] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *RUSH*

(LAB USE ONLY)
TAT Approved By / Date:

Data Deliverable Information

- [X] Results Only (Level-1)
- [ ] Results plus Misc. QC (Level-2)
- [ ] Results plus ALL QC (Level-3)
- [ ] PA QC Package
- [ ] NJ QC Package (Level3NJ)
- [ ] CLP Category A (Level-2)
- [ ] CLP Category B (Level-4)
- [ ] ASP QC Package (Level-4)
- [ ] Other _____
- [ ] EDD Format_____

(EDD Formats: Excel, pdf, EQUIS, GIS, GISKey, SPDES, Ascii, TAGM, OENJ)

REFERENCES

*Package A (proprietary) - Priority Pollutants Metals, SVOCs, PCB/Pest and Herbicides - to match all NJ DCSRS & NYS Part 375 parameters and detection limits
**Package B (proprietary) - Same as Package A, plus TCLP Metals & TPH

NOTES & DIRECTIONS TO THE LAB:

Sample custody must be documented below, ~~each time samples~~ change possession, with a signature, date, and time.

	Relinquished By Sampler:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	M. Bluight	6/20/13 10:30		2	2	2 Andy Adler
3	Andy Adler	3 6/22/13 00:30	3	Relinquished By:	Date / Time: 4	Received By: 4
5	Relinquished by:	Date / Time: 5	Received By: 5			

COOLER INFORMATION
Cooler Temp:_____ pH:_____ ☐ On Ice ☐ Sample Receipt Discrepancy(attach information)

Updated March 2011

ANALYTICAL REPORT

Lab Number:	L1311750
Client:	Impact Environmental 170 Keyland Ct Bohemia, NY 11716
ATTN:	Michael Bluight
Phone:	(631) 269-8800
Project Name:	06-028
Project Number:	06-028
Report Date:	07/02/13

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: 06-028
Project Number: 06-028

Lab Number: L1311750
Report Date: 07/02/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1311750-01	MW-1	281 4TH AVENUE, BROOKLYN, NY	06/24/13 05:30
L1311750-02	MW-2	281 4TH AVENUE, BROOKLYN, NY	06/24/13 06:00
L1311750-03	MW-3	281 4TH AVENUE, BROOKLYN, NY	06/24/13 06:30
L1311750-04	MW-4	281 4TH AVENUE, BROOKLYN, NY	06/24/13 07:30
L1311750-05	MW-5	281 4TH AVENUE, BROOKLYN, NY	06/24/13 07:00
L1311750-06	MW-6	281 4TH AVENUE, BROOKLYN, NY	06/24/13 08:00

Project Name: 06-028
Project Number: 06-028

Lab Number: L1311750
Report Date: 07/02/13

Case Narrative

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

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

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

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

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

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

Project Name:	06-028	**Lab Number:**	L1311750
Project Number:	06-028	**Report Date:**	07/02/13

Case Narrative (continued)

Report Submission

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

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: Elizabeth Simmons

Title: Technical Director/Representative Date: 07/02/13

ORGANICS

VOLATILES

Project Name: 06-028 **Lab Number:** L1311750

Project Number: 06-028 **Report Date:** 07/02/13

SAMPLE RESULTS

Lab ID:	L1311750-01	Date Collected:	06/24/13 05:30
Client ID:	MW-1	Date Received:	06/25/13
Sample Location:	281 4TH AVENUE, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	07/01/13 16:05		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
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
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	108		70-130

Project Name: 06-028 **Lab Number:** L1311750

Project Number: 06-028 **Report Date:** 07/02/13

SAMPLE RESULTS

Lab ID:	L1311750-02	Date Collected:	06/24/13 06:00
Client ID:	MW-2	Date Received:	06/25/13
Sample Location:	281 4TH AVENUE, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	07/01/13 16:32		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	1.6	J	ug/l	2.5	0.70	1
sec-Butylbenzene	1.3	J	ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	1.8	J	ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	5.7		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	1.1	J	ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	111		70-130

Project Name: 06-028 **Lab Number:** L1311750

Project Number: 06-028 **Report Date:** 07/02/13

SAMPLE RESULTS

Lab ID:	L1311750-03	Date Collected:	06/24/13 06:30
Client ID:	MW-3	Date Received:	06/25/13
Sample Location:	281 4TH AVENUE, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	07/01/13 17:00		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	0.19	J	ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	2.4	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
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
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	110		70-130

Project Name: 06-028 **Lab Number:** L1311750

Project Number: 06-028 **Report Date:** 07/02/13

SAMPLE RESULTS

Lab ID:	L1311750-04	Date Collected:	06/24/13 07:30
Client ID:	MW-4	Date Received:	06/25/13
Sample Location:	281 4TH AVENUE, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	07/01/13 17:27		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
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
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	110		70-130

Project Name: 06-028 **Lab Number:** L1311750

Project Number: 06-028 **Report Date:** 07/02/13

SAMPLE RESULTS

Lab ID:	L1311750-05	Date Collected:	06/24/13 07:00
Client ID:	MW-5	Date Received:	06/25/13
Sample Location:	281 4TH AVENUE, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	07/01/13 17:55		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	2.1		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	5.8		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
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
Isopropylbenzene	2.3	J	ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	1.9	J	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	105		70-130

Project Name: 06-028 **Lab Number:** L1311750

Project Number: 06-028 **Report Date:** 07/02/13

SAMPLE RESULTS

Lab ID:	L1311750-06	Date Collected:	06/24/13 08:00
Client ID:	MW-6	Date Received:	06/25/13
Sample Location:	281 4TH AVENUE, BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	07/01/13 18:23		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
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
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	112		70-130

Project Name: 06-028 **Lab Number:** L1311750

Project Number: 06-028 **Report Date:** 07/02/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/01/13 15:37
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG619124-3					
Benzene	ND		ug/l	0.50	0.19
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	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
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
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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 06-028

Project Number: 06-028

Lab Number: L1311750

Report Date: 07/02/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG619124-1 WG619124-2								
Benzene	101		98		70-130	3		20
Toluene	94		95		70-130	1		20
Ethylbenzene	98		96		70-130	2		20
Methyl tert butyl ether	104		104		63-130	0		20
p/m-Xylene	99		96		70-130	3		20
o-Xylene	88		88		70-130	0		20
n-Butylbenzene	87		86		53-136	1		20
sec-Butylbenzene	94		92		70-130	2		20
tert-Butylbenzene	87		86		70-130	1		20
Isopropylbenzene	83		82		70-130	1		20
p-Isopropyltoluene	85		85		70-130	0		20
Naphthalene	102		102		70-130	0		20
n-Propylbenzene	91		92		69-130	1		20
1,3,5-Trimethylbenzene	92		91		64-130	1		20
1,2,4-Trimethylbenzene	88		86		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 06-028
Project Number: 06-028

Lab Number: L1311750
Report Date: 07/02/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG619124-1 WG619124-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		105		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	95		94		70-130
Dibromofluoromethane	109		105		70-130

Project Name: 06-028
Project Number: 06-028

Lab Number: L1311750
Report Date: 07/02/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1311750-01A	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1311750-01B	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1311750-01C	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1311750-02A	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1311750-02B	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1311750-02C	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1311750-03A	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1311750-03B	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1311750-03C	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1311750-04A	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1311750-04B	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1311750-04C	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1311750-05A	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1311750-05B	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1311750-05C	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1311750-06A	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1311750-06B	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1311750-06C	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	06-028	**Lab Number:**	L1311750
Project Number:	06-028	**Report Date:**	07/02/13

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

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

Terms

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

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) 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 RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

Report Format: DU Report with "J" Qualifiers

Project Name:	06-028	**Lab Number:**	L1311750
Project Number:	06-028	**Report Date:**	07/02/13

Data Qualifiers

due to obvious interference.

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.

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

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

Report Format: DU Report with "J" Qualifiers

Project Name:	06-028	**Lab Number:**	L1311750
Project Number:	06-028	**Report Date:**	07/02/13

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.

Certificate/Approval Program Summary

Last revised June 17, 2013 - Westboro Facility

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

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

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

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

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

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

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

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

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

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

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

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

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

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm 9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

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

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

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether, Ethyl tert-butyl ether, Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE). **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, 1,3,5-Trimethylbenzene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. **EPA 8015C:** TPH. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

L1311750

IMPACT ENVIRONMENTAL
170 Keyland Court, Bohemia, New York 11716
(Tel.) 631-269-8800 (Fax) 631-269-1599

Page 1 of 1

LAB NAME: Alpha Analytical

RECEIVED DATE:

Client Information		Project Information	
Company Name	Impact Environmental	**Project Name**	06-028
Address	170 Keyland Court	**Street**	231 4th Avenue
City	Bohemia	**City**	Brooklyn
		State	NY
		Zip	
Project Contact	Waste Analyst AND M. Bluight	**Project #**	06-028
Phone #	631-269-8800	**Fax #**	631-269-1599
		Sampler's Name	Michael Bluight
E-mail	Analyst@impactenvironmental.com AND mbluight @impactenvironmental.com	**Sampler's Signature**	

LAB SAMPLE # (LAB USE ONLY)	Sample Information: Sample ID	Sample Collection: Matrix Code	Sample Type	Sample Date	Time	Sample Containers: Total # of bottles	Number of Each Preserved Bottle: None	ICE	HCL	Methanol (EPA 5035)	Sodium Bisulfate (EPA 5035)	OTHER (List)	Impact Analytical Package A*	Impact Analytical Package B**	VOCs 8260 (List for NY Part 375 & NJ DCSRS)	SPLP (Mark 'H' in box for 'Hold')	NYCDEP Sewer Discharge Parameters	CP-51 Analyte List 8260
11750-01	1 MW-1	L	G	6/24/13	05:30	3		X	3									X
02	2 MW-2	L	G	6/24/13	06:00	3		3	3									X
03	3 MW-3	L	G	6/24/13	06:30	3		3	3									X
04	4 MW-4	L	G	6/24/13	07:30	3		3	3									X
05	5 MW-5	L	G	6/24/13	07:00	3		3	3									X
06	6 MW-6	L	G	6/24/13	08:00	3		3	3									X
	7																	
	8																	
	9																	
	10																	

Matrix Codes: L - Liquid; S - Soil; A - Air; OL - Oil; W - Wipe; PC - Paint Chips; SL - Sludge; SD - Solid; DW- Drinking Water; DISS - Dissolved

Sample Type: G=Grab; C=Composite; B=Blank

(LAB USE ONLY)

Turnaround Time (Business Days)

- [X] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *RUSH*

(LAB USE ONLY) TAT Approved By / Date:

Data Deliverable Information

- [X] Results Only (Level-1)
- [ ] Results plus Misc. QC (Level-2)
- [ ] Results plus ALL QC (Level-3)
- [ ] PA QC Package
- [ ] NJ QC Package (Level3NJ)
- [ ] CLP Category A (Level-2)
- [ ] CLP Category B (Level-4)
- [ ] ASP QC Package (Level-4)
- [ ] Other _____
- [ ] EDD Format_____

(EDD Formats: Excel, pdf, EQUIS, GIS, GISKey, SPDES, Ascii, TAGM, OENJ)

REFERENCES

*Package A (proprietary) - Priority Pollutants Metals, SVOCs, PCB/Pest and Herbicides - to match all NJ DCSRS & NYS Part 375 parameters and detection limits
**Package B (proprietary) - Same as Package A, plus TCLP Metals & TPH

NOTES & DIRECTIONS TO THE LAB:

Sample custody must be documented below, each time samples change possession, with a signature, date, and time.

	Relinquished by Sampler:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	M. Bluight	6/25/13		2	6/25/13 17:20	Abdul Mahmood
3	Abdul Mahmood	6/26/13 0015	William McClendon	4	4	4
5	5	5	5	Cooler Temp:_____	pH:_____	☐ On Ice ☐ Sample Receipt Discrepancy(attach information)

COOLER INFORMATION

Updated March 2011

APPENDIX – C

Soil Boring Logs

SOIL BORING LOG

Client: DJS Real Estate Development, LLC		Boring No.: B-1	Impact Environmental 170 Keyland Court Bohemia, NY 11217 (631) 269-8800
Project # : 5981-01-04-4001		Sheet 1 of 5	
Site Location: 275 4th Avenue, Brooklyn NY		Date: 2/4/2014	
Drilling Co: Impact Environmental		*FORMAT FOR CHARACTERIZATION*	
Method: GeoProbe - MacroCore		**Ex.1:** brown, loose F SILTY-SAND, with some C Gravel	
Personnel: B. Hernandez Salazar, E. Perigard		**Ex.2:** grey & brown mottled soft CLAY and brown F SAND, with trace organics	
Total Depth: 15 ft	Depth to Water: ~11.2 ft		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
						X	Asphalt	
						X	Broken concrete and stone fragments	
1						X		
	0					X		
2						X		
						X		
3						X	Brown silty sand with concrete, brick,stone fragments. Some coal fragements.	
						X		
4						X		
	0.1					X		
5	0.6					X		
						X		
6						X		
						X		
7						X		
						X		
8						X		
	0.8					X	Brown silty sand with trace rock fragments, cobble.	
9	3.6					X		
						X		
10						X		
						X		
11						X		
	1625					X	Brown silty sand with trace ceramic,rock. Petroleum odor, slight staining.	Groundwater interface
12						X		
	428					X		
13						X	Brown/Gray mottled silty sand with rock fragments, little coal, little slag. Petroleum odor, slight staining.	
						X		
14						X		
	522					X		
15							END OF BORING	
16								
17								
18								
19								
20								

TRACE = 1 - 10% LITTLE = 11 - 20% SOME = 21 - 35% AND = 36 - 50 %

Client: DJS Real Estate Development, LLC		Boring No.: B-2	Impact Environmental 170 Keyland Court Bohemia, NY 11217 (631) 269-8800
Project # : 5981-01-04-4001		Sheet 2 of 5	
Site Location: 275 4th Avenue, Brooklyn NY		Date: 2/4/2014	
Drilling Co: Impact Environmental		*FORMAT FOR CHARACTERIZATION*	
Method: GeoProbe - MacroCore		**Ex.1:** brown, loose F SILTY-SAND, with some C Gravel	
Personnel: B. Hernandez Salazar, E. Perigard		**Ex.2:** grey & brown mottled soft CLAY and brown F SAND, with trace organics	
Total Depth: 15 ft	Depth to Water: ~12.5 ft		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
						X X	Asphalt	
1						X X	Brown medium coarse sand with concrete, brick. Trace coal.	
2	0					X X		
3	0.8					X X		
4						X X	Light brown medium sand with trace brick, concrete, stone	
5	0.3					X X		
6	0.1					X X	Brown fine to medium sand with trace stone, concrete	
7						X X	Brown silty sand with trace trace concrete, ceramic, coal, slag	
8						X X		
9	0.3					X X	Light brown fine silty sand with trace cobble	
10						X X		
11						X X	Dark brown medium sand with little stone, concrete. Trace coal. Very slight petroluem odor.	
12	8.2					X X		
13						X X	Brown fine silty sand with trace cobble.	Groundwater Interface
14						X X	Brown fine silty sand with heavy petroluem odor and staining.	
15	1036					X X		
16							END OF BORING	
17								
18								
19								
20								

TRACE = 1 - 10% LITTLE = 11 - 20% SOME = 21 - 35% AND = 36 - 50 %

Client: DJS Real Estate Development, LLC		Boring No.: B-3	Impact Environmental 170 Keyland Court Bohemia, NY 11217 (631) 269-8800
Project # : 5981-01-04-4001		Sheet 3 of 5	
Site Location: 275 4th Avenue, Brooklyn NY		Date: 2/4/2014	
Drilling Co: Impact Environmental		*FORMAT FOR CHARACTERIZATION*	
Method: GeoProbe - MacroCore		**Ex.1:** brown, loose F SILTY-SAND, with some C Gravel	
Personnel: B. Hernandez Salazar, E. Perigard		**Ex.2:** grey & brown mottled soft CLAY and brown F SAND, with trace organics	
Total Depth: 15 ft	Depth to Water: ~11.5 ft		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
						X	Asphalt	
1						X	Brown coarse sand with some concret, stone, gravel	
						X		
2						X		
	0.1					X		
3						X	Light brown silty sand with trace cobble, brick.	
						X		
4						X		
						X		
5						X		
	0.0					X		
6						X		
						X		
7						X	Light brown coarse sand with little concrete, brick, coal, cobble.	
						X		
8						X		
	0.1					X		
9						X		
						X		
10						X	Brown silty sand with some cobble, trace concrete.	Groundwater Interface
						X		
11						X		
	4.1					X	Brown silty sand with trace cobble and stone. Slight petroleum odor, no staining.	
12	12.0					X		
						X		
13						X		
						X	Brown silty sand with some concrete, brick, stone. Petroleum odor and staining.	
14	38.0					X		
						X		
15							END OF BORING	
16								
17								
18								
19								
20								

TRACE = 1 - 10% LITTLE = 11 - 20% SOME = 21 - 35% AND = 36 - 50 %

Client: DJS Real Estate Development, LLC	Boring No.: B-4	Impact Environmental 170 Keyland Court Bohemia, NY 11217 (631) 269-8800
Project # : 5981-01-04-4001	Sheet 4 of 5	
Site Location: 275 4th Avenue, Brooklyn NY	Date: 2/4/2014	
Drilling Co: Impact Environmental Method: GeoProbe - MacroCore Personnel: B. Hernandez Salazar, E. Perigard Total Depth: 15 ft Depth to Water: ~11 ft	*FORMAT FOR CHARACTERIZATION* **Ex.1:** brown, loose F SILTY-SAND, with some C Gravel **Ex.2:** grey & brown mottled soft CLAY and brown F SAND, with trace organics	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
						X X	Asphalt	
1						X X	Brown medium sand with some concrete, stone, ceramic.	
2	0.0					X X		
3	0.4					X X		
4						X X	Light brown medium sand	
5						X X	Brown silty sand with some rock fragments, cobble. Trace coal.	
6	0.0					X X	Brown silty sand with some rock , brick, concrete. Trace glass, coal.	
7						X X		
8						X X		
9	0.3					X X	Brown silty sand with little coal, glass, slag.	
10						X X		
11						X X	Light brown medium sand	
12	28.3					X X	Dark brown/gray mottled silty sand with little ceramic, cobble. Petroleum odor, no staining.	Groundwater Interface
13						X X		
14	89.4					X X	Dark brown/gray mottled silty sand with little ceramic, cobble. Petroleum odor and staining.	
15						X X		
16							END OF BORING	
17								
18								
19								
20								

TRACE = 1 - 10% LITTLE = 11 - 20% SOME = 21 - 35% AND = 36 - 50 %

Client: DJS Real Estate Development, LLC		Boring No.: B-5	Impact Environmental 170 Keyland Court Bohemia, NY 11217 (631) 269-8800
Project # : 5981-01-04-4001		Sheet 5 of 5	
Site Location: 275 4th Avenue, Brooklyn NY		Date: 2/4/2014	
Drilling Co: Impact Environmental		*FORMAT FOR CHARACTERIZATION*	
Method: GeoProbe - MacroCore		**Ex.1:** brown, loose F SILTY-SAND, with some C Gravel	
Personnel: B. Hernandez Salazar, E. Perigard		**Ex.2:** grey & brown mottled soft CLAY and brown F SAND, with trace organics	
Total Depth: 15 ft	Depth to Water: ~11 ft		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
						X X	Asphalt	
1						X X	Brown medium sand with little cobble. Trace concrete, brick, stone.	
2						X X		
3	0.7					X X		
4						X X	Light brown fine sand with little rock fragments	
5						X X		
6	1.0					X X	Brown coarse sand with some concrete, brick, rock.	
7						X X		
8						X X	Brown coarse sand and brick. Little slag.	
9	0.7					X X		
10						X X	Dark brown medium sand with trace glass, coal, cobble. Slight petroleum odor.	
11	15.0					X X		Groundwater Interface
12						X X	Dark brown fine silty sand with trace rock. Petroleum odor and slight staining.	
13						X X		
14	58.0					X X		
15						X X		
16							END OF BORING	
17								
18								
19								
20								

TRACE = 1 - 10% LITTLE = 11 - 20% SOME = 21 - 35% AND = 36 - 50 %

APPENDIX – D

Groundwater Logs

IMPACT ENVIRONMENTAL
170 Keyland Court
Bohemia, New York 11716
631.269.8800 telephone
631.269.1599 facsimile
www.impactenvironmental.com

Project #: 5981-01-04-4002	Date: As Noted	Pg. 1 of 1
Client: DJS Real Estate Development LLC		Staff: B. Hernandez Salazar
Site: 275 4th Avenue, Brooklyn NY		
Task: Remedial Investigation Groundwater Gauging and Sampling		

Groundwater Purging and Sampling Log

Well Number	Well Head PID (PPM)	Depth To Product	Depth To Water	Product Thickness	Total Depth of Well	Well Diameter	Date					Well Volume	Purge Meathod & Sampling Device
MW-2	32.3 ppm	ND	12.67 ft	-	19.45 ft	2"	2/4/2014					13 gal	Bailer
Volume	Time	Temp	pH	Cond	Salinity	Diss O2	Redox (ORP)	Turridity	Alkalinity	Mn	Fe	Notes	
1	0:30	12.75 Deg C	6.87	1.72 ms/cm	0.9 ppt	7.76 mg/L	-108 mV	246 NTU	-	-	-		

Well Number	Well Head PID (PPM)	Depth To Product	Depth To Water	Product Thickness	Total Depth of Well	Well Diameter	Date					Well Volume	Purge Meathod & Sampling Device
MW-4	0.0 ppm	ND	11.68 ft	-	19.2 ft	2"	2/4/2014					14 gal	Bailer
Volume	Time	Temp	pH	Cond	Salinity	Diss O2	Redox (ORP)	Turridity	Alkalinity	Mn	Fe	Notes	
1	0:10	12.51 Deg C	6.83	1.83 ms/cm	0.9 ppt	12.26 mg/L	-3 mV	136 NTU	-	-	-		

Well Number	Well Head PID (PPM)	Depth To Product	Depth To Water	Product Thickness	Total Depth of Well	Well Diameter	Date					Well Volume	Purge Meathod & Sampling Device
MW-5	36.4 ppm	ND	11.23 ft	-	17.8 ft	2"	2/4/2014					12 gal	Bailer
Volume	Time	Temp	pH	Cond	Salinity	Diss O2	Redox (ORP)	Turridity	Alkalinity	Mn	Fe	Notes	
1	23:50	14.12 Deg C	7.79	0.959 ms/cm	0.5 ppt	11.91 mg/L	-130 mV	136 NTU	-	-	-		

APPENDIX – E

Soil Vapor Logs

IMPACT ENVIRONMENTAL 1000 Page Ave | Lyndhurst | NJ | 07071 | 201.268.5686
welcome to solid ground… *www.impactenvironmental.com*

Air/Soil Gas Sampling Form

Project #: 5981-01-04-4002 Date: February 4, 2014

Project Name: 275 4th Avenue Investigator: B. Hernandez Salazar

Type of Sample:

Soil Gas

Sample Location:

SV-2

Canister Record:

Canister ID: 233
Flow regulator ID: 0576
Sample duration: 2-Hours
Sampling rate: 17.7 L/min

Sample ID: SV-2
Date/Time start: 2/4/14, 9:11 PM
Date/Time end: 2/4/14, 11:12 PM

Regulator: 2-HR
Start pressure: -30.12 in.Hg
End pressure: -5.17 in.Hg

Air temperature (°F): 32
Barometric pressure: 30.35 in.
PID reading (ppm): 0.9 ppm

PID Meter: MiniRae 3000
Vacuum/Air pump: Low flow sample pump
Type/ft. tubing used: ¼ in polyethylene

Noticeable odor: None
Floor slab depth (ft.): 0.50 ft
Ground surface type: Asphalt
Room: Parking area
Story/level: Outdoor grade level
Intake depth below floor (ft.): 9 ft

Analytical method required: EPA Method TO-15
Laboratory used: Alpha Analytical

Comments: Vapor point purged 3 Volumes.

Air/Soil Gas Sampling Form

Project #: 5981-01-04-4002 Date: February 4, 2014

Project Name: 275 4th Avenue Investigator: B. Hernandez Salazar

Type of Sample:

Soil Gas

Sample Location:

SV-3

Canister Record:

Canister ID: 370
Flow regulator ID: 0146
Sample duration: 2-Hours
Sampling rate: 18.0 L/min

Sample ID: SV-3
Date/Time start: 2/4/14, 11:28 PM
Date/Time end: 2/5/14, 1:30 AM

Regulator: 2-HR
Start pressure: -30.13 in.Hg
End pressure: -2.40 in.Hg

Air temperature (°F): 32
Barometric pressure: 30.35 in.
PID reading (ppm): 4.1 ppm

PID Meter: MiniRae 3000
Vacuum/Air pump: Low flow sample pump
Type/ft. tubing used: ¼ in polyethylene

Noticeable odor: None
Floor slab depth (ft.): 0.50 ft
Ground surface type: Asphalt
Room: Drive-Through Area
Story/level: Outdoor grade level
Intake depth below floor (ft.): 9 ft

Analytical method required: EPA Method TO-15
Laboratory used: Alpha Analytical

Comments: Vapor point purged 3 Volumes.

Air/Soil Gas Sampling Form

Project #: 5981-01-04-4002 Date: February 4, 2014

Project Name: 275 4th Avenue Investigator: B. Hernandez Salazar

Type of Sample:

Soil Gas

Sample Location:

SV-4

Canister Record:

Canister ID: 475
Flow regulator ID: 0090
Sample duration: 2-Hours
Sampling rate: 18.0 L/min

Sample ID: SV-4
Date/Time start: 2/4/14, 9:45 PM
Date/Time end: 2/4/14, 11:35 PM

Regulator: 2-HR
Start pressure: -30.05 in.Hg
End pressure: -0.13 in.Hg

Air temperature (°F): 32
Barometric pressure: 30.35 in.
PID reading (ppm): 0.0 ppm

PID Meter: MiniRae 3000
Vacuum/Air pump: Low flow sample pump
Type/ft. tubing used: ¼ in polyethylene

Noticeable odor: None
Floor slab depth (ft.): 0.50 ft
Ground surface type: Asphalt
Room: Drive Through Area
Story/level: Outdoor grade level
Intake depth below floor (ft.): 9 ft

Analytical method required: EPA Method TO-15
Laboratory used: Alpha Analytical

Comments: Vapor point purged 3 Volumes.

APPENDIX – F

Laboratory Reports

ANALYTICAL REPORT

Lab Number:	L1402992
Client:	Impact Environmental 170 Keyland Ct Bohemia, NY 11716
ATTN:	Ben Hernandez-Salazar
Phone:	(631) 269-8800
Project Name:	275 4TH AVENUE
Project Number:	5981-01-04-4001
Report Date:	02/13/14

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: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1402992-01	B-1 (0-2')	275 4TH AVE. BROOKLYN, NY	02/04/14 23:00
L1402992-02	B-1 (12-14')	275 4TH AVE. BROOKLYN, NY	02/04/14 23:00
L1402992-03	B-2 (0-2')	275 4TH AVE. BROOKLYN, NY	02/04/14 22:00
L1402992-04	B-2 (12-14')	275 4TH AVE. BROOKLYN, NY	02/04/14 22:00
L1402992-05	B-3 (0-2')	275 4TH AVE. BROOKLYN, NY	02/04/14 23:00
L1402992-06	B-3 (12-14')	275 4TH AVE. BROOKLYN, NY	02/04/14 23:00
L1402992-07	B-4 (0-2')	275 4TH AVE. BROOKLYN, NY	02/04/14 20:00
L1402992-08	B-4 (12-14')	275 4TH AVE. BROOKLYN, NY	02/04/14 20:00
L1402992-09	B-5 (0-2')	275 4TH AVE. BROOKLYN, NY	02/04/14 21:00
L1402992-10	B-5 (12-14')	275 4TH AVE. BROOKLYN, NY	02/04/14 21:00

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

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: 275 4TH AVENUE **Lab Number:** L1402992
Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

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.

Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

L1402992-06 and -10 have elevated detection limits due to the dilutions required by the elevated concentrations of non-target compounds in the samples.

Semivolatile Organics

L1402992-01 and -03 have elevated detection limits due to the dilutions required by the sample matrices.

L1402992-07 and -09 have elevated detection limits due to the dilutions required by the matrix interferences encountered during the concentration of the samples and the analytical dilutions required by the sample matrices.

Pesticides

L1402992-07 and -09 have elevated detection limits due to the dilutions required by the sample matrices.

The surrogate recoveries for L1402992-07 and -09 are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene and decachlorobiphenyl (all at 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analysis are reported.

Total Metals

L1402992-01 through -10 have elevated detection limits for all elements, with the exception of mercury, due to the dilutions required by matrix interferences encountered during analysis.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 02/13/14

ORGANICS

VOLATILES

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-01
Client ID: B-1 (0-2')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/10/14 12:57
Analyst: BN
Percent Solids: 87%

Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	1
Chloroform	ND		ug/kg	1.7	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.2	0.36	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.8	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
1,1-Dichloropropene	ND		ug/kg	5.8	0.52	1
Bromoform	ND		ug/kg	4.6	0.48	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.20	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	5.8	0.90	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.8	0.28	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-01 Date Collected: 02/04/14 23:00

Client ID: B-1 (0-2') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.37	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.3	0.36	1
Dichlorodifluoromethane	ND		ug/kg	12	0.25	1
Acetone	ND		ug/kg	12	3.6	1
Carbon disulfide	ND		ug/kg	12	2.3	1
2-Butanone	ND		ug/kg	12	0.41	1
Vinyl acetate	ND		ug/kg	12	0.55	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.26	1
2-Hexanone	ND		ug/kg	12	0.22	1
Bromochloromethane	ND		ug/kg	5.8	0.23	1
2,2-Dichloropropane	ND		ug/kg	5.8	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.8	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Bromobenzene	ND		ug/kg	5.8	0.24	1
n-Butylbenzene	ND		ug/kg	1.2	0.23	1
sec-Butylbenzene	ND		ug/kg	1.2	0.24	1
tert-Butylbenzene	ND		ug/kg	5.8	0.65	1
o-Chlorotoluene	ND		ug/kg	5.8	0.18	1
p-Chlorotoluene	ND		ug/kg	5.8	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	0.91	1
Hexachlorobutadiene	ND		ug/kg	5.8	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.22	1
Naphthalene	ND		ug/kg	5.8	0.89	1
Acrylonitrile	ND		ug/kg	12	0.27	1
n-Propylbenzene	ND		ug/kg	1.2	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	0.91	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.8	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.8	0.66	1
1,4-Dioxane	ND		ug/kg	120	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.6	0.18	1
4-Ethyltoluene	ND		ug/kg	4.6	0.13	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-01 Date Collected: 02/04/14 23:00

Client ID: B-1 (0-2') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.15	1
Ethyl ether	ND		ug/kg	5.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	0.52	1

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

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-02
Client ID: B-1 (12-14')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/10/14 13:23
Analyst: BN
Percent Solids: 80%

Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.22	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.38	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.15	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.16	1
1,1-Dichloropropene	ND		ug/kg	6.2	0.57	1
Bromoform	ND		ug/kg	5.0	0.52	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.21	1
Benzene	4.5		ug/kg	1.2	0.15	1
Toluene	ND		ug/kg	1.9	0.14	1
Ethylbenzene	1.4		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	6.2	0.98	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.18	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.30	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-02 Date Collected: 02/04/14 23:00

Client ID: B-1 (12-14') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	3.7		ug/kg	2.5	0.13	1
p/m-Xylene	3.2		ug/kg	2.5	0.40	1
o-Xylene	0.94	J	ug/kg	2.5	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.19	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	ND		ug/kg	2.5	0.38	1
Dichlorodifluoromethane	ND		ug/kg	12	0.27	1
Acetone	ND		ug/kg	12	3.9	1
Carbon disulfide	ND		ug/kg	12	2.5	1
2-Butanone	ND		ug/kg	12	0.44	1
Vinyl acetate	ND		ug/kg	12	0.60	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.28	1
2-Hexanone	ND		ug/kg	12	0.23	1
Bromochloromethane	ND		ug/kg	6.2	0.24	1
2,2-Dichloropropane	ND		ug/kg	6.2	0.28	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.22	1
1,3-Dichloropropane	ND		ug/kg	6.2	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.40	1
Bromobenzene	ND		ug/kg	6.2	0.26	1
n-Butylbenzene	8.0		ug/kg	1.2	0.25	1
sec-Butylbenzene	8.8		ug/kg	1.2	0.26	1
tert-Butylbenzene	1.0	J	ug/kg	6.2	0.70	1
o-Chlorotoluene	ND		ug/kg	6.2	0.20	1
p-Chlorotoluene	ND		ug/kg	6.2	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.98	1
Hexachlorobutadiene	ND		ug/kg	6.2	0.53	1
Isopropylbenzene	15		ug/kg	1.2	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	2.7	J	ug/kg	6.2	0.96	1
Acrylonitrile	ND		ug/kg	12	0.30	1
n-Propylbenzene	17		ug/kg	1.2	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.98	1
1,3,5-Trimethylbenzene	2.4	J	ug/kg	6.2	0.18	1
1,2,4-Trimethylbenzene	3.4	J	ug/kg	6.2	0.71	1
1,4-Dioxane	ND		ug/kg	120	22.	1
1,4-Diethylbenzene	14		ug/kg	5.0	0.20	1
4-Ethyltoluene	ND		ug/kg	5.0	0.14	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-02 Date Collected: 02/04/14 23:00

Client ID: B-1 (12-14') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	17		ug/kg	5.0	0.16	1
Ethyl ether	ND		ug/kg	6.2	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	123		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	89		70-130

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-03
Client ID: B-2 (0-2')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/10/14 13:49
Analyst: BN
Percent Solids: 87%

Date Collected: 02/04/14 22:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.35	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.13	1
Bromodichloromethane	ND		ug/kg	1.1	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.52	1
Bromoform	ND		ug/kg	4.6	0.48	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.20	1
Benzene	ND		ug/kg	1.1	0.14	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.1	0.17	1
Chloromethane	ND		ug/kg	5.7	0.90	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.28	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-03 Date Collected: 02/04/14 22:00

Client ID: B-2 (0-2') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.37	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.17	1
Dibromomethane	ND		ug/kg	11	0.19	1
Styrene	ND		ug/kg	2.3	0.35	1
Dichlorodifluoromethane	ND		ug/kg	11	0.25	1
Acetone	ND		ug/kg	11	3.6	1
Carbon disulfide	ND		ug/kg	11	2.3	1
2-Butanone	ND		ug/kg	11	0.41	1
Vinyl acetate	ND		ug/kg	11	0.55	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.26	1
2-Hexanone	ND		ug/kg	11	0.22	1
Bromochloromethane	ND		ug/kg	5.7	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.7	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.23	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.7	0.64	1
o-Chlorotoluene	ND		ug/kg	5.7	0.18	1
p-Chlorotoluene	ND		ug/kg	5.7	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.90	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.48	1
Isopropylbenzene	ND		ug/kg	1.1	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.7	0.88	1
Acrylonitrile	ND		ug/kg	11	0.27	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.90	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.66	1
1,4-Dioxane	ND		ug/kg	110	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.6	0.18	1
4-Ethyltoluene	ND		ug/kg	4.6	0.13	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-03 Date Collected: 02/04/14 22:00

Client ID: B-2 (0-2') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.15	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.51	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-04
Client ID: B-2 (12-14')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/10/14 14:14
Analyst: BN
Percent Solids: 81%

Date Collected: 02/04/14 22:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.22	1
Chloroform	ND		ug/kg	1.8	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.38	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.15	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.16	1
1,1-Dichloropropene	ND		ug/kg	6.2	0.56	1
Bromoform	ND		ug/kg	4.9	0.51	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.21	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.14	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	6.2	0.97	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.17	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.30	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-04 Date Collected: 02/04/14 22:00

Client ID: B-2 (12-14') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.5	0.13	1
p/m-Xylene	ND		ug/kg	2.5	0.40	1
o-Xylene	ND		ug/kg	2.5	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	ND		ug/kg	2.5	0.38	1
Dichlorodifluoromethane	ND		ug/kg	12	0.27	1
Acetone	12		ug/kg	12	3.8	1
Carbon disulfide	ND		ug/kg	12	2.5	1
2-Butanone	ND		ug/kg	12	0.44	1
Vinyl acetate	ND		ug/kg	12	0.59	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.28	1
2-Hexanone	ND		ug/kg	12	0.23	1
Bromochloromethane	ND		ug/kg	6.2	0.24	1
2,2-Dichloropropane	ND		ug/kg	6.2	0.28	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.22	1
1,3-Dichloropropane	ND		ug/kg	6.2	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.39	1
Bromobenzene	ND		ug/kg	6.2	0.26	1
n-Butylbenzene	240		ug/kg	1.2	0.24	1
sec-Butylbenzene	150		ug/kg	1.2	0.25	1
tert-Butylbenzene	ND		ug/kg	6.2	0.69	1
o-Chlorotoluene	ND		ug/kg	6.2	0.20	1
p-Chlorotoluene	ND		ug/kg	6.2	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.98	1
Hexachlorobutadiene	ND		ug/kg	6.2	0.52	1
Isopropylbenzene	52		ug/kg	1.2	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	ND		ug/kg	6.2	0.95	1
Acrylonitrile	ND		ug/kg	12	0.29	1
n-Propylbenzene	340	E	ug/kg	1.2	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.98	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.71	1
1,4-Dioxane	ND		ug/kg	120	22.	1
1,4-Diethylbenzene	190		ug/kg	4.9	0.20	1
4-Ethyltoluene	ND		ug/kg	4.9	0.14	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-04 Date Collected: 02/04/14 22:00

Client ID: B-2 (12-14') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	490	E	ug/kg	4.9	0.16	1
Ethyl ether	ND		ug/kg	6.2	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	0.55	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	88		70-130

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-04 D	Date Collected:	02/04/14 22:00
Client ID:	B-2 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	02/12/14 18:00		
Analyst:	BN		
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	780		ug/kg	62	7.8	50
1,2,4,5-Tetramethylbenzene	1400		ug/kg	250	8.0	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	89		70-130

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-05
Client ID: B-3 (0-2')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/10/14 14:40
Analyst: BN
Percent Solids: 88%

Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.35	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.6	0.52	1
Bromoform	ND		ug/kg	4.5	0.47	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.19	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.1	0.17	1
Chloromethane	ND		ug/kg	5.6	0.88	1
Bromomethane	ND		ug/kg	2.3	0.38	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.27	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-05 Date Collected: 02/04/14 23:00

Client ID: B-3 (0-2') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.36	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.17	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.3	0.35	1
Dichlorodifluoromethane	ND		ug/kg	11	0.25	1
Acetone	ND		ug/kg	11	3.5	1
Carbon disulfide	ND		ug/kg	11	2.3	1
2-Butanone	ND		ug/kg	11	0.40	1
Vinyl acetate	ND		ug/kg	11	0.54	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.25	1
2-Hexanone	ND		ug/kg	11	0.21	1
Bromochloromethane	ND		ug/kg	5.6	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.6	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.6	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.22	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.6	0.63	1
o-Chlorotoluene	ND		ug/kg	5.6	0.18	1
p-Chlorotoluene	ND		ug/kg	5.6	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	0.89	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.48	1
Isopropylbenzene	ND		ug/kg	1.1	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.6	0.87	1
Acrylonitrile	ND		ug/kg	11	0.27	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.89	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	0.65	1
1,4-Dioxane	ND		ug/kg	110	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.5	0.18	1
4-Ethyltoluene	ND		ug/kg	4.5	0.13	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-05 Date Collected: 02/04/14 23:00

Client ID: B-3 (0-2') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.5	0.15	1
Ethyl ether	ND		ug/kg	5.6	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	0.51	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	99		70-130

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-06 D
Client ID: B-3 (12-14')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/10/14 15:57
Analyst: BN
Percent Solids: 76%

Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	3300	660	250
1,1-Dichloroethane	ND		ug/kg	490	58.	250
Chloroform	ND		ug/kg	490	120	250
Carbon tetrachloride	ND		ug/kg	330	69.	250
1,2-Dichloropropane	ND		ug/kg	1200	75.	250
Dibromochloromethane	ND		ug/kg	330	100	250
1,1,2-Trichloroethane	ND		ug/kg	490	100	250
Tetrachloroethene	ND		ug/kg	330	46.	250
Chlorobenzene	ND		ug/kg	330	110	250
Trichlorofluoromethane	ND		ug/kg	1600	40.	250
1,2-Dichloroethane	ND		ug/kg	330	48.	250
1,1,1-Trichloroethane	ND		ug/kg	330	36.	250
Bromodichloromethane	ND		ug/kg	330	75.	250
trans-1,3-Dichloropropene	ND		ug/kg	330	40.	250
cis-1,3-Dichloropropene	ND		ug/kg	330	42.	250
1,1-Dichloropropene	ND		ug/kg	1600	150	250
Bromoform	ND		ug/kg	1300	140	250
1,1,2,2-Tetrachloroethane	ND		ug/kg	330	56.	250
Benzene	ND		ug/kg	330	39.	250
Toluene	360	J	ug/kg	490	37.	250
Ethylbenzene	ND		ug/kg	330	48.	250
Chloromethane	ND		ug/kg	1600	260	250
Bromomethane	ND		ug/kg	660	110	250
Vinyl chloride	ND		ug/kg	660	46.	250
Chloroethane	ND		ug/kg	660	100	250
1,1-Dichloroethene	ND		ug/kg	330	68.	250
trans-1,2-Dichloroethene	ND		ug/kg	490	70.	250
Trichloroethene	ND		ug/kg	330	50.	250
1,2-Dichlorobenzene	ND		ug/kg	1600	60.	250
1,3-Dichlorobenzene	ND		ug/kg	1600	60.	250
1,4-Dichlorobenzene	ND		ug/kg	1600	80.	250

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-06 D Date Collected: 02/04/14 23:00

Client ID: B-3 (12-14') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	660	34.	250
p/m-Xylene	580	J	ug/kg	660	110	250
o-Xylene	ND		ug/kg	660	89.	250
cis-1,2-Dichloroethene	ND		ug/kg	330	49.	250
Dibromomethane	ND		ug/kg	3300	54.	250
Styrene	ND		ug/kg	660	100	250
Dichlorodifluoromethane	ND		ug/kg	3300	72.	250
Acetone	ND		ug/kg	3300	1000	250
Carbon disulfide	ND		ug/kg	3300	660	250
2-Butanone	ND		ug/kg	3300	120	250
Vinyl acetate	ND		ug/kg	3300	160	250
4-Methyl-2-pentanone	ND		ug/kg	3300	80.	250
1,2,3-Trichloropropane	ND		ug/kg	3300	74.	250
2-Hexanone	ND		ug/kg	3300	62.	250
Bromochloromethane	ND		ug/kg	1600	65.	250
2,2-Dichloropropane	ND		ug/kg	1600	74.	250
1,2-Dibromoethane	ND		ug/kg	1300	58.	250
1,3-Dichloropropane	ND		ug/kg	1600	57.	250
1,1,1,2-Tetrachloroethane	ND		ug/kg	330	100	250
Bromobenzene	ND		ug/kg	1600	69.	250
n-Butylbenzene	280	J	ug/kg	330	65.	250
sec-Butylbenzene	340		ug/kg	330	68.	250
tert-Butylbenzene	ND		ug/kg	1600	180	250
o-Chlorotoluene	ND		ug/kg	1600	53.	250
p-Chlorotoluene	ND		ug/kg	1600	51.	250
1,2-Dibromo-3-chloropropane	ND		ug/kg	1600	260	250
Hexachlorobutadiene	ND		ug/kg	1600	140	250
Isopropylbenzene	ND		ug/kg	330	55.	250
p-Isopropyltoluene	ND		ug/kg	330	63.	250
Naphthalene	410	J	ug/kg	1600	250	250
Acrylonitrile	ND		ug/kg	3300	78.	250
n-Propylbenzene	640		ug/kg	330	41.	250
1,2,3-Trichlorobenzene	ND		ug/kg	1600	55.	250
1,2,4-Trichlorobenzene	ND		ug/kg	1600	260	250
1,3,5-Trimethylbenzene	550	J	ug/kg	1600	47.	250
1,2,4-Trimethylbenzene	2700		ug/kg	1600	190	250
1,4-Dioxane	ND		ug/kg	33000	5700	250
1,4-Diethylbenzene	760	J	ug/kg	1300	53.	250
4-Ethyltoluene	640	J	ug/kg	1300	38.	250

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-06 D Date Collected: 02/04/14 23:00

Client ID: B-3 (12-14') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	440	J	ug/kg	1300	43.	250
Ethyl ether	ND		ug/kg	1600	87.	250
trans-1,4-Dichloro-2-butene	ND		ug/kg	1600	150	250

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

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-07
Client ID: B-4 (0-2')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/10/14 15:06
Analyst: BN
Percent Solids: 91%

Date Collected: 02/04/14 20:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.20	1
Chloroform	ND		ug/kg	1.6	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.34	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.25	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.50	1
Bromoform	ND		ug/kg	4.4	0.46	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.19	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.12	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	5.5	0.86	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.16	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.27	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-07 Date Collected: 02/04/14 20:00

Client ID: B-4 (0-2') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.12	1
p/m-Xylene	ND		ug/kg	2.2	0.36	1
o-Xylene	ND		ug/kg	2.2	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.34	1
Dichlorodifluoromethane	ND		ug/kg	11	0.24	1
Acetone	6.9	J	ug/kg	11	3.4	1
Carbon disulfide	ND		ug/kg	11	2.2	1
2-Butanone	ND		ug/kg	11	0.39	1
Vinyl acetate	ND		ug/kg	11	0.53	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.25	1
2-Hexanone	ND		ug/kg	11	0.21	1
Bromochloromethane	ND		ug/kg	5.5	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.22	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.5	0.62	1
o-Chlorotoluene	ND		ug/kg	5.5	0.18	1
p-Chlorotoluene	ND		ug/kg	5.5	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.87	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.47	1
Isopropylbenzene	ND		ug/kg	1.1	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.21	1
Naphthalene	ND		ug/kg	5.5	0.85	1
Acrylonitrile	ND		ug/kg	11	0.26	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.87	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.63	1
1,4-Dioxane	ND		ug/kg	110	19.	1
1,4-Diethylbenzene	ND		ug/kg	4.4	0.18	1
4-Ethyltoluene	ND		ug/kg	4.4	0.13	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-07 Date Collected: 02/04/14 20:00

Client ID: B-4 (0-2') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.14	1
Ethyl ether	ND		ug/kg	5.5	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	96		70-130

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-08 D
Client ID: B-4 (12-14')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/10/14 16:23
Analyst: BN
Percent Solids: 72%

Date Collected: 02/04/14 20:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	1400	280	100
1,1-Dichloroethane	ND		ug/kg	210	25.	100
Chloroform	ND		ug/kg	210	51.	100
Carbon tetrachloride	ND		ug/kg	140	29.	100
1,2-Dichloropropane	ND		ug/kg	480	32.	100
Dibromochloromethane	ND		ug/kg	140	43.	100
1,1,2-Trichloroethane	ND		ug/kg	210	42.	100
Tetrachloroethene	ND		ug/kg	140	19.	100
Chlorobenzene	ND		ug/kg	140	48.	100
Trichlorofluoromethane	ND		ug/kg	690	17.	100
1,2-Dichloroethane	ND		ug/kg	140	20.	100
1,1,1-Trichloroethane	ND		ug/kg	140	15.	100
Bromodichloromethane	ND		ug/kg	140	32.	100
trans-1,3-Dichloropropene	ND		ug/kg	140	17.	100
cis-1,3-Dichloropropene	ND		ug/kg	140	18.	100
1,1-Dichloropropene	ND		ug/kg	690	63.	100
Bromoform	ND		ug/kg	550	58.	100
1,1,2,2-Tetrachloroethane	ND		ug/kg	140	24.	100
Benzene	340		ug/kg	140	16.	100
Toluene	210		ug/kg	210	16.	100
Ethylbenzene	3500		ug/kg	140	20.	100
Chloromethane	ND		ug/kg	690	110	100
Bromomethane	ND		ug/kg	280	47.	100
Vinyl chloride	ND		ug/kg	280	20.	100
Chloroethane	ND		ug/kg	280	44.	100
1,1-Dichloroethene	ND		ug/kg	140	28.	100
trans-1,2-Dichloroethene	ND		ug/kg	210	29.	100
Trichloroethene	ND		ug/kg	140	21.	100
1,2-Dichlorobenzene	ND		ug/kg	690	25.	100
1,3-Dichlorobenzene	ND		ug/kg	690	25.	100
1,4-Dichlorobenzene	ND		ug/kg	690	34.	100

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-08 D Date Collected: 02/04/14 20:00

Client ID: B-4 (12-14') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	280	14.	100
p/m-Xylene	1900		ug/kg	280	45.	100
o-Xylene	280		ug/kg	280	38.	100
cis-1,2-Dichloroethene	ND		ug/kg	140	21.	100
Dibromomethane	ND		ug/kg	1400	23.	100
Styrene	ND		ug/kg	280	43.	100
Dichlorodifluoromethane	ND		ug/kg	1400	30.	100
Acetone	ND		ug/kg	1400	430	100
Carbon disulfide	ND		ug/kg	1400	280	100
2-Butanone	ND		ug/kg	1400	49.	100
Vinyl acetate	ND		ug/kg	1400	66.	100
4-Methyl-2-pentanone	ND		ug/kg	1400	34.	100
1,2,3-Trichloropropane	ND		ug/kg	1400	31.	100
2-Hexanone	ND		ug/kg	1400	26.	100
Bromochloromethane	ND		ug/kg	690	27.	100
2,2-Dichloropropane	ND		ug/kg	690	31.	100
1,2-Dibromoethane	ND		ug/kg	550	25.	100
1,3-Dichloropropane	ND		ug/kg	690	24.	100
1,1,1,2-Tetrachloroethane	ND		ug/kg	140	44.	100
Bromobenzene	ND		ug/kg	690	29.	100
n-Butylbenzene	510		ug/kg	140	27.	100
sec-Butylbenzene	260		ug/kg	140	28.	100
tert-Butylbenzene	ND		ug/kg	690	78.	100
o-Chlorotoluene	ND		ug/kg	690	22.	100
p-Chlorotoluene	ND		ug/kg	690	21.	100
1,2-Dibromo-3-chloropropane	ND		ug/kg	690	110	100
Hexachlorobutadiene	ND		ug/kg	690	58.	100
Isopropylbenzene	810		ug/kg	140	23.	100
p-Isopropyltoluene	ND		ug/kg	140	26.	100
Naphthalene	3700		ug/kg	690	110	100
Acrylonitrile	ND		ug/kg	1400	33.	100
n-Propylbenzene	2500		ug/kg	140	17.	100
1,2,3-Trichlorobenzene	ND		ug/kg	690	23.	100
1,2,4-Trichlorobenzene	ND		ug/kg	690	110	100
1,3,5-Trimethylbenzene	3200		ug/kg	690	20.	100
1,2,4-Trimethylbenzene	12000		ug/kg	690	79.	100
1,4-Dioxane	ND		ug/kg	14000	2400	100
1,4-Diethylbenzene	3000		ug/kg	550	22.	100
4-Ethyltoluene	880		ug/kg	550	16.	100

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-08 D Date Collected: 02/04/14 20:00

Client ID: B-4 (12-14') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	1400		ug/kg	550	18.	100
Ethyl ether	ND		ug/kg	690	37.	100
trans-1,4-Dichloro-2-butene	ND		ug/kg	690	62.	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	95		70-130

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-09	Date Collected:	02/04/14 21:00
Client ID:	B-5 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	02/10/14 15:31		
Analyst:	BN		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.20	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.35	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.52	1
Bromoform	ND		ug/kg	4.5	0.47	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.19	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.13	1
Ethylbenzene	ND		ug/kg	1.1	0.17	1
Chloromethane	ND		ug/kg	5.7	0.89	1
Bromomethane	ND		ug/kg	2.3	0.38	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.27	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-09 Date Collected: 02/04/14 21:00

Client ID: B-5 (0-2') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.36	1
o-Xylene	ND		ug/kg	2.3	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.17	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.3	0.35	1
Dichlorodifluoromethane	ND		ug/kg	11	0.25	1
Acetone	ND		ug/kg	11	3.5	1
Carbon disulfide	ND		ug/kg	11	2.3	1
2-Butanone	ND		ug/kg	11	0.40	1
Vinyl acetate	ND		ug/kg	11	0.54	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.25	1
2-Hexanone	ND		ug/kg	11	0.21	1
Bromochloromethane	ND		ug/kg	5.7	0.22	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.7	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.22	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.7	0.64	1
o-Chlorotoluene	ND		ug/kg	5.7	0.18	1
p-Chlorotoluene	ND		ug/kg	5.7	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.89	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.48	1
Isopropylbenzene	ND		ug/kg	1.1	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	1.1	J	ug/kg	5.7	0.87	1
Acrylonitrile	ND		ug/kg	11	0.27	1
n-Propylbenzene	ND		ug/kg	1.1	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.89	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.65	1
1,4-Dioxane	ND		ug/kg	110	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.5	0.18	1
4-Ethyltoluene	ND		ug/kg	4.5	0.13	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-09 Date Collected: 02/04/14 21:00

Client ID: B-5 (0-2') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.5	0.15	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.51	1

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

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-10 D
Client ID: B-5 (12-14')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/10/14 16:48
Analyst: BN
Percent Solids: 81%

Date Collected: 02/04/14 21:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6200	1200	500
1,1-Dichloroethane	ND		ug/kg	920	110	500
Chloroform	ND		ug/kg	920	230	500
Carbon tetrachloride	ND		ug/kg	620	130	500
1,2-Dichloropropane	ND		ug/kg	2200	140	500
Dibromochloromethane	ND		ug/kg	620	190	500
1,1,2-Trichloroethane	ND		ug/kg	920	190	500
Tetrachloroethene	ND		ug/kg	620	86.	500
Chlorobenzene	ND		ug/kg	620	210	500
Trichlorofluoromethane	ND		ug/kg	3100	75.	500
1,2-Dichloroethane	ND		ug/kg	620	90.	500
1,1,1-Trichloroethane	ND		ug/kg	620	68.	500
Bromodichloromethane	ND		ug/kg	620	140	500
trans-1,3-Dichloropropene	ND		ug/kg	620	74.	500
cis-1,3-Dichloropropene	ND		ug/kg	620	78.	500
1,1-Dichloropropene	ND		ug/kg	3100	280	500
Bromoform	ND		ug/kg	2500	260	500
1,1,2,2-Tetrachloroethane	ND		ug/kg	620	100	500
Benzene	ND		ug/kg	620	72.	500
Toluene	ND		ug/kg	920	69.	500
Ethylbenzene	ND		ug/kg	620	91.	500
Chloromethane	ND		ug/kg	3100	480	500
Bromomethane	ND		ug/kg	1200	210	500
Vinyl chloride	ND		ug/kg	1200	87.	500
Chloroethane	ND		ug/kg	1200	190	500
1,1-Dichloroethene	ND		ug/kg	620	130	500
trans-1,2-Dichloroethene	ND		ug/kg	920	130	500
Trichloroethene	ND		ug/kg	620	94.	500
1,2-Dichlorobenzene	ND		ug/kg	3100	110	500
1,3-Dichlorobenzene	ND		ug/kg	3100	110	500
1,4-Dichlorobenzene	ND		ug/kg	3100	150	500

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-10 D Date Collected: 02/04/14 21:00

Client ID: B-5 (12-14') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1200	64.	500
p/m-Xylene	ND		ug/kg	1200	200	500
o-Xylene	ND		ug/kg	1200	170	500
cis-1,2-Dichloroethene	ND		ug/kg	620	92.	500
Dibromomethane	ND		ug/kg	6200	100	500
Styrene	ND		ug/kg	1200	190	500
Dichlorodifluoromethane	ND		ug/kg	6200	130	500
Acetone	ND		ug/kg	6200	1900	500
Carbon disulfide	ND		ug/kg	6200	1200	500
2-Butanone	ND		ug/kg	6200	220	500
Vinyl acetate	ND		ug/kg	6200	290	500
4-Methyl-2-pentanone	ND		ug/kg	6200	150	500
1,2,3-Trichloropropane	ND		ug/kg	6200	140	500
2-Hexanone	ND		ug/kg	6200	120	500
Bromochloromethane	ND		ug/kg	3100	120	500
2,2-Dichloropropane	ND		ug/kg	3100	140	500
1,2-Dibromoethane	ND		ug/kg	2500	110	500
1,3-Dichloropropane	ND		ug/kg	3100	110	500
1,1,1,2-Tetrachloroethane	ND		ug/kg	620	200	500
Bromobenzene	ND		ug/kg	3100	130	500
n-Butylbenzene	ND		ug/kg	620	120	500
sec-Butylbenzene	530	J	ug/kg	620	130	500
tert-Butylbenzene	ND		ug/kg	3100	340	500
o-Chlorotoluene	ND		ug/kg	3100	98.	500
p-Chlorotoluene	ND		ug/kg	3100	94.	500
1,2-Dibromo-3-chloropropane	ND		ug/kg	3100	480	500
Hexachlorobutadiene	ND		ug/kg	3100	260	500
Isopropylbenzene	ND		ug/kg	620	100	500
p-Isopropyltoluene	ND		ug/kg	620	120	500
Naphthalene	ND		ug/kg	3100	470	500
Acrylonitrile	ND		ug/kg	6200	150	500
n-Propylbenzene	520	J	ug/kg	620	77.	500
1,2,3-Trichlorobenzene	ND		ug/kg	3100	100	500
1,2,4-Trichlorobenzene	ND		ug/kg	3100	480	500
1,3,5-Trimethylbenzene	ND		ug/kg	3100	88.	500
1,2,4-Trimethylbenzene	ND		ug/kg	3100	350	500
1,4-Dioxane	ND		ug/kg	62000	11000	500
1,4-Diethylbenzene	600	J	ug/kg	2500	98.	500
4-Ethyltoluene	ND		ug/kg	2500	72.	500

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-10 D Date Collected: 02/04/14 21:00

Client ID: B-5 (12-14') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	980	J	ug/kg	2500	80.	500
Ethyl ether	ND		ug/kg	3100	160	500
trans-1,4-Dichloro-2-butene	ND		ug/kg	3100	280	500

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/10/14 12:31
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG669749-3					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.31
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	0.45	J	ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/10/14 12:31
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG669749-3					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/10/14 12:31
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG669749-3					
Acrylonitrile	ND		ug/kg	10	0.24
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
Methyl Acetate	ND		ug/kg	20	0.76
Ethyl Acetate	ND		ug/kg	20	0.82
Acrolein	ND		ug/kg	25	9.2
Cyclohexane	ND		ug/kg	20	1.1
1,4-Dioxane	ND		ug/kg	100	17.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	0.38
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45
Methyl cyclohexane	ND		ug/kg	4.0	1.3
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.42
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.58

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/10/14 12:31
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG669749-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	99		70-130

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/12/14 09:26
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG669749-6					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.31
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	0.41	J	ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	0.77	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/12/14 09:26
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG669749-6					
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77
Acrylonitrile	ND		ug/kg	10	0.24

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/12/14 09:26
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG669749-6					
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
Methyl Acetate	ND		ug/kg	20	0.76
Ethyl Acetate	ND		ug/kg	20	0.82
Acrolein	ND		ug/kg	25	9.2
Cyclohexane	ND		ug/kg	20	1.1
1,4-Dioxane	ND		ug/kg	100	17.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	0.38
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45
Methyl cyclohexane	ND		ug/kg	4.0	1.3
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.42
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.58

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	90		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG669749-1 WG669749-2								
Methylene chloride	84		83		70-130	1		30
1,1-Dichloroethane	88		86		70-130	2		30
Chloroform	88		86		70-130	2		30
Carbon tetrachloride	95		90		70-130	5		30
1,2-Dichloropropane	85		83		70-130	2		30
Dibromochloromethane	87		85		70-130	2		30
2-Chloroethylvinyl ether	**32**	Q	**31**	Q	70-130	3		30
1,1,2-Trichloroethane	86		86		70-130	0		30
Tetrachloroethene	95		90		70-130	5		30
Chlorobenzene	89		86		70-130	3		30
Trichlorofluoromethane	92		95		70-139	3		30
1,2-Dichloroethane	89		88		70-130	1		30
1,1,1-Trichloroethane	92		89		70-130	3		30
Bromodichloromethane	87		85		70-130	2		30
trans-1,3-Dichloropropene	88		85		70-130	3		30
cis-1,3-Dichloropropene	87		85		70-130	2		30
1,1-Dichloropropene	95		91		70-130	4		30
Bromoform	89		86		70-130	3		30
1,1,2,2-Tetrachloroethane	86		86		70-130	0		30
Benzene	87		84		70-130	4		30
Toluene	85		81		70-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG669749-1 WG669749-2								
Ethylbenzene	88		84		70-130	5		30
Chloromethane	82		80		52-130	2		30
Bromomethane	93		87		57-147	7		30
Vinyl chloride	90		86		67-130	5		30
Chloroethane	99		90		50-151	10		30
1,1-Dichloroethene	93		88		65-135	6		30
trans-1,2-Dichloroethene	91		88		70-130	3		30
Trichloroethene	93		90		70-130	3		30
1,2-Dichlorobenzene	87		86		70-130	1		30
1,3-Dichlorobenzene	89		87		70-130	2		30
1,4-Dichlorobenzene	90		88		70-130	2		30
Methyl tert butyl ether	85		87		66-130	2		30
p/m-Xylene	89		85		70-130	5		30
o-Xylene	82		83		70-130	1		30
cis-1,2-Dichloroethene	89		88		70-130	1		30
Dibromomethane	87		87		70-130	0		30
Styrene	83		84		70-130	1		30
Dichlorodifluoromethane	85		83		30-146	2		30
Acetone	72		71		54-140	1		30
Carbon disulfide	84		80		59-130	5		30
2-Butanone	75		74		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG669749-1 WG669749-2								
Vinyl acetate	86		85		70-130	1		30
4-Methyl-2-pentanone	84		83		70-130	1		30
1,2,3-Trichloropropane	84		84		68-130	0		30
2-Hexanone	83		80		70-130	4		30
Bromochloromethane	90		88		70-130	2		30
2,2-Dichloropropane	87		84		70-130	4		30
1,2-Dibromoethane	90		87		70-130	3		30
1,3-Dichloropropane	88		87		69-130	1		30
1,1,1,2-Tetrachloroethane	91		88		70-130	3		30
Bromobenzene	88		87		70-130	1		30
n-Butylbenzene	90		86		70-130	5		30
sec-Butylbenzene	90		86		70-130	5		30
tert-Butylbenzene	89		85		70-130	5		30
o-Chlorotoluene	89		87		70-130	2		30
p-Chlorotoluene	86		84		70-130	2		30
1,2-Dibromo-3-chloropropane	91		87		68-130	4		30
Hexachlorobutadiene	90		85		67-130	6		30
Isopropylbenzene	88		85		70-130	3		30
p-Isopropyltoluene	89		85		70-130	5		30
Naphthalene	87		86		70-130	1		30
Acrylonitrile	81		77		70-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG669749-1 WG669749-2								
Isopropyl Ether	86		87		66-130	1		30
tert-Butyl Alcohol	86		86		70-130	0		30
n-Propylbenzene	91		87		70-130	4		30
1,2,3-Trichlorobenzene	87		86		70-130	1		30
1,2,4-Trichlorobenzene	88		88		70-130	0		30
1,3,5-Trimethylbenzene	87		84		70-130	4		30
1,2,4-Trimethylbenzene	89		87		70-130	2		30
Methyl Acetate	92		90		51-146	2		30
Ethyl Acetate	89		86		70-130	3		30
Acrolein	71		70		70-130	1		30
Cyclohexane	94		89		59-142	5		30
1,4-Dioxane	82		78		65-136	5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	96		93		50-139	3		30
1,4-Diethylbenzene	92		88		70-130	4		30
4-Ethyltoluene	84		80		70-130	5		30
1,2,4,5-Tetramethylbenzene	86		84		70-130	2		30
Tetrahydrofuran	92		86		66-130	7		30
Ethyl ether	83		85		67-130	2		30
trans-1,4-Dichloro-2-butene	84		80		70-130	5		30
Methyl cyclohexane	93		88		70-130	6		30
Ethyl-Tert-Butyl-Ether	85		86		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402992

Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG669749-1 WG669749-2								
Tertiary-Amyl Methyl Ether	85		87		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		99		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	100		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG669749-4 WG669749-5								
Methylene chloride	104		103		70-130	1		30
1,1-Dichloroethane	106		104		70-130	2		30
Chloroform	109		106		70-130	3		30
Carbon tetrachloride	109		105		70-130	4		30
1,2-Dichloropropane	102		101		70-130	1		30
Dibromochloromethane	82		81		70-130	1		30
1,1,2-Trichloroethane	91		90		70-130	1		30
Tetrachloroethene	100		97		70-130	3		30
Chlorobenzene	95		93		70-130	2		30
Trichlorofluoromethane	124		117		70-139	6		30
1,2-Dichloroethane	108		108		70-130	0		30
1,1,1-Trichloroethane	112		108		70-130	4		30
Bromodichloromethane	98		97		70-130	1		30
trans-1,3-Dichloropropene	83		81		70-130	2		30
cis-1,3-Dichloropropene	98		97		70-130	1		30
1,1-Dichloropropene	117		111		70-130	5		30
Bromoform	72		70		70-130	3		30
1,1,2,2-Tetrachloroethane	83		82		70-130	1		30
Benzene	107		105		70-130	2		30
Toluene	89		87		70-130	2		30
Ethylbenzene	93		90		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG669749-4 WG669749-5								
Chloromethane	98		93		52-130	5		30
Bromomethane	126		124		57-147	2		30
Vinyl chloride	123		118		67-130	4		30
Chloroethane	129		127		50-151	2		30
1,1-Dichloroethene	116		110		65-135	5		30
trans-1,2-Dichloroethene	113		110		70-130	3		30
Trichloroethene	115		112		70-130	3		30
1,2-Dichlorobenzene	89		88		70-130	1		30
1,3-Dichlorobenzene	90		88		70-130	2		30
1,4-Dichlorobenzene	92		90		70-130	2		30
Methyl tert butyl ether	104		103		66-130	1		30
p/m-Xylene	94		91		70-130	3		30
o-Xylene	92		90		70-130	2		30
cis-1,2-Dichloroethene	111		108		70-130	3		30
Dibromomethane	104		104		70-130	0		30
Styrene	91		89		70-130	2		30
Dichlorodifluoromethane	106		100		30-146	6		30
Acetone	85		79		54-140	7		30
Carbon disulfide	95		91		59-130	4		30
2-Butanone	84		81		70-130	4		30
Vinyl acetate	97		96		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG669749-4 WG669749-5								
4-Methyl-2-pentanone	88		87		70-130	1		30
1,2,3-Trichloropropane	82		82		68-130	0		30
2-Hexanone	73		71		70-130	3		30
Bromochloromethane	112		110		70-130	2		30
2,2-Dichloropropane	103		98		70-130	5		30
1,2-Dibromoethane	90		90		70-130	0		30
1,3-Dichloropropane	92		91		69-130	1		30
1,1,1,2-Tetrachloroethane	90		88		70-130	2		30
Bromobenzene	90		88		70-130	2		30
n-Butylbenzene	91		88		70-130	3		30
sec-Butylbenzene	91		87		70-130	4		30
tert-Butylbenzene	89		87		70-130	2		30
o-Chlorotoluene	90		88		70-130	2		30
p-Chlorotoluene	87		85		70-130	2		30
1,2-Dibromo-3-chloropropane	69		68		68-130	1		30
Hexachlorobutadiene	92		88		67-130	4		30
Isopropylbenzene	89		86		70-130	3		30
p-Isopropyltoluene	90		87		70-130	3		30
Naphthalene	83		83		70-130	0		30
Acrylonitrile	87		86		70-130	1		30
Isopropyl Ether	104		102		66-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG669749-4 WG669749-5								
tert-Butyl Alcohol	87		85		70-130	2		30
n-Propylbenzene	91		88		70-130	3		30
1,2,3-Trichlorobenzene	89		89		70-130	0		30
1,2,4-Trichlorobenzene	92		90		70-130	2		30
1,3,5-Trimethylbenzene	88		85		70-130	3		30
1,2,4-Trimethylbenzene	90		87		70-130	3		30
Methyl Acetate	104		103		51-146	1		30
Ethyl Acetate	96		94		70-130	2		30
Acrolein	74		79		70-130	7		30
Cyclohexane	112		107		59-142	5		30
1,4-Dioxane	89		87		65-136	2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	122		116		50-139	5		30
1,4-Diethylbenzene	93		90		70-130	3		30
4-Ethyltoluene	85		82		70-130	4		30
1,2,4,5-Tetramethylbenzene	86		84		70-130	2		30
Tetrahydrofuran	104		97		66-130	7		30
Ethyl ether	105		104		67-130	1		30
trans-1,4-Dichloro-2-butene	**68**	Q	**68**	Q	70-130	0		30
Methyl cyclohexane	114		109		70-130	4		30
Ethyl-Tert-Butyl-Ether	103		102		70-130	1		30
Tertiary-Amyl Methyl Ether	102		101		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402992

Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG669749-4 WG669749-5								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		96		70-130
Toluene-d8	92		92		70-130
4-Bromofluorobenzene	95		95		70-130
Dibromofluoromethane	101		102		70-130

SEMIVOLATILES

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-01 D	Date Collected:	02/04/14 23:00
Client ID:	B-1 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/08/14 06:01
Analytical Date:	02/13/14 10:18		
Analyst:	JB		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	310	J	ug/kg	760	200	5
1,2,4-Trichlorobenzene	ND		ug/kg	950	310	5
Hexachlorobenzene	ND		ug/kg	570	180	5
Bis(2-chloroethyl)ether	ND		ug/kg	860	270	5
2-Chloronaphthalene	ND		ug/kg	950	310	5
1,2-Dichlorobenzene	ND		ug/kg	950	310	5
1,3-Dichlorobenzene	ND		ug/kg	950	300	5
1,4-Dichlorobenzene	ND		ug/kg	950	290	5
3,3'-Dichlorobenzidine	ND		ug/kg	950	250	5
2,4-Dinitrotoluene	ND		ug/kg	950	200	5
2,6-Dinitrotoluene	ND		ug/kg	950	240	5
Fluoranthene	3200		ug/kg	570	170	5
4-Chlorophenyl phenyl ether	ND		ug/kg	950	290	5
4-Bromophenyl phenyl ether	ND		ug/kg	950	220	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	330	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	290	5
Hexachlorobutadiene	ND		ug/kg	950	270	5
Hexachlorocyclopentadiene	ND		ug/kg	2700	610	5
Hexachloroethane	ND		ug/kg	760	170	5
Isophorone	ND		ug/kg	860	250	5
Naphthalene	ND		ug/kg	950	320	5
Nitrobenzene	ND		ug/kg	860	230	5
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	760	200	5
n-Nitrosodi-n-propylamine	ND		ug/kg	950	280	5
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	950	250	5
Butyl benzyl phthalate	ND		ug/kg	950	180	5
Di-n-butylphthalate	ND		ug/kg	950	180	5
Di-n-octylphthalate	ND		ug/kg	950	230	5
Diethyl phthalate	ND		ug/kg	950	200	5
Dimethyl phthalate	ND		ug/kg	950	240	5
Benzo(a)anthracene	1400		ug/kg	570	190	5

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-01 D Date Collected: 02/04/14 23:00

Client ID: B-1 (0-2') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	1300		ug/kg	760	230	5
Benzo(b)fluoranthene	1600		ug/kg	570	190	5
Benzo(k)fluoranthene	610		ug/kg	570	180	5
Chrysene	1600		ug/kg	570	190	5
Acenaphthylene	ND		ug/kg	760	180	5
Anthracene	610		ug/kg	570	160	5
Benzo(ghi)perylene	850		ug/kg	760	200	5
Fluorene	ND		ug/kg	950	270	5
Phenanthrene	2900		ug/kg	570	190	5
Dibenzo(a,h)anthracene	ND		ug/kg	570	180	5
Indeno(1,2,3-cd)Pyrene	900		ug/kg	760	210	5
Pyrene	2600		ug/kg	570	180	5
Biphenyl	ND		ug/kg	2200	310	5
4-Chloroaniline	ND		ug/kg	950	250	5
2-Nitroaniline	ND		ug/kg	950	270	5
3-Nitroaniline	ND		ug/kg	950	260	5
4-Nitroaniline	ND		ug/kg	950	260	5
Dibenzofuran	ND		ug/kg	950	320	5
2-Methylnaphthalene	ND		ug/kg	1100	300	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	950	290	5
Acetophenone	ND		ug/kg	950	290	5
Benzyl Alcohol	ND		ug/kg	950	290	5
Carbazole	240	J	ug/kg	950	200	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	83		30-120
4-Terphenyl-d14	84		18-120

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-02	Date Collected:	02/04/14 23:00
Client ID:	B-1 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/08/14 06:01
Analytical Date:	02/12/14 15:09		
Analyst:	JB		
Percent Solids:	80%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	42.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	67.	1
Hexachlorobenzene	ND		ug/kg	120	38.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	58.	1
2-Chloronaphthalene	ND		ug/kg	200	67.	1
1,2-Dichlorobenzene	ND		ug/kg	200	67.	1
1,3-Dichlorobenzene	ND		ug/kg	200	65.	1
1,4-Dichlorobenzene	ND		ug/kg	200	62.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	55.	1
2,4-Dinitrotoluene	ND		ug/kg	200	44.	1
2,6-Dinitrotoluene	ND		ug/kg	200	53.	1
Fluoranthene	39	J	ug/kg	120	38.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	62.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	47.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	72.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	62.	1
Hexachlorobutadiene	ND		ug/kg	200	58.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	130	1
Hexachloroethane	ND		ug/kg	160	37.	1
Isophorone	ND		ug/kg	180	55.	1
Naphthalene	ND		ug/kg	200	68.	1
Nitrobenzene	ND		ug/kg	180	49.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	160	43.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	61.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	200	54.	1
Butyl benzyl phthalate	ND		ug/kg	200	40.	1
Di-n-butylphthalate	ND		ug/kg	200	40.	1
Di-n-octylphthalate	ND		ug/kg	200	50.	1
Diethyl phthalate	ND		ug/kg	200	43.	1
Dimethyl phthalate	ND		ug/kg	200	52.	1
Benzo(a)anthracene	ND		ug/kg	120	40.	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-02 Date Collected: 02/04/14 23:00

Client ID: B-1 (12-14') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	42.	1
Benzo(k)fluoranthene	ND		ug/kg	120	39.	1
Chrysene	ND		ug/kg	120	40.	1
Acenaphthylene	ND		ug/kg	160	38.	1
Anthracene	ND		ug/kg	120	34.	1
Benzo(ghi)perylene	ND		ug/kg	160	43.	1
Fluorene	ND		ug/kg	200	59.	1
Phenanthrene	ND		ug/kg	120	40.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	40.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	160	46.	1
Pyrene	ND		ug/kg	120	40.	1
Biphenyl	ND		ug/kg	470	68.	1
4-Chloroaniline	ND		ug/kg	200	54.	1
2-Nitroaniline	ND		ug/kg	200	58.	1
3-Nitroaniline	ND		ug/kg	200	57.	1
4-Nitroaniline	ND		ug/kg	200	56.	1
Dibenzofuran	ND		ug/kg	200	69.	1
2-Methylnaphthalene	ND		ug/kg	250	66.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	64.	1
Acetophenone	ND		ug/kg	200	64.	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	ND		ug/kg	200	44.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	81		30-120
4-Terphenyl-d14	91		18-120

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-03 D	Date Collected:	02/04/14 22:00
Client ID:	B-2 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/08/14 06:01
Analytical Date:	02/12/14 15:35		
Analyst:	JB		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	430	J	ug/kg	740	190	5
1,2,4-Trichlorobenzene	ND		ug/kg	930	300	5
Hexachlorobenzene	ND		ug/kg	560	170	5
Bis(2-chloroethyl)ether	ND		ug/kg	840	260	5
2-Chloronaphthalene	ND		ug/kg	930	300	5
1,2-Dichlorobenzene	ND		ug/kg	930	300	5
1,3-Dichlorobenzene	ND		ug/kg	930	290	5
1,4-Dichlorobenzene	ND		ug/kg	930	280	5
3,3'-Dichlorobenzidine	ND		ug/kg	930	250	5
2,4-Dinitrotoluene	ND		ug/kg	930	200	5
2,6-Dinitrotoluene	ND		ug/kg	930	240	5
Fluoranthene	8900		ug/kg	560	170	5
4-Chlorophenyl phenyl ether	ND		ug/kg	930	280	5
4-Bromophenyl phenyl ether	ND		ug/kg	930	210	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	330	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	280	5
Hexachlorobutadiene	ND		ug/kg	930	260	5
Hexachlorocyclopentadiene	ND		ug/kg	2700	600	5
Hexachloroethane	ND		ug/kg	740	170	5
Isophorone	ND		ug/kg	840	250	5
Naphthalene	ND		ug/kg	930	310	5
Nitrobenzene	ND		ug/kg	840	220	5
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	740	200	5
n-Nitrosodi-n-propylamine	ND		ug/kg	930	280	5
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	930	240	5
Butyl benzyl phthalate	ND		ug/kg	930	180	5
Di-n-butylphthalate	ND		ug/kg	930	180	5
Di-n-octylphthalate	ND		ug/kg	930	230	5
Diethyl phthalate	ND		ug/kg	930	200	5
Dimethyl phthalate	ND		ug/kg	930	240	5
Benzo(a)anthracene	4900		ug/kg	560	180	5

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-03 D Date Collected: 02/04/14 22:00

Client ID: B-2 (0-2') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	4500		ug/kg	740	230	5
Benzo(b)fluoranthene	5900		ug/kg	560	190	5
Benzo(k)fluoranthene	2200		ug/kg	560	180	5
Chrysene	4700		ug/kg	560	180	5
Acenaphthylene	370	J	ug/kg	740	170	5
Anthracene	1600		ug/kg	560	150	5
Benzo(ghi)perylene	2100		ug/kg	740	190	5
Fluorene	430	J	ug/kg	930	270	5
Phenanthrene	5700		ug/kg	560	180	5
Dibenzo(a,h)anthracene	570		ug/kg	560	180	5
Indeno(1,2,3-cd)Pyrene	2400		ug/kg	740	210	5
Pyrene	7700		ug/kg	560	180	5
Biphenyl	ND		ug/kg	2100	310	5
4-Chloroaniline	ND		ug/kg	930	240	5
2-Nitroaniline	ND		ug/kg	930	260	5
3-Nitroaniline	ND		ug/kg	930	260	5
4-Nitroaniline	ND		ug/kg	930	250	5
Dibenzofuran	310	J	ug/kg	930	310	5
2-Methylnaphthalene	ND		ug/kg	1100	300	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	930	290	5
Acetophenone	ND		ug/kg	930	290	5
Benzyl Alcohol	ND		ug/kg	930	290	5
Carbazole	620	J	ug/kg	930	200	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	85		30-120
4-Terphenyl-d14	78		18-120

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-04	Date Collected:	02/04/14 22:00
Client ID:	B-2 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/08/14 06:01
Analytical Date:	02/12/14 16:04		
Analyst:	JB		
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	41.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	66.	1
Hexachlorobenzene	ND		ug/kg	120	37.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	56.	1
2-Chloronaphthalene	ND		ug/kg	200	65.	1
1,2-Dichlorobenzene	ND		ug/kg	200	66.	1
1,3-Dichlorobenzene	ND		ug/kg	200	63.	1
1,4-Dichlorobenzene	ND		ug/kg	200	61.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	43.	1
2,6-Dinitrotoluene	ND		ug/kg	200	51.	1
Fluoranthene	37	J	ug/kg	120	37.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	61.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	46.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	71.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	61.	1
Hexachlorobutadiene	ND		ug/kg	200	56.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	130	1
Hexachloroethane	ND		ug/kg	160	36.	1
Isophorone	ND		ug/kg	180	53.	1
Naphthalene	ND		ug/kg	200	66.	1
Nitrobenzene	ND		ug/kg	180	48.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	160	42.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	60.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	200	52.	1
Butyl benzyl phthalate	ND		ug/kg	200	39.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	49.	1
Diethyl phthalate	ND		ug/kg	200	42.	1
Dimethyl phthalate	ND		ug/kg	200	51.	1
Benzo(a)anthracene	ND		ug/kg	120	39.	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-04 Date Collected: 02/04/14 22:00

Client ID: B-2 (12-14') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	40.	1
Benzo(k)fluoranthene	ND		ug/kg	120	38.	1
Chrysene	ND		ug/kg	120	39.	1
Acenaphthylene	ND		ug/kg	160	38.	1
Anthracene	ND		ug/kg	120	33.	1
Benzo(ghi)perylene	ND		ug/kg	160	42.	1
Fluorene	ND		ug/kg	200	57.	1
Phenanthrene	45	J	ug/kg	120	39.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	39.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	160	44.	1
Pyrene	ND		ug/kg	120	39.	1
Biphenyl	ND		ug/kg	460	66.	1
4-Chloroaniline	ND		ug/kg	200	53.	1
2-Nitroaniline	ND		ug/kg	200	56.	1
3-Nitroaniline	ND		ug/kg	200	55.	1
4-Nitroaniline	ND		ug/kg	200	54.	1
Dibenzofuran	ND		ug/kg	200	67.	1
2-Methylnaphthalene	ND		ug/kg	240	64.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	62.	1
Acetophenone	ND		ug/kg	200	62.	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	43.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	71		30-120
4-Terphenyl-d14	69		18-120

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-05	Date Collected:	02/04/14 23:00
Client ID:	B-3 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/10/14 21:31
Analytical Date:	02/11/14 14:40		
Analyst:	JB		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	420		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	61.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	59.	1
1,4-Dichlorobenzene	ND		ug/kg	190	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	40.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	3600		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	57.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	66.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	170	J	ug/kg	190	62.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	49.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	1500		ug/kg	110	37.	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-05 Date Collected: 02/04/14 23:00

Client ID: B-3 (0-2') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	1400		ug/kg	150	46.	1
Benzo(b)fluoranthene	1700		ug/kg	110	38.	1
Benzo(k)fluoranthene	700		ug/kg	110	36.	1
Chrysene	1700		ug/kg	110	37.	1
Acenaphthylene	250		ug/kg	150	35.	1
Anthracene	740		ug/kg	110	31.	1
Benzo(ghi)perylene	760		ug/kg	150	39.	1
Fluorene	460		ug/kg	190	54.	1
Phenanthrene	3500		ug/kg	110	37.	1
Dibenzo(a,h)anthracene	220		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	780		ug/kg	150	42.	1
Pyrene	3000		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	320		ug/kg	190	63.	1
2-Methylnaphthalene	150	J	ug/kg	220	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	58.	1
Acetophenone	ND		ug/kg	190	58.	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	200		ug/kg	190	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	70		30-120
4-Terphenyl-d14	66		18-120

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-06	Date Collected:	02/04/14 23:00
Client ID:	B-3 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/10/14 21:31
Analytical Date:	02/11/14 15:07		
Analyst:	JB		
Percent Solids:	76%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	45.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	72.	1
Hexachlorobenzene	ND		ug/kg	130	41.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	61.	1
2-Chloronaphthalene	ND		ug/kg	220	71.	1
1,2-Dichlorobenzene	ND		ug/kg	220	72.	1
1,3-Dichlorobenzene	ND		ug/kg	220	69.	1
1,4-Dichlorobenzene	ND		ug/kg	220	66.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	47.	1
2,6-Dinitrotoluene	ND		ug/kg	220	56.	1
Fluoranthene	530		ug/kg	130	40.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	66.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	50.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	77.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	66.	1
Hexachlorobutadiene	ND		ug/kg	220	62.	1
Hexachlorocyclopentadiene	ND		ug/kg	630	140	1
Hexachloroethane	ND		ug/kg	170	40.	1
Isophorone	ND		ug/kg	200	58.	1
Naphthalene	ND		ug/kg	220	72.	1
Nitrobenzene	ND		ug/kg	200	52.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	170	46.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	65.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	220	57.	1
Butyl benzyl phthalate	ND		ug/kg	220	43.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	54.	1
Diethyl phthalate	ND		ug/kg	220	46.	1
Dimethyl phthalate	ND		ug/kg	220	56.	1
Benzo(a)anthracene	250		ug/kg	130	43.	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-06 Date Collected: 02/04/14 23:00

Client ID: B-3 (12-14') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	260		ug/kg	170	53.	1
Benzo(b)fluoranthene	330		ug/kg	130	44.	1
Benzo(k)fluoranthene	120	J	ug/kg	130	42.	1
Chrysene	280		ug/kg	130	43.	1
Acenaphthylene	ND		ug/kg	170	41.	1
Anthracene	68	J	ug/kg	130	36.	1
Benzo(ghi)perylene	140	J	ug/kg	170	45.	1
Fluorene	ND		ug/kg	220	63.	1
Phenanthrene	260		ug/kg	130	43.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	42.	1
Indeno(1,2,3-cd)Pyrene	160	J	ug/kg	170	48.	1
Pyrene	460		ug/kg	130	42.	1
Biphenyl	ND		ug/kg	500	72.	1
4-Chloroaniline	ND		ug/kg	220	58.	1
2-Nitroaniline	ND		ug/kg	220	62.	1
3-Nitroaniline	ND		ug/kg	220	60.	1
4-Nitroaniline	ND		ug/kg	220	59.	1
Dibenzofuran	ND		ug/kg	220	73.	1
2-Methylnaphthalene	ND		ug/kg	260	70.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	68.	1
Acetophenone	ND		ug/kg	220	68.	1
Benzyl Alcohol	ND		ug/kg	220	67.	1
Carbazole	ND		ug/kg	220	47.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	56		30-120
4-Terphenyl-d14	67		18-120

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-07 D
Client ID: B-4 (0-2')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/11/14 15:33
Analyst: JB
Percent Solids: 91%

Date Collected: 02/04/14 20:00
Date Received: 02/06/14
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/10/14 21:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	1400	370	10
1,2,4-Trichlorobenzene	ND		ug/kg	1800	590	10
Hexachlorobenzene	ND		ug/kg	1100	340	10
Bis(2-chloroethyl)ether	ND		ug/kg	1600	510	10
2-Chloronaphthalene	ND		ug/kg	1800	590	10
1,2-Dichlorobenzene	ND		ug/kg	1800	590	10
1,3-Dichlorobenzene	ND		ug/kg	1800	570	10
1,4-Dichlorobenzene	ND		ug/kg	1800	550	10
3,3'-Dichlorobenzidine	ND		ug/kg	1800	480	10
2,4-Dinitrotoluene	ND		ug/kg	1800	390	10
2,6-Dinitrotoluene	ND		ug/kg	1800	460	10
Fluoranthene	1600		ug/kg	1100	330	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1800	550	10
4-Bromophenyl phenyl ether	ND		ug/kg	1800	420	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2200	640	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2000	550	10
Hexachlorobutadiene	ND		ug/kg	1800	510	10
Hexachlorocyclopentadiene	ND		ug/kg	5200	1200	10
Hexachloroethane	ND		ug/kg	1400	330	10
Isophorone	ND		ug/kg	1600	480	10
Naphthalene	ND		ug/kg	1800	600	10
Nitrobenzene	ND		ug/kg	1600	430	10
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1400	380	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1800	540	10
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	1800	470	10
Butyl benzyl phthalate	ND		ug/kg	1800	350	10
Di-n-butylphthalate	ND		ug/kg	1800	350	10
Di-n-octylphthalate	ND		ug/kg	1800	440	10
Diethyl phthalate	ND		ug/kg	1800	380	10
Dimethyl phthalate	ND		ug/kg	1800	460	10
Benzo(a)anthracene	810	J	ug/kg	1100	350	10

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-07 D Date Collected: 02/04/14 20:00

Client ID: B-4 (0-2') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	780	J	ug/kg	1400	440	10
Benzo(b)fluoranthene	950	J	ug/kg	1100	360	10
Benzo(k)fluoranthene	390	J	ug/kg	1100	340	10
Chrysene	870	J	ug/kg	1100	360	10
Acenaphthylene	ND		ug/kg	1400	340	10
Anthracene	ND		ug/kg	1100	300	10
Benzo(ghi)perylene	550	J	ug/kg	1400	380	10
Fluorene	ND		ug/kg	1800	520	10
Phenanthrene	1000	J	ug/kg	1100	350	10
Dibenzo(a,h)anthracene	ND		ug/kg	1100	350	10
Indeno(1,2,3-cd)Pyrene	560	J	ug/kg	1400	400	10
Pyrene	1400		ug/kg	1100	350	10
Biphenyl	ND		ug/kg	4100	600	10
4-Chloroaniline	ND		ug/kg	1800	480	10
2-Nitroaniline	ND		ug/kg	1800	510	10
3-Nitroaniline	ND		ug/kg	1800	500	10
4-Nitroaniline	ND		ug/kg	1800	490	10
Dibenzofuran	ND		ug/kg	1800	600	10
2-Methylnaphthalene	ND		ug/kg	2200	580	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1800	560	10
Acetophenone	ND		ug/kg	1800	560	10
Benzyl Alcohol	ND		ug/kg	1800	560	10
Carbazole	ND		ug/kg	1800	390	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	74		30-120
4-Terphenyl-d14	73		18-120

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-08 D	Date Collected:	02/04/14 20:00
Client ID:	B-4 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/10/14 21:31
Analytical Date:	02/11/14 16:00		
Analyst:	JB		
Percent Solids:	72%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	2100		ug/kg	370	95.	2
1,2,4-Trichlorobenzene	ND		ug/kg	460	150	2
Hexachlorobenzene	ND		ug/kg	280	86.	2
Bis(2-chloroethyl)ether	ND		ug/kg	410	130	2
2-Chloronaphthalene	ND		ug/kg	460	150	2
1,2-Dichlorobenzene	ND		ug/kg	460	150	2
1,3-Dichlorobenzene	ND		ug/kg	460	140	2
1,4-Dichlorobenzene	ND		ug/kg	460	140	2
3,3'-Dichlorobenzidine	ND		ug/kg	460	120	2
2,4-Dinitrotoluene	ND		ug/kg	460	99.	2
2,6-Dinitrotoluene	ND		ug/kg	460	120	2
Fluoranthene	14000		ug/kg	280	84.	2
4-Chlorophenyl phenyl ether	ND		ug/kg	460	140	2
4-Bromophenyl phenyl ether	ND		ug/kg	460	100	2
Bis(2-chloroisopropyl)ether	ND		ug/kg	550	160	2
Bis(2-chloroethoxy)methane	ND		ug/kg	500	140	2
Hexachlorobutadiene	ND		ug/kg	460	130	2
Hexachlorocyclopentadiene	ND		ug/kg	1300	290	2
Hexachloroethane	ND		ug/kg	370	83.	2
Isophorone	ND		ug/kg	410	120	2
Naphthalene	2200		ug/kg	460	150	2
Nitrobenzene	ND		ug/kg	410	110	2
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	370	96.	2
n-Nitrosodi-n-propylamine	ND		ug/kg	460	140	2
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	460	120	2
Butyl benzyl phthalate	ND		ug/kg	460	90.	2
Di-n-butylphthalate	ND		ug/kg	460	89.	2
Di-n-octylphthalate	ND		ug/kg	460	110	2
Diethyl phthalate	ND		ug/kg	460	97.	2
Dimethyl phthalate	ND		ug/kg	460	120	2
Benzo(a)anthracene	6200		ug/kg	280	90.	2

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-08 D Date Collected: 02/04/14 20:00

Client ID: B-4 (12-14') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	6400		ug/kg	370	110	2
Benzo(b)fluoranthene	7500		ug/kg	280	93.	2
Benzo(k)fluoranthene	2900		ug/kg	280	88.	2
Chrysene	6600		ug/kg	280	90.	2
Acenaphthylene	270	J	ug/kg	370	86.	2
Anthracene	3000		ug/kg	280	76.	2
Benzo(ghi)perylene	3700		ug/kg	370	96.	2
Fluorene	1800		ug/kg	460	130	2
Phenanthrene	13000		ug/kg	280	90.	2
Dibenzo(a,h)anthracene	920		ug/kg	280	89.	2
Indeno(1,2,3-cd)Pyrene	4000		ug/kg	370	100	2
Pyrene	13000		ug/kg	280	89.	2
Biphenyl	150	J	ug/kg	1000	150	2
4-Chloroaniline	ND		ug/kg	460	120	2
2-Nitroaniline	ND		ug/kg	460	130	2
3-Nitroaniline	ND		ug/kg	460	130	2
4-Nitroaniline	ND		ug/kg	460	120	2
Dibenzofuran	910		ug/kg	460	150	2
2-Methylnaphthalene	690		ug/kg	550	150	2
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	460	140	2
Acetophenone	ND		ug/kg	460	140	2
Benzyl Alcohol	ND		ug/kg	460	140	2
Carbazole	1500		ug/kg	460	99.	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	80		30-120
4-Terphenyl-d14	84		18-120

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-09 D	Date Collected:	02/04/14 21:00
Client ID:	B-5 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/10/14 21:31
Analytical Date:	02/11/14 16:28		
Analyst:	JB		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	1500	390	10
1,2,4-Trichlorobenzene	ND		ug/kg	1900	620	10
Hexachlorobenzene	ND		ug/kg	1100	350	10
Bis(2-chloroethyl)ether	ND		ug/kg	1700	530	10
2-Chloronaphthalene	ND		ug/kg	1900	610	10
1,2-Dichlorobenzene	ND		ug/kg	1900	620	10
1,3-Dichlorobenzene	ND		ug/kg	1900	590	10
1,4-Dichlorobenzene	ND		ug/kg	1900	570	10
3,3'-Dichlorobenzidine	ND		ug/kg	1900	500	10
2,4-Dinitrotoluene	ND		ug/kg	1900	400	10
2,6-Dinitrotoluene	ND		ug/kg	1900	480	10
Fluoranthene	2600		ug/kg	1100	340	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1900	570	10
4-Bromophenyl phenyl ether	ND		ug/kg	1900	430	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2200	660	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2000	570	10
Hexachlorobutadiene	ND		ug/kg	1900	530	10
Hexachlorocyclopentadiene	ND		ug/kg	5400	1200	10
Hexachloroethane	ND		ug/kg	1500	340	10
Isophorone	ND		ug/kg	1700	500	10
Naphthalene	ND		ug/kg	1900	620	10
Nitrobenzene	ND		ug/kg	1700	450	10
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1500	390	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1900	560	10
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	1900	490	10
Butyl benzyl phthalate	ND		ug/kg	1900	370	10
Di-n-butylphthalate	ND		ug/kg	1900	360	10
Di-n-octylphthalate	ND		ug/kg	1900	460	10
Diethyl phthalate	ND		ug/kg	1900	400	10
Dimethyl phthalate	ND		ug/kg	1900	480	10
Benzo(a)anthracene	1500		ug/kg	1100	370	10

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-09 D Date Collected: 02/04/14 21:00

Client ID: B-5 (0-2') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	1500		ug/kg	1500	460	10
Benzo(b)fluoranthene	1800		ug/kg	1100	380	10
Benzo(k)fluoranthene	790	J	ug/kg	1100	360	10
Chrysene	1500		ug/kg	1100	370	10
Acenaphthylene	ND		ug/kg	1500	350	10
Anthracene	340	J	ug/kg	1100	310	10
Benzo(ghi)perylene	1100	J	ug/kg	1500	390	10
Fluorene	ND		ug/kg	1900	540	10
Phenanthrene	1100		ug/kg	1100	370	10
Dibenzo(a,h)anthracene	ND		ug/kg	1100	360	10
Indeno(1,2,3-cd)Pyrene	1000	J	ug/kg	1500	420	10
Pyrene	2500		ug/kg	1100	360	10
Biphenyl	ND		ug/kg	4300	620	10
4-Chloroaniline	ND		ug/kg	1900	500	10
2-Nitroaniline	ND		ug/kg	1900	530	10
3-Nitroaniline	ND		ug/kg	1900	520	10
4-Nitroaniline	ND		ug/kg	1900	510	10
Dibenzofuran	ND		ug/kg	1900	630	10
2-Methylnaphthalene	ND		ug/kg	2200	600	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1900	580	10
Acetophenone	ND		ug/kg	1900	580	10
Benzyl Alcohol	ND		ug/kg	1900	580	10
Carbazole	ND		ug/kg	1900	400	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	87		30-120
4-Terphenyl-d14	86		18-120

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-10	Date Collected:	02/04/14 21:00
Client ID:	B-5 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	02/10/14 21:31
Analytical Date:	02/11/14 16:56		
Analyst:	JB		
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	42.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	67.	1
Hexachlorobenzene	ND		ug/kg	120	38.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	57.	1
2-Chloronaphthalene	ND		ug/kg	200	66.	1
1,2-Dichlorobenzene	ND		ug/kg	200	67.	1
1,3-Dichlorobenzene	ND		ug/kg	200	64.	1
1,4-Dichlorobenzene	ND		ug/kg	200	62.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	44.	1
2,6-Dinitrotoluene	ND		ug/kg	200	52.	1
Fluoranthene	150		ug/kg	120	37.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	62.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	47.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	72.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	62.	1
Hexachlorobutadiene	ND		ug/kg	200	57.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	130	1
Hexachloroethane	ND		ug/kg	160	37.	1
Isophorone	ND		ug/kg	180	54.	1
Naphthalene	ND		ug/kg	200	68.	1
Nitrobenzene	ND		ug/kg	180	48.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	160	43.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	61.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	200	53.	1
Butyl benzyl phthalate	ND		ug/kg	200	40.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	50.	1
Diethyl phthalate	ND		ug/kg	200	43.	1
Dimethyl phthalate	ND		ug/kg	200	52.	1
Benzo(a)anthracene	62	J	ug/kg	120	40.	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402992

Project Number: 5981-01-04-4001 **Report Date:** 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-10 Date Collected: 02/04/14 21:00

Client ID: B-5 (12-14') Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	60	J	ug/kg	120	41.	1
Benzo(k)fluoranthene	ND		ug/kg	120	39.	1
Chrysene	63	J	ug/kg	120	40.	1
Acenaphthylene	ND		ug/kg	160	38.	1
Anthracene	ND		ug/kg	120	34.	1
Benzo(ghi)perylene	ND		ug/kg	160	42.	1
Fluorene	ND		ug/kg	200	58.	1
Phenanthrene	67	J	ug/kg	120	40.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	39.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	160	45.	1
Pyrene	130		ug/kg	120	40.	1
Biphenyl	ND		ug/kg	460	67.	1
4-Chloroaniline	ND		ug/kg	200	54.	1
2-Nitroaniline	ND		ug/kg	200	57.	1
3-Nitroaniline	ND		ug/kg	200	56.	1
4-Nitroaniline	ND		ug/kg	200	55.	1
Dibenzofuran	ND		ug/kg	200	68.	1
2-Methylnaphthalene	ND		ug/kg	240	65.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	63.	1
Acetophenone	ND		ug/kg	200	63.	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	ND		ug/kg	200	44.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	**123**	Q	23-120
2-Fluorobiphenyl	71		30-120
4-Terphenyl-d14	78		18-120

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/12/14 08:57
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 02/08/14 05:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG669377-1					
Acenaphthene	ND		ug/kg	130	34.
Benzidine	ND		ug/kg	550	130
n-Nitrosodimethylamine	ND		ug/kg	330	54.
1,2,4-Trichlorobenzene	ND		ug/kg	160	54.
Hexachlorobenzene	ND		ug/kg	99	31.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	54.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	52.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	36.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	99	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Azobenzene	ND		ug/kg	160	44.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	47.
Hexachlorocyclopentadiene	ND		ug/kg	480	110
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	55.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	35.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	41.

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/12/14 08:57
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 02/08/14 05:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG669377-1					
Diethyl phthalate	ND		ug/kg	160	35.
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	99	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	33.
Benzo(k)fluoranthene	ND		ug/kg	99	32.
Chrysene	ND		ug/kg	99	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	99	28.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	48.
Phenanthrene	ND		ug/kg	99	32.
Dibenzo(a,h)anthracene	ND		ug/kg	99	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	37.
Pyrene	ND		ug/kg	99	32.
Biphenyl	ND		ug/kg	380	55.
Aniline	ND		ug/kg	200	34.
4-Chloroaniline	ND		ug/kg	160	44.
2-Nitroaniline	ND		ug/kg	160	47.
3-Nitroaniline	ND		ug/kg	160	46.
4-Nitroaniline	ND		ug/kg	160	45.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	53.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
P-Chloro-M-Cresol	ND		ug/kg	160	48.
2-Chlorophenol	ND		ug/kg	160	50.
2,4-Dichlorophenol	ND		ug/kg	150	54.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	360	52.

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/12/14 08:57
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 02/08/14 05:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG669377-1					
4-Nitrophenol	ND		ug/kg	230	54.
2,4-Dinitrophenol	ND		ug/kg	800	230
4,6-Dinitro-o-cresol	ND		ug/kg	430	61.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	49.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	54.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	36.
Benzaldehyde	ND		ug/kg	220	67.
Caprolactam	ND		ug/kg	160	46.
Atrazine	ND		ug/kg	130	38.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	28.
Pyridine	ND		ug/kg	660	59.
Parathion, ethyl	ND		ug/kg	160	66.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	77		0-136
4-Terphenyl-d14	82		18-120

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/11/14 10:01
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 02/10/14 21:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-10 Batch: WG669651-1					
Acenaphthene	ND		ug/kg	130	34.
Benzidine	ND		ug/kg	540	130
n-Nitrosodimethylamine	ND		ug/kg	330	54.
1,2,4-Trichlorobenzene	ND		ug/kg	160	54.
Hexachlorobenzene	ND		ug/kg	99	31.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	54.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	52.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	36.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	99	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Azobenzene	ND		ug/kg	160	44.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	47.
Hexachlorocyclopentadiene	ND		ug/kg	470	110
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	55.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	35.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	41.

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/11/14 10:01
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 02/10/14 21:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-10 Batch: WG669651-1					
Diethyl phthalate	ND		ug/kg	160	35.
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	99	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	33.
Benzo(k)fluoranthene	ND		ug/kg	99	32.
Chrysene	ND		ug/kg	99	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	99	28.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	99	32.
Dibenzo(a,h)anthracene	ND		ug/kg	99	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	37.
Pyrene	ND		ug/kg	99	32.
Biphenyl	ND		ug/kg	380	54.
Aniline	ND		ug/kg	200	34.
4-Chloroaniline	ND		ug/kg	160	44.
2-Nitroaniline	ND		ug/kg	160	47.
3-Nitroaniline	ND		ug/kg	160	46.
4-Nitroaniline	ND		ug/kg	160	45.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	53.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
P-Chloro-M-Cresol	ND		ug/kg	160	48.
2-Chlorophenol	ND		ug/kg	160	50.
2,4-Dichlorophenol	ND		ug/kg	150	54.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	360	52.

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/11/14 10:01
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 02/10/14 21:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-10 Batch: WG669651-1					
4-Nitrophenol	ND		ug/kg	230	54.
2,4-Dinitrophenol	ND		ug/kg	790	230
4,6-Dinitro-o-cresol	ND		ug/kg	430	60.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	49.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	54.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	36.
Benzaldehyde	ND		ug/kg	220	67.
Caprolactam	ND		ug/kg	160	46.
Atrazine	ND		ug/kg	130	37.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	28.
Pyridine	ND		ug/kg	660	59.
Parathion, ethyl	ND		ug/kg	160	65.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/11/14 10:01
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 02/10/14 21:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-10 Batch: WG669651-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	81		0-136
4-Terphenyl-d14	77		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG669377-2 WG669377-3								
Acenaphthene	88		87		31-137	1		50
Benzidine	15		34			**78**	Q	50
n-Nitrosodimethylamine	68		67			1		50
1,2,4-Trichlorobenzene	82		81		38-107	1		50
Hexachlorobenzene	93		94		40-140	1		50
Bis(2-chloroethyl)ether	84		81		40-140	4		50
2-Chloronaphthalene	96		94		40-140	2		50
1,2-Dichlorobenzene	82		81		40-140	1		50
1,3-Dichlorobenzene	80		77		40-140	4		50
1,4-Dichlorobenzene	80		79		28-104	1		50
3,3'-Dichlorobenzidine	46		76		40-140	49		50
2,4-Dinitrotoluene	**101**	Q	**103**	Q	28-89	2		50
2,6-Dinitrotoluene	108		108		40-140	0		50
Fluoranthene	95		95		40-140	0		50
4-Chlorophenyl phenyl ether	91		92		40-140	1		50
4-Bromophenyl phenyl ether	95		94		40-140	1		50
Azobenzene	95		96		40-140	1		50
Bis(2-chloroisopropyl)ether	86		83		40-140	4		50
Bis(2-chloroethoxy)methane	97		95		40-117	2		50
Hexachlorobutadiene	82		81		40-140	1		50
Hexachlorocyclopentadiene	64		64		40-140	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG669377-2 WG669377-3								
Hexachloroethane	83		80		40-140	4		50
Isophorone	96		96		40-140	0		50
Naphthalene	84		84		40-140	0		50
Nitrobenzene	85		84		40-140	1		50
NitrosoDiPhenylAmine(NDPA)/DPA	97		98			1		50
n-Nitrosodi-n-propylamine	94		94		32-121	0		50
Bis(2-Ethylhexyl)phthalate	98		99		40-140	1		50
Butyl benzyl phthalate	104		103		40-140	1		50
Di-n-butylphthalate	102		101		40-140	1		50
Di-n-octylphthalate	103		102		40-140	1		50
Diethyl phthalate	97		98		40-140	1		50
Dimethyl phthalate	95		95		40-140	0		50
Benzo(a)anthracene	93		94		40-140	1		50
Benzo(a)pyrene	92		95		40-140	3		50
Benzo(b)fluoranthene	95		100		40-140	5		50
Benzo(k)fluoranthene	88		91		40-140	3		50
Chrysene	88		90		40-140	2		50
Acenaphthylene	103		101		40-140	2		50
Anthracene	97		96		40-140	1		50
Benzo(ghi)perylene	87		86		40-140	1		50
Fluorene	94		94		40-140	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG669377-2 WG669377-3								
Phenanthrene	91		90		40-140	1		50
Dibenzo(a,h)anthracene	91		90		40-140	1		50
Indeno(1,2,3-cd)Pyrene	93		92		40-140	1		50
Pyrene	95		94		35-142	1		50
Biphenyl	86		84			2		50
Aniline	**35**	Q	63		40-140	**57**	Q	50
4-Chloroaniline	71		77		40-140	8		50
2-Nitroaniline	110		111		47-134	1		50
3-Nitroaniline	36		65		26-129	**57**	Q	50
4-Nitroaniline	93		96		41-125	3		50
Dibenzofuran	91		90		40-140	1		50
2-Methylnaphthalene	92		91		40-140	1		50
1,2,4,5-Tetrachlorobenzene	81		80		40-117	1		50
Acetophenone	94		92		14-144	2		50
2,4,6-Trichlorophenol	112		110		30-130	2		50
P-Chloro-M-Cresol	**114**	Q	**112**	Q	26-103	2		50
2-Chlorophenol	98		96		25-102	2		50
2,4-Dichlorophenol	107		105		30-130	2		50
2,4-Dimethylphenol	116		117		30-130	1		50
2-Nitrophenol	96		97		30-130	1		50
4-Nitrophenol	**125**	Q	**120**	Q	11-114	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG669377-2 WG669377-3								
2,4-Dinitrophenol	77		78		4-130	1		50
4,6-Dinitro-o-cresol	94		97		10-130	3		50
Pentachlorophenol	81		84		17-109	4		50
Phenol	**97**	Q	**98**	Q	26-90	1		50
2-Methylphenol	104		105		30-130.	1		50
3-Methylphenol/4-Methylphenol	107		106		30-130	1		50
2,4,5-Trichlorophenol	115		115		30-130	0		50
Benzoic Acid	41		46			11		50
Benzyl Alcohol	104		103		40-140	1		50
Carbazole	96		95		54-128	1		50
Benzaldehyde	45		44			2		50
Caprolactam	117		117			0		50
Atrazine	108		102			6		50
2,3,4,6-Tetrachlorophenol	101		102			1		50
Pyridine	52		51		10-93	2		50
Parathion, ethyl	116		115		40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG669377-2 WG669377-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	93		91		25-120
Phenol-d6	101		98		10-120
Nitrobenzene-d5	87		85		23-120
2-Fluorobiphenyl	91		89		30-120
2,4,6-Tribromophenol	93		94		0-136
4-Terphenyl-d14	90		89		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-10 Batch: WG669651-2 WG669651-3								
Acenaphthene	72		76		31-137	5		50
Benzidine	10		21			**71**	Q	50
n-Nitrosodimethylamine	61		64			5		50
1,2,4-Trichlorobenzene	76		76		38-107	0		50
Hexachlorobenzene	84		88		40-140	5		50
Bis(2-chloroethyl)ether	71		74		40-140	4		50
2-Chloronaphthalene	86		87		40-140	1		50
1,2-Dichlorobenzene	73		77		40-140	5		50
1,3-Dichlorobenzene	74		75		40-140	1		50
1,4-Dichlorobenzene	73		74		28-104	1		50
3,3'-Dichlorobenzidine	40		53		40-140	28		50
2,4-Dinitrotoluene	87		**91**	Q	28-89	4		50
2,6-Dinitrotoluene	100		97		40-140	3		50
Fluoranthene	82		82		40-140	0		50
4-Chlorophenyl phenyl ether	77		80		40-140	4		50
4-Bromophenyl phenyl ether	81		85		40-140	5		50
Azobenzene	82		86		40-140	5		50
Bis(2-chloroisopropyl)ether	73		74		40-140	1		50
Bis(2-chloroethoxy)methane	79		83		40-117	5		50
Hexachlorobutadiene	79		83		40-140	5		50
Hexachlorocyclopentadiene	70		76		40-140	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-10 Batch: WG669651-2 WG669651-3								
Hexachloroethane	76		78		40-140	3		50
Isophorone	86		86		40-140	0		50
Naphthalene	74		80		40-140	8		50
Nitrobenzene	75		78		40-140	4		50
NitrosoDiPhenylAmine(NDPA)/DPA	81		84			4		50
n-Nitrosodi-n-propylamine	81		83		32-121	2		50
Bis(2-Ethylhexyl)phthalate	82		83		40-140	1		50
Butyl benzyl phthalate	81		81		40-140	0		50
Di-n-butylphthalate	83		84		40-140	1		50
Di-n-octylphthalate	83		85		40-140	2		50
Diethyl phthalate	85		88		40-140	3		50
Dimethyl phthalate	84		89		40-140	6		50
Benzo(a)anthracene	78		80		40-140	3		50
Benzo(a)pyrene	79		82		40-140	4		50
Benzo(b)fluoranthene	84		88		40-140	5		50
Benzo(k)fluoranthene	79		74		40-140	7		50
Chrysene	77		78		40-140	1		50
Acenaphthylene	87		89		40-140	2		50
Anthracene	78		81		40-140	4		50
Benzo(ghi)perylene	74		75		40-140	1		50
Fluorene	77		81		40-140	5		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-10 Batch: WG669651-2 WG669651-3								
Phenanthrene	78		78		40-140	0		50
Dibenzo(a,h)anthracene	77		78		40-140	1		50
Indeno(1,2,3-cd)Pyrene	78		79		40-140	1		50
Pyrene	77		78		35-142	1		50
Biphenyl	73		77			5		50
Aniline	**30**	Q	50		40-140	50		50
4-Chloroaniline	**17**	Q	**23**	Q	40-140	30		50
2-Nitroaniline	95		95		47-134	0		50
3-Nitroaniline	27		45		26-129	50		50
4-Nitroaniline	85		85		41-125	0		50
Dibenzofuran	76		80		40-140	5		50
2-Methylnaphthalene	78		82		40-140	5		50
1,2,4,5-Tetrachlorobenzene	68		74		40-117	8		50
Acetophenone	92		93		14-144	1		50
2,4,6-Trichlorophenol	98		99		30-130	1		50
P-Chloro-M-Cresol	96		93		26-103	3		50
2-Chlorophenol	82		82		25-102	0		50
2,4-Dichlorophenol	92		95		30-130	3		50
2,4-Dimethylphenol	89		91		30-130	2		50
2-Nitrophenol	87		89		30-130	2		50
4-Nitrophenol	98		98		11-114	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402992

Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-10 Batch: WG669651-2 WG669651-3								
2,4-Dinitrophenol	84		85		4-130	1		50
4,6-Dinitro-o-cresol	93		92		10-130	1		50
Pentachlorophenol	82		80		17-109	2		50
Phenol	77		79		26-90	3		50
2-Methylphenol	84		86		30-130.	2		50
3-Methylphenol/4-Methylphenol	86		88		30-130	2		50
2,4,5-Trichlorophenol	100		104		30-130	4		50
Benzoic Acid	77		73			5		50
Benzyl Alcohol	89		91		40-140	2		50
Carbazole	82		82		54-128	0		50
Benzaldehyde	72		74			3		50
Caprolactam	114		111			3		50
Atrazine	106		110			4		50
2,3,4,6-Tetrachlorophenol	93		99			6		50
Pyridine	46		54		10-93	16		50
Parathion, ethyl	**209**	Q	**206**	Q	40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402992

Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-10 Batch: WG669651-2 WG669651-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	77		77		25-120
Phenol-d6	86		86		10-120
Nitrobenzene-d5	84		84		23-120
2-Fluorobiphenyl	86		90		30-120
2,4,6-Tribromophenol	95		96		0-136
4-Terphenyl-d14	81		77		18-120

PCBS

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-01	Date Collected:	02/04/14 23:00
Client ID:	B-1 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/08/14 00:30
Analytical Date:	02/08/14 22:57	Cleanup Method1:	EPA 3665A
Analyst:	TQ	Cleanup Date1:	02/08/14
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/08/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.9	3.00	1	A
Aroclor 1221	ND		ug/kg	37.9	3.50	1	A
Aroclor 1232	ND		ug/kg	37.9	4.44	1	A
Aroclor 1242	ND		ug/kg	37.9	4.64	1	A
Aroclor 1248	ND		ug/kg	37.9	3.20	1	A
Aroclor 1254	ND		ug/kg	37.9	3.12	1	A
Aroclor 1260	17.8	J	ug/kg	37.9	2.89	1	A
Aroclor 1262	ND		ug/kg	37.9	1.88	1	A
Aroclor 1268	ND		ug/kg	37.9	5.50	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-02	Date Collected:	02/04/14 23:00
Client ID:	B-1 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/08/14 00:30
Analytical Date:	02/08/14 23:11	Cleanup Method1:	EPA 3665A
Analyst:	TQ	Cleanup Date1:	02/08/14
Percent Solids:	80%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/08/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.3	3.11	1	A
Aroclor 1221	ND		ug/kg	39.3	3.63	1	A
Aroclor 1232	ND		ug/kg	39.3	4.61	1	A
Aroclor 1242	ND		ug/kg	39.3	4.81	1	A
Aroclor 1248	ND		ug/kg	39.3	3.32	1	A
Aroclor 1254	ND		ug/kg	39.3	3.23	1	A
Aroclor 1260	ND		ug/kg	39.3	3.00	1	A
Aroclor 1262	ND		ug/kg	39.3	1.95	1	A
Aroclor 1268	ND		ug/kg	39.3	5.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	A
Decachlorobiphenyl	108		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-03	Date Collected:	02/04/14 22:00
Client ID:	B-2 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/08/14 00:30
Analytical Date:	02/08/14 23:24	Cleanup Method1:	EPA 3665A
Analyst:	TQ	Cleanup Date1:	02/08/14
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/08/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.8	2.99	1	A
Aroclor 1221	ND		ug/kg	37.8	3.49	1	A
Aroclor 1232	ND		ug/kg	37.8	4.43	1	A
Aroclor 1242	ND		ug/kg	37.8	4.63	1	A
Aroclor 1248	ND		ug/kg	37.8	3.19	1	A
Aroclor 1254	ND		ug/kg	37.8	3.11	1	A
Aroclor 1260	22.2	J	ug/kg	37.8	2.88	1	A
Aroclor 1262	ND		ug/kg	37.8	1.88	1	A
Aroclor 1268	ND		ug/kg	37.8	5.48	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-04	Date Collected:	02/04/14 22:00
Client ID:	B-2 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/08/14 00:30
Analytical Date:	02/08/14 23:37	Cleanup Method1:	EPA 3665A
Analyst:	TQ	Cleanup Date1:	02/08/14
Percent Solids:	81%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/08/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.5	3.12	1	A
Aroclor 1221	ND		ug/kg	39.5	3.64	1	A
Aroclor 1232	ND		ug/kg	39.5	4.62	1	A
Aroclor 1242	ND		ug/kg	39.5	4.83	1	A
Aroclor 1248	ND		ug/kg	39.5	3.33	1	A
Aroclor 1254	ND		ug/kg	39.5	3.24	1	A
Aroclor 1260	ND		ug/kg	39.5	3.01	1	A
Aroclor 1262	ND		ug/kg	39.5	1.96	1	A
Aroclor 1268	ND		ug/kg	39.5	5.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-05	Date Collected:	02/04/14 23:00
Client ID:	B-3 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/08/14 00:30
Analytical Date:	02/08/14 23:51	Cleanup Method1:	EPA 3665A
Analyst:	TQ	Cleanup Date1:	02/08/14
Percent Solids:	88%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/08/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	2.95	1	A
Aroclor 1221	ND		ug/kg	37.4	3.45	1	A
Aroclor 1232	ND		ug/kg	37.4	4.38	1	A
Aroclor 1242	ND		ug/kg	37.4	4.58	1	A
Aroclor 1248	ND		ug/kg	37.4	3.16	1	A
Aroclor 1254	ND		ug/kg	37.4	3.07	1	A
Aroclor 1260	ND		ug/kg	37.4	2.85	1	A
Aroclor 1262	ND		ug/kg	37.4	1.85	1	A
Aroclor 1268	ND		ug/kg	37.4	5.42	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-06	Date Collected:	02/04/14 23:00
Client ID:	B-3 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/10/14 19:18
Analytical Date:	02/11/14 17:42	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	02/11/14
Percent Solids:	76%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/11/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.2	3.42	1	A
Aroclor 1221	ND		ug/kg	43.2	3.99	1	A
Aroclor 1232	ND		ug/kg	43.2	5.07	1	A
Aroclor 1242	ND		ug/kg	43.2	5.29	1	A
Aroclor 1248	ND		ug/kg	43.2	3.65	1	A
Aroclor 1254	ND		ug/kg	43.2	3.56	1	A
Aroclor 1260	ND		ug/kg	43.2	3.30	1	A
Aroclor 1262	ND		ug/kg	43.2	2.14	1	A
Aroclor 1268	ND		ug/kg	43.2	6.27	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	108		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-07	Date Collected:	02/04/14 20:00
Client ID:	B-4 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/10/14 19:18
Analytical Date:	02/11/14 17:55	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	02/11/14
Percent Solids:	91%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/11/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.4	2.88	1	A
Aroclor 1221	ND		ug/kg	36.4	3.36	1	A
Aroclor 1232	ND		ug/kg	36.4	4.27	1	A
Aroclor 1242	ND		ug/kg	36.4	4.46	1	A
Aroclor 1248	ND		ug/kg	36.4	3.07	1	A
Aroclor 1254	ND		ug/kg	36.4	2.99	1	A
Aroclor 1260	10.8	J	ug/kg	36.4	2.77	1	B
Aroclor 1262	ND		ug/kg	36.4	1.80	1	A
Aroclor 1268	ND		ug/kg	36.4	5.28	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-08	Date Collected:	02/04/14 20:00
Client ID:	B-4 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/10/14 19:01
Analytical Date:	02/11/14 18:08	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	02/11/14
Percent Solids:	72%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/11/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.7	3.45	1	A
Aroclor 1221	ND		ug/kg	43.7	4.03	1	A
Aroclor 1232	ND		ug/kg	43.7	5.12	1	A
Aroclor 1242	ND		ug/kg	43.7	5.35	1	A
Aroclor 1248	ND		ug/kg	43.7	3.69	1	A
Aroclor 1254	ND		ug/kg	43.7	3.59	1	A
Aroclor 1260	ND		ug/kg	43.7	3.33	1	A
Aroclor 1262	ND		ug/kg	43.7	2.17	1	A
Aroclor 1268	ND		ug/kg	43.7	6.34	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	108		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-09	Date Collected:	02/04/14 21:00
Client ID:	B-5 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/10/14 19:01
Analytical Date:	02/11/14 18:22	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	02/11/14
Percent Solids:	88%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/11/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.5	2.81	1	A
Aroclor 1221	ND		ug/kg	35.5	3.28	1	A
Aroclor 1232	ND		ug/kg	35.5	4.16	1	A
Aroclor 1242	ND		ug/kg	35.5	4.35	1	A
Aroclor 1248	ND		ug/kg	35.5	3.00	1	A
Aroclor 1254	ND		ug/kg	35.5	2.92	1	A
Aroclor 1260	ND		ug/kg	35.5	2.71	1	A
Aroclor 1262	ND		ug/kg	35.5	1.76	1	A
Aroclor 1268	ND		ug/kg	35.5	5.15	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-10	Date Collected:	02/04/14 21:00
Client ID:	B-5 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	02/10/14 19:01
Analytical Date:	02/11/14 18:35	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	02/11/14
Percent Solids:	81%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/11/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.9	3.15	1	A
Aroclor 1221	ND		ug/kg	39.9	3.68	1	A
Aroclor 1232	ND		ug/kg	39.9	4.68	1	A
Aroclor 1242	ND		ug/kg	39.9	4.88	1	A
Aroclor 1248	ND		ug/kg	39.9	3.37	1	A
Aroclor 1254	ND		ug/kg	39.9	3.28	1	A
Aroclor 1260	ND		ug/kg	39.9	3.04	1	A
Aroclor 1262	ND		ug/kg	39.9	1.98	1	A
Aroclor 1268	ND		ug/kg	39.9	5.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	104		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	122		30-150	B

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/08/14 20:33
Analyst: TQ

Extraction Method: EPA 3546
Extraction Date: 02/08/14 00:30
Cleanup Method1: EPA 3665A
Cleanup Date1: 02/08/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 02/08/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-05 Batch: WG669351-1						
Aroclor 1016	ND		ug/kg	32.6	2.57	A
Aroclor 1221	ND		ug/kg	32.6	3.00	A
Aroclor 1232	ND		ug/kg	32.6	3.82	A
Aroclor 1242	ND		ug/kg	32.6	3.99	A
Aroclor 1248	ND		ug/kg	32.6	2.75	A
Aroclor 1254	ND		ug/kg	32.6	2.68	A
Aroclor 1260	ND		ug/kg	32.6	2.48	A
Aroclor 1262	ND		ug/kg	32.6	1.62	A
Aroclor 1268	ND		ug/kg	32.6	4.73	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/11/14 18:48
Analyst: KB

Extraction Method: EPA 3546
Extraction Date: 02/10/14 19:01
Cleanup Method1: EPA 3665A
Cleanup Date1: 02/11/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 02/11/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 06-10 Batch: WG669641-1						
Aroclor 1016	ND		ug/kg	32.3	2.55	A
Aroclor 1221	ND		ug/kg	32.3	2.98	A
Aroclor 1232	ND		ug/kg	32.3	3.79	A
Aroclor 1242	ND		ug/kg	32.3	3.96	A
Aroclor 1248	ND		ug/kg	32.3	2.73	A
Aroclor 1254	ND		ug/kg	32.3	2.66	A
Aroclor 1260	ND		ug/kg	32.3	2.46	A
Aroclor 1262	ND		ug/kg	32.3	1.60	A
Aroclor 1268	ND		ug/kg	32.3	4.69	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	97		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG669351-2 WG669351-3									
Aroclor 1016	80		98		40-140	20		50	A
Aroclor 1260	66		76		40-140	14		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		99		30-150	A
Decachlorobiphenyl	80		95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		93		30-150	B
Decachlorobiphenyl	61		70		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402992

Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 06-10 Batch: WG669641-2 WG669641-3									
Aroclor 1016	85		80		40-140	6		50	A
Aroclor 1260	82		79		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		90		30-150	A
Decachlorobiphenyl	86		83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		86		30-150	B
Decachlorobiphenyl	102		97		30-150	B

PESTICIDES

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-01	Date Collected:	02/04/14 23:00
Client ID:	B-1 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/08/14 12:39
Analytical Date:	02/10/14 09:43	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/09/14
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.78	0.349	1	A
Lindane	ND		ug/kg	0.742	0.332	1	A
Alpha-BHC	ND		ug/kg	0.742	0.211	1	A
Beta-BHC	ND		ug/kg	1.78	0.675	1	A
Heptachlor	ND		ug/kg	0.890	0.399	1	A
Aldrin	ND		ug/kg	1.78	0.627	1	A
Heptachlor epoxide	ND		ug/kg	3.34	1.00	1	A
Endrin	ND		ug/kg	0.742	0.304	1	A
Endrin ketone	ND		ug/kg	1.78	0.458	1	A
Dieldrin	ND		ug/kg	1.11	0.556	1	A
4,4'-DDE	ND		ug/kg	1.78	0.412	1	A
4,4'-DDD	ND		ug/kg	1.78	0.635	1	A
4,4'-DDT	ND		ug/kg	3.34	1.43	1	A
Endosulfan I	ND		ug/kg	1.78	0.420	1	A
Endosulfan II	ND		ug/kg	1.78	0.595	1	A
Endosulfan sulfate	ND		ug/kg	0.742	0.339	1	A
Methoxychlor	ND		ug/kg	3.34	1.04	1	A
Toxaphene	ND		ug/kg	33.4	9.34	1	A
cis-Chlordane	ND		ug/kg	2.22	0.620	1	A
trans-Chlordane	ND		ug/kg	2.22	0.587	1	A
Chlordane	ND		ug/kg	14.5	5.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-01	Date Collected:	02/04/14 23:00
Client ID:	B-1 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	02/07/14 05:53
Analytical Date:	02/10/14 20:12	Methylation Date:	02/08/14 17:26
Analyst:	SH		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	191	23.2	1	A
2,4,5-T	ND		ug/kg	191	11.9	1	A
2,4,5-TP (Silvex)	ND		ug/kg	191	10.5	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	66		30-150	A
DCAA	66		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-02	Date Collected:	02/04/14 23:00
Client ID:	B-1 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/08/14 12:39
Analytical Date:	02/10/14 09:56	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/09/14
Percent Solids:	80%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.94	0.380	1	A
Lindane	ND		ug/kg	0.808	0.361	1	A
Alpha-BHC	ND		ug/kg	0.808	0.229	1	A
Beta-BHC	ND		ug/kg	1.94	0.735	1	A
Heptachlor	ND		ug/kg	0.969	0.434	1	A
Aldrin	ND		ug/kg	1.94	0.682	1	A
Heptachlor epoxide	ND		ug/kg	3.63	1.09	1	A
Endrin	ND		ug/kg	0.808	0.331	1	A
Endrin ketone	ND		ug/kg	1.94	0.499	1	A
Dieldrin	ND		ug/kg	1.21	0.606	1	A
4,4'-DDE	ND		ug/kg	1.94	0.448	1	A
4,4'-DDD	ND		ug/kg	1.94	0.691	1	A
4,4'-DDT	ND		ug/kg	3.63	1.56	1	A
Endosulfan I	ND		ug/kg	1.94	0.458	1	A
Endosulfan II	ND		ug/kg	1.94	0.648	1	A
Endosulfan sulfate	ND		ug/kg	0.808	0.369	1	A
Methoxychlor	ND		ug/kg	3.63	1.13	1	A
Toxaphene	ND		ug/kg	36.3	10.2	1	A
cis-Chlordane	ND		ug/kg	2.42	0.675	1	A
trans-Chlordane	ND		ug/kg	2.42	0.640	1	A
Chlordane	ND		ug/kg	15.7	6.42	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**344**	Q	30-150	A
Decachlorobiphenyl	38		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	99		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-02	Date Collected:	02/04/14 23:00
Client ID:	B-1 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	02/07/14 05:53
Analytical Date:	02/10/14 20:32	Methylation Date:	02/08/14 17:26
Analyst:	SH		
Percent Solids:	80%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	205	24.9	1	A
2,4,5-T	ND		ug/kg	205	12.8	1	A
2,4,5-TP (Silvex)	ND		ug/kg	205	11.3	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	71		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-03	Date Collected:	02/04/14 22:00
Client ID:	B-2 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/08/14 12:39
Analytical Date:	02/10/14 17:07	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/10/14
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.82	0.357	1	A
Lindane	ND		ug/kg	0.760	0.340	1	A
Alpha-BHC	ND		ug/kg	0.760	0.216	1	A
Beta-BHC	ND		ug/kg	1.82	0.692	1	A
Heptachlor	ND		ug/kg	0.912	0.409	1	A
Aldrin	ND		ug/kg	1.82	0.642	1	A
Heptachlor epoxide	ND		ug/kg	3.42	1.03	1	A
Endrin	ND		ug/kg	0.760	0.312	1	A
Endrin ketone	ND		ug/kg	1.82	0.470	1	A
Dieldrin	ND		ug/kg	1.14	0.570	1	A
4,4'-DDE	18.1		ug/kg	1.82	0.422	1	A
4,4'-DDD	6.96	P	ug/kg	1.82	0.651	1	A
4,4'-DDT	21.8		ug/kg	3.42	1.47	1	A
Endosulfan I	ND		ug/kg	1.82	0.431	1	A
Endosulfan II	4.41	P	ug/kg	1.82	0.610	1	B
Endosulfan sulfate	ND		ug/kg	0.760	0.348	1	A
Methoxychlor	ND		ug/kg	3.42	1.06	1	A
Toxaphene	ND		ug/kg	34.2	9.58	1	A
cis-Chlordane	7.95	P	ug/kg	2.28	0.636	1	A
trans-Chlordane	6.26	P	ug/kg	2.28	0.602	1	A
Chlordane	ND		ug/kg	14.8	6.04	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	104		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-03	Date Collected:	02/04/14 22:00
Client ID:	B-2 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	02/07/14 05:53
Analytical Date:	02/10/14 20:52	Methylation Date:	02/08/14 17:26
Analyst:	SH		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	190	23.1	1	A
2,4,5-T	ND		ug/kg	190	11.9	1	A
2,4,5-TP (Silvex)	ND		ug/kg	190	10.5	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	72		30-150	A
DCAA	**23**	Q	30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-04	Date Collected:	02/04/14 22:00
Client ID:	B-2 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/08/14 12:39
Analytical Date:	02/10/14 17:20	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/10/14
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.88	0.367	1	A
Lindane	ND		ug/kg	0.781	0.349	1	A
Alpha-BHC	ND		ug/kg	0.781	0.222	1	A
Beta-BHC	ND		ug/kg	1.88	0.711	1	A
Heptachlor	ND		ug/kg	0.938	0.420	1	A
Aldrin	ND		ug/kg	1.88	0.660	1	A
Heptachlor epoxide	ND		ug/kg	3.52	1.05	1	A
Endrin	ND		ug/kg	0.781	0.320	1	A
Endrin ketone	ND		ug/kg	1.88	0.483	1	A
Dieldrin	ND		ug/kg	1.17	0.586	1	A
4,4'-DDE	ND		ug/kg	1.88	0.434	1	A
4,4'-DDD	ND		ug/kg	1.88	0.669	1	A
4,4'-DDT	ND		ug/kg	3.52	1.51	1	A
Endosulfan I	ND		ug/kg	1.88	0.443	1	A
Endosulfan II	ND		ug/kg	1.88	0.627	1	A
Endosulfan sulfate	ND		ug/kg	0.781	0.357	1	A
Methoxychlor	ND		ug/kg	3.52	1.09	1	A
Toxaphene	ND		ug/kg	35.2	9.84	1	A
cis-Chlordane	ND		ug/kg	2.34	0.653	1	A
trans-Chlordane	ND		ug/kg	2.34	0.619	1	A
Chlordane	ND		ug/kg	15.2	6.21	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-04	Date Collected:	02/04/14 22:00
Client ID:	B-2 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	02/07/14 05:53
Analytical Date:	02/10/14 21:12	Methylation Date:	02/08/14 17:26
Analyst:	SH		
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	201	24.5	1	A
2,4,5-T	ND		ug/kg	201	12.6	1	A
2,4,5-TP (Silvex)	ND		ug/kg	201	11.1	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	78		30-150	A
DCAA	31		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-05	Date Collected:	02/04/14 23:00
Client ID:	B-3 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/08/14 12:39
Analytical Date:	02/10/14 17:33	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/10/14
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.78	0.348	1	A
Lindane	ND		ug/kg	0.740	0.331	1	A
Alpha-BHC	ND		ug/kg	0.740	0.210	1	A
Beta-BHC	ND		ug/kg	1.78	0.674	1	A
Heptachlor	ND		ug/kg	0.888	0.398	1	A
Aldrin	ND		ug/kg	1.78	0.626	1	A
Heptachlor epoxide	ND		ug/kg	3.33	0.999	1	A
Endrin	ND		ug/kg	0.740	0.304	1	A
Endrin ketone	ND		ug/kg	1.78	0.458	1	A
Dieldrin	ND		ug/kg	1.11	0.555	1	A
4,4'-DDE	ND		ug/kg	1.78	0.411	1	A
4,4'-DDD	ND		ug/kg	1.78	0.634	1	A
4,4'-DDT	1.90	J	ug/kg	3.33	1.43	1	A
Endosulfan I	ND		ug/kg	1.78	0.420	1	A
Endosulfan II	ND		ug/kg	1.78	0.594	1	A
Endosulfan sulfate	ND		ug/kg	0.740	0.338	1	A
Methoxychlor	ND		ug/kg	3.33	1.04	1	A
Toxaphene	ND		ug/kg	33.3	9.33	1	A
cis-Chlordane	ND		ug/kg	2.22	0.619	1	A
trans-Chlordane	ND		ug/kg	2.22	0.586	1	A
Chlordane	ND		ug/kg	14.4	5.88	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-05	Date Collected:	02/04/14 23:00
Client ID:	B-3 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	02/07/14 05:53
Analytical Date:	02/10/14 21:32	Methylation Date:	02/08/14 17:26
Analyst:	SH		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	188	22.8	1	A
2,4,5-T	ND		ug/kg	188	11.7	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	10.4	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	74		30-150	A
DCAA	**27**	Q	30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-06	Date Collected:	02/04/14 23:00
Client ID:	B-3 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/10/14 16:13
Analytical Date:	02/12/14 14:01	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/11/14
Percent Solids:	76%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.06	0.404	1	A
Lindane	ND		ug/kg	0.860	0.385	1	A
Alpha-BHC	ND		ug/kg	0.860	0.244	1	A
Beta-BHC	ND		ug/kg	2.06	0.783	1	A
Heptachlor	ND		ug/kg	1.03	0.463	1	A
Aldrin	ND		ug/kg	2.06	0.727	1	A
Heptachlor epoxide	ND		ug/kg	3.87	1.16	1	A
Endrin	ND		ug/kg	0.860	0.353	1	A
Endrin ketone	ND		ug/kg	2.06	0.532	1	A
Dieldrin	ND		ug/kg	1.29	0.645	1	A
4,4'-DDE	ND		ug/kg	2.06	0.478	1	A
4,4'-DDD	ND		ug/kg	2.06	0.737	1	A
4,4'-DDT	ND		ug/kg	3.87	1.66	1	A
Endosulfan I	ND		ug/kg	2.06	0.488	1	A
Endosulfan II	ND		ug/kg	2.06	0.690	1	A
Endosulfan sulfate	ND		ug/kg	0.860	0.393	1	A
Methoxychlor	ND		ug/kg	3.87	1.20	1	A
Toxaphene	ND		ug/kg	38.7	10.8	1	A
cis-Chlordane	ND		ug/kg	2.58	0.719	1	A
trans-Chlordane	ND		ug/kg	2.58	0.682	1	A
Chlordane	ND		ug/kg	16.8	6.84	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**3380**	Q	30-150	A
Decachlorobiphenyl	41		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-06	Date Collected:	02/04/14 23:00
Client ID:	B-3 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	02/07/14 05:53
Analytical Date:	02/10/14 21:52	Methylation Date:	02/08/14 17:26
Analyst:	SH		
Percent Solids:	76%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	217	26.3	1	A
2,4,5-T	ND		ug/kg	217	13.5	1	A
2,4,5-TP (Silvex)	ND		ug/kg	217	12.0	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	49		30-150	A
DCAA	32		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-07	Date Collected:	02/04/14 20:00
Client ID:	B-4 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	02/07/14 05:53
Analytical Date:	02/10/14 22:12	Methylation Date:	02/08/14 17:26
Analyst:	SH		
Percent Solids:	91%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	182	22.2	1	A
2,4,5-T	ND		ug/kg	182	11.4	1	A
2,4,5-TP (Silvex)	ND		ug/kg	182	10.1	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	66		30-150	A
DCAA	**27**	Q	30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-07 D	Date Collected:	02/04/14 20:00
Client ID:	B-4 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/10/14 16:13
Analytical Date:	02/12/14 14:14	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/11/14
Percent Solids:	91%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	33.6	6.59	20	A
Lindane	ND		ug/kg	14.0	6.26	20	A
Alpha-BHC	ND		ug/kg	14.0	3.98	20	A
Beta-BHC	ND		ug/kg	33.6	12.8	20	A
Heptachlor	ND		ug/kg	16.8	7.54	20	A
Aldrin	ND		ug/kg	33.6	11.8	20	A
Heptachlor epoxide	ND		ug/kg	63.1	18.9	20	A
Endrin	ND		ug/kg	14.0	5.75	20	A
Endrin ketone	ND		ug/kg	33.6	8.66	20	A
Dieldrin	ND		ug/kg	21.0	10.5	20	A
4,4'-DDE	ND		ug/kg	33.6	7.78	20	A
4,4'-DDD	ND		ug/kg	33.6	12.0	20	A
4,4'-DDT	ND		ug/kg	63.1	27.0	20	A
Endosulfan I	ND		ug/kg	33.6	7.95	20	A
Endosulfan II	ND		ug/kg	33.6	11.2	20	A
Endosulfan sulfate	ND		ug/kg	14.0	6.40	20	A
Methoxychlor	ND		ug/kg	63.1	19.6	20	A
Toxaphene	ND		ug/kg	631	177.	20	A
cis-Chlordane	ND		ug/kg	42.0	11.7	20	A
trans-Chlordane	ND		ug/kg	42.0	11.1	20	A
Chlordane	ND		ug/kg	273	111.	20	A

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

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-08	Date Collected:	02/04/14 20:00
Client ID:	B-4 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/08/14 12:39
Analytical Date:	02/10/14 17:46	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/10/14
Percent Solids:	72%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.10	0.411	1	A
Lindane	ND		ug/kg	0.874	0.391	1	A
Alpha-BHC	ND		ug/kg	0.874	0.248	1	A
Beta-BHC	ND		ug/kg	2.10	0.796	1	A
Heptachlor	ND		ug/kg	1.05	0.470	1	A
Aldrin	ND		ug/kg	2.10	0.739	1	A
Heptachlor epoxide	ND		ug/kg	3.94	1.18	1	A
Endrin	ND		ug/kg	0.874	0.358	1	A
Endrin ketone	ND		ug/kg	2.10	0.540	1	A
Dieldrin	ND		ug/kg	1.31	0.656	1	A
4,4'-DDE	ND		ug/kg	2.10	0.485	1	A
4,4'-DDD	ND		ug/kg	2.10	0.748	1	A
4,4'-DDT	ND		ug/kg	3.94	1.69	1	A
Endosulfan I	ND		ug/kg	2.10	0.496	1	A
Endosulfan II	ND		ug/kg	2.10	0.701	1	A
Endosulfan sulfate	ND		ug/kg	0.874	0.400	1	A
Methoxychlor	ND		ug/kg	3.94	1.22	1	A
Toxaphene	ND		ug/kg	39.4	11.0	1	A
cis-Chlordane	ND		ug/kg	2.62	0.731	1	A
trans-Chlordane	ND		ug/kg	2.62	0.693	1	A
Chlordane	ND		ug/kg	17.0	6.95	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**2950**	Q	30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	36		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-08	Date Collected:	02/04/14 20:00
Client ID:	B-4 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	02/07/14 05:53
Analytical Date:	02/10/14 22:32	Methylation Date:	02/08/14 17:26
Analyst:	SH		
Percent Solids:	72%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	227	27.6	1	A
2,4,5-T	ND		ug/kg	227	14.2	1	A
2,4,5-TP (Silvex)	ND		ug/kg	227	12.5	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	35		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-09	Date Collected:	02/04/14 21:00
Client ID:	B-5 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	02/07/14 05:53
Analytical Date:	02/10/14 22:52	Methylation Date:	02/08/14 17:26
Analyst:	SH		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	187	22.7	1	A
2,4,5-T	ND		ug/kg	187	11.7	1	A
2,4,5-TP (Silvex)	ND		ug/kg	187	10.3	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	62		30-150	A
DCAA	45		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-09 D	Date Collected:	02/04/14 21:00
Client ID:	B-5 (0-2')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/10/14 16:13
Analytical Date:	02/12/14 14:27	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/11/14
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	35.1	6.87	20	A
Lindane	ND		ug/kg	14.6	6.53	20	A
Alpha-BHC	ND		ug/kg	14.6	4.15	20	A
Beta-BHC	ND		ug/kg	35.1	13.3	20	A
Heptachlor	ND		ug/kg	17.5	7.86	20	A
Aldrin	ND		ug/kg	35.1	12.3	20	A
Heptachlor epoxide	ND		ug/kg	65.8	19.7	20	A
Endrin	ND		ug/kg	14.6	5.99	20	A
Endrin ketone	ND		ug/kg	35.1	9.03	20	A
Dieldrin	ND		ug/kg	21.9	11.0	20	A
4,4'-DDE	ND		ug/kg	35.1	8.11	20	A
4,4'-DDD	ND		ug/kg	35.1	12.5	20	A
4,4'-DDT	ND		ug/kg	65.8	28.2	20	A
Endosulfan I	ND		ug/kg	35.1	8.28	20	A
Endosulfan II	ND		ug/kg	35.1	11.7	20	A
Endosulfan sulfate	ND		ug/kg	14.6	6.68	20	A
Methoxychlor	ND		ug/kg	65.8	20.4	20	A
Toxaphene	ND		ug/kg	658	184.	20	A
cis-Chlordane	ND		ug/kg	43.8	12.2	20	A
trans-Chlordane	ND		ug/kg	43.8	11.6	20	A
Chlordane	ND		ug/kg	285	116.	20	A

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

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-10	Date Collected:	02/04/14 21:00
Client ID:	B-5 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/10/14 16:13
Analytical Date:	02/12/14 14:39	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/11/14
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.79	0.350	1	A
Lindane	ND		ug/kg	0.744	0.333	1	A
Alpha-BHC	ND		ug/kg	0.744	0.211	1	A
Beta-BHC	ND		ug/kg	1.79	0.678	1	A
Heptachlor	ND		ug/kg	0.893	0.400	1	A
Aldrin	ND		ug/kg	1.79	0.629	1	A
Heptachlor epoxide	ND		ug/kg	3.35	1.00	1	A
Endrin	ND		ug/kg	0.744	0.305	1	A
Endrin ketone	ND		ug/kg	1.79	0.460	1	A
Dieldrin	ND		ug/kg	1.12	0.558	1	A
4,4'-DDE	ND		ug/kg	1.79	0.413	1	A
4,4'-DDD	ND		ug/kg	1.79	0.637	1	A
4,4'-DDT	ND		ug/kg	3.35	1.44	1	A
Endosulfan I	ND		ug/kg	1.79	0.422	1	A
Endosulfan II	ND		ug/kg	1.79	0.597	1	A
Endosulfan sulfate	ND		ug/kg	0.744	0.340	1	A
Methoxychlor	ND		ug/kg	3.35	1.04	1	A
Toxaphene	ND		ug/kg	33.5	9.38	1	A
cis-Chlordane	ND		ug/kg	2.23	0.622	1	A
trans-Chlordane	ND		ug/kg	2.23	0.590	1	A
Chlordane	ND		ug/kg	14.5	5.92	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**392**	Q	30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	99		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID:	L1402992-10	Date Collected:	02/04/14 21:00
Client ID:	B-5 (12-14')	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	02/07/14 05:53
Analytical Date:	02/10/14 23:12	Methylation Date:	02/08/14 17:26
Analyst:	SH		
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	202	24.6	1	A
2,4,5-T	ND		ug/kg	202	12.6	1	A
2,4,5-TP (Silvex)	ND		ug/kg	202	11.2	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	74		30-150	A
DCAA	**21**	Q	30-150	B

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 02/10/14 13:33
Analyst: SH

Extraction Method: EPA 8151A
Extraction Date: 02/07/14 03:50

Methylation Date: 02/08/14 17:26

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-10 Batch: WG669118-1						
2,4-D	ND		ug/kg	162	19.7	A
2,4,5-T	ND		ug/kg	162	10.1	A
2,4,5-TP (Silvex)	ND		ug/kg	162	8.93	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	73		30-150	A
DCAA	38		30-150	B

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/10/14 09:05
Analyst: SH

Extraction Method: EPA 3546
Extraction Date: 02/08/14 12:39
Cleanup Method1: EPA 3620B
Cleanup Date1: 02/09/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05,08 Batch: WG669416-1						
Delta-BHC	ND		ug/kg	1.56	0.305	A
Lindane	ND		ug/kg	0.648	0.290	A
Alpha-BHC	ND		ug/kg	0.648	0.184	A
Beta-BHC	ND		ug/kg	1.56	0.590	A
Heptachlor	ND		ug/kg	0.778	0.349	A
Aldrin	ND		ug/kg	1.56	0.548	A
Heptachlor epoxide	ND		ug/kg	2.92	0.875	A
Endrin	ND		ug/kg	0.648	0.266	A
Endrin ketone	ND		ug/kg	1.56	0.401	A
Dieldrin	ND		ug/kg	0.973	0.486	A
4,4'-DDE	ND		ug/kg	1.56	0.360	A
4,4'-DDD	ND		ug/kg	1.56	0.555	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.368	A
Endosulfan II	ND		ug/kg	1.56	0.520	A
Endosulfan sulfate	ND		ug/kg	0.648	0.296	A
Methoxychlor	ND		ug/kg	2.92	0.908	A
Toxaphene	ND		ug/kg	29.2	8.17	A
cis-Chlordane	ND		ug/kg	1.94	0.542	A
trans-Chlordane	ND		ug/kg	1.94	0.514	A
Chlordane	ND		ug/kg	12.6	5.16	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/12/14 13:09
Analyst: SH

Extraction Method: EPA 3546
Extraction Date: 02/10/14 16:13
Cleanup Method1: EPA 3620B
Cleanup Date1: 02/11/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06-07,09-10 Batch: WG669623-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.655	0.293	A
Alpha-BHC	ND		ug/kg	0.655	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.596	A
Heptachlor	ND		ug/kg	0.786	0.352	A
Aldrin	ND		ug/kg	1.57	0.553	A
Heptachlor epoxide	ND		ug/kg	2.95	0.884	A
Endrin	ND		ug/kg	0.655	0.268	A
Endrin ketone	ND		ug/kg	1.57	0.405	A
Dieldrin	ND		ug/kg	0.982	0.491	A
4,4'-DDE	ND		ug/kg	1.57	0.363	A
4,4'-DDD	ND		ug/kg	1.57	0.560	A
4,4'-DDT	ND		ug/kg	2.95	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.371	A
Endosulfan II	ND		ug/kg	1.57	0.525	A
Endosulfan sulfate	ND		ug/kg	0.655	0.299	A
Methoxychlor	ND		ug/kg	2.95	0.917	A
Toxaphene	ND		ug/kg	29.5	8.25	A
cis-Chlordane	ND		ug/kg	1.96	0.547	A
trans-Chlordane	ND		ug/kg	1.96	0.519	A
Chlordane	ND		ug/kg	12.8	5.21	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	81		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG669118-2 WG669118-3									
2,4-D	118		131		30-150	10		30	A
2,4,5-T	98		99		30-150	1		30	A
2,4,5-TP (Silvex)	93		96		30-150	3		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	70		102		30-150	A
DCAA	**19**	Q	50		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05,08 Batch: WG669416-2 WG669416-3									
Delta-BHC	66		72		30-150	9		30	A
Lindane	69		74		30-150	7		30	A
Alpha-BHC	67		72		30-150	7		30	A
Beta-BHC	68		78		30-150	14		30	A
Heptachlor	66		71		30-150	7		30	A
Aldrin	70		75		30-150	7		30	A
Heptachlor epoxide	67		71		30-150	6		30	A
Endrin	70		75		30-150	7		30	A
Endrin ketone	64		70		30-150	9		30	A
Dieldrin	67		72		30-150	7		30	A
4,4'-DDE	66		71		30-150	7		30	A
4,4'-DDD	67		72		30-150	7		30	A
4,4'-DDT	72		76		30-150	5		30	A
Endosulfan I	67		71		30-150	6		30	A
Endosulfan II	67		72		30-150	7		30	A
Endosulfan sulfate	61		65		30-150	6		30	A
Methoxychlor	68		69		30-150	1		30	A
cis-Chlordane	64		69		30-150	8		30	A
trans-Chlordane	65		69		30-150	6		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402992

Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05,08 Batch: WG669416-2 WG669416-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		71		30-150	A
Decachlorobiphenyl	65		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		65		30-150	B
Decachlorobiphenyl	67		68		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06-07,09-10 Batch: WG669623-2 WG669623-3									
Delta-BHC	79		88		30-150	11		30	A
Lindane	80		89		30-150	11		30	A
Alpha-BHC	74		80		30-150	8		30	A
Beta-BHC	79		89		30-150	12		30	A
Heptachlor	76		83		30-150	9		30	A
Aldrin	77		85		30-150	10		30	A
Heptachlor epoxide	74		82		30-150	10		30	A
Endrin	76		84		30-150	10		30	A
Endrin ketone	68		80		30-150	16		30	A
Dieldrin	75		84		30-150	11		30	A
4,4'-DDE	72		80		30-150	11		30	A
4,4'-DDD	74		82		30-150	10		30	A
4,4'-DDT	74		82		30-150	10		30	A
Endosulfan I	73		81		30-150	10		30	A
Endosulfan II	73		82		30-150	12		30	A
Endosulfan sulfate	64		75		30-150	16		30	A
Methoxychlor	65		74		30-150	13		30	A
cis-Chlordane	71		79		30-150	11		30	A
trans-Chlordane	71		80		30-150	12		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402992

Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06-07,09-10 Batch: WG669623-2 WG669623-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		80		30-150	A
Decachlorobiphenyl	57		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		67		30-150	B
Decachlorobiphenyl	72		89		30-150	B

METALS

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-01
Client ID: B-1 (0-2')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Percent Solids: 87%

Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	7200		mg/kg	9.0	1.8	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Antimony, Total	0.89	J	mg/kg	4.5	0.72	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Arsenic, Total	16		mg/kg	0.90	0.18	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Barium, Total	260		mg/kg	0.90	0.27	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Beryllium, Total	0.31	J	mg/kg	0.45	0.09	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Cadmium, Total	0.40	J	mg/kg	0.90	0.06	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Calcium, Total	9400		mg/kg	9.0	2.7	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Chromium, Total	19		mg/kg	0.90	0.18	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Cobalt, Total	6.5		mg/kg	1.8	0.45	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Copper, Total	130		mg/kg	0.90	0.18	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Iron, Total	18000		mg/kg	4.5	1.8	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Lead, Total	1000		mg/kg	4.5	0.18	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Magnesium, Total	2400		mg/kg	9.0	0.90	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Manganese, Total	210		mg/kg	0.90	0.18	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Mercury, Total	29		mg/kg	8.4	1.8	100	02/12/14 11:43	02/12/14 13:36	EPA 7471B	1,7471B	AK
Nickel, Total	18		mg/kg	2.2	0.36	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Potassium, Total	1100		mg/kg	220	36.	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Selenium, Total	1.2	J	mg/kg	1.8	0.27	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Silver, Total	0.32	J	mg/kg	0.90	0.18	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Sodium, Total	360		mg/kg	180	27.	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Thallium, Total	ND		mg/kg	1.8	0.36	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Vanadium, Total	21		mg/kg	0.90	0.09	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC
Zinc, Total	360		mg/kg	4.5	0.63	2	02/07/14 12:36	02/08/14 10:33	EPA 3050B	1,6010C	BC

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-02
Client ID: B-1 (12-14')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Percent Solids: 80%

Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5800		mg/kg	9.8	2.0	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Antimony, Total	ND		mg/kg	4.9	0.78	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Arsenic, Total	9.4		mg/kg	0.98	0.20	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Barium, Total	58		mg/kg	0.98	0.29	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Beryllium, Total	0.31	J	mg/kg	0.49	0.10	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Cadmium, Total	ND		mg/kg	0.98	0.07	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Calcium, Total	2800		mg/kg	9.8	2.9	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Chromium, Total	15		mg/kg	0.98	0.20	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Cobalt, Total	6.2		mg/kg	2.0	0.49	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Copper, Total	35		mg/kg	0.98	0.20	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Iron, Total	12000		mg/kg	4.9	2.0	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Lead, Total	48		mg/kg	4.9	0.20	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Magnesium, Total	2800		mg/kg	9.8	0.98	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Manganese, Total	320		mg/kg	0.98	0.20	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Mercury, Total	0.11		mg/kg	0.09	0.02	1	02/12/14 11:43	02/12/14 13:33	EPA 7471B	1,7471B	AK
Nickel, Total	24		mg/kg	2.4	0.39	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Potassium, Total	780		mg/kg	240	39.	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Selenium, Total	ND		mg/kg	2.0	0.29	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Silver, Total	ND		mg/kg	0.98	0.20	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Sodium, Total	120	J	mg/kg	200	29.	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Thallium, Total	ND		mg/kg	2.0	0.39	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Vanadium, Total	21		mg/kg	0.98	0.10	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC
Zinc, Total	55		mg/kg	4.9	0.68	2	02/07/14 12:36	02/08/14 10:37	EPA 3050B	1,6010C	BC

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-03
Client ID: B-2 (0-2')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Percent Solids: 87%

Date Collected: 02/04/14 22:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	4300		mg/kg	8.9	1.8	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Antimony, Total	2.8	J	mg/kg	4.5	0.71	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Arsenic, Total	12		mg/kg	0.89	0.18	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Barium, Total	250		mg/kg	0.89	0.27	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Beryllium, Total	0.22	J	mg/kg	0.45	0.09	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Cadmium, Total	0.54	J	mg/kg	0.89	0.06	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Calcium, Total	15000		mg/kg	8.9	2.7	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Chromium, Total	15		mg/kg	0.89	0.18	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Cobalt, Total	5.0		mg/kg	1.8	0.45	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Copper, Total	100		mg/kg	0.89	0.18	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Iron, Total	11000		mg/kg	4.5	1.8	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Lead, Total	640		mg/kg	4.5	0.18	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Magnesium, Total	3900		mg/kg	8.9	0.89	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Manganese, Total	180		mg/kg	0.89	0.18	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Mercury, Total	2.4		mg/kg	0.07	0.02	1	02/12/14 11:43	02/12/14 13:34	EPA 7471B	1,7471B	AK
Nickel, Total	16		mg/kg	2.2	0.36	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Potassium, Total	620		mg/kg	220	36.	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Selenium, Total	ND		mg/kg	1.8	0.27	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Silver, Total	0.30	J	mg/kg	0.89	0.18	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Sodium, Total	400		mg/kg	180	27.	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Thallium, Total	ND		mg/kg	1.8	0.36	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Vanadium, Total	16		mg/kg	0.89	0.09	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC
Zinc, Total	340		mg/kg	4.5	0.62	2	02/07/14 12:36	02/08/14 10:40	EPA 3050B	1,6010C	BC

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-04
Client ID: B-2 (12-14')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Percent Solids: 81%

Date Collected: 02/04/14 22:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6000		mg/kg	9.6	1.9	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Antimony, Total	ND		mg/kg	4.8	0.77	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Arsenic, Total	6.8		mg/kg	0.96	0.19	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Barium, Total	20		mg/kg	0.96	0.29	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Beryllium, Total	0.27	J	mg/kg	0.48	0.10	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Cadmium, Total	ND		mg/kg	0.96	0.07	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Calcium, Total	760		mg/kg	9.6	2.9	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Chromium, Total	10		mg/kg	0.96	0.19	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Cobalt, Total	4.8		mg/kg	1.9	0.48	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Copper, Total	11		mg/kg	0.96	0.19	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Iron, Total	12000		mg/kg	4.8	1.9	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Lead, Total	8.8		mg/kg	4.8	0.19	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Magnesium, Total	1700		mg/kg	9.6	0.96	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Manganese, Total	180		mg/kg	0.96	0.19	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Mercury, Total	ND		mg/kg	0.09	0.02	1	02/12/14 11:43	02/12/14 13:39	EPA 7471B	1,7471B	AK
Nickel, Total	8.2		mg/kg	2.4	0.38	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Potassium, Total	510		mg/kg	240	38.	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Selenium, Total	ND		mg/kg	1.9	0.29	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Silver, Total	ND		mg/kg	0.96	0.19	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Sodium, Total	72	J	mg/kg	190	29.	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Thallium, Total	ND		mg/kg	1.9	0.38	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Vanadium, Total	15		mg/kg	0.96	0.10	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC
Zinc, Total	28		mg/kg	4.8	0.67	2	02/07/14 12:36	02/08/14 10:44	EPA 3050B	1,6010C	BC

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-05
Client ID: B-3 (0-2')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Percent Solids: 88%

Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5400		mg/kg	8.7	1.7	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Antimony, Total	ND		mg/kg	4.4	0.70	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Arsenic, Total	8.6		mg/kg	0.87	0.17	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Barium, Total	61		mg/kg	0.87	0.26	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Beryllium, Total	0.32	J	mg/kg	0.44	0.09	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Cadmium, Total	ND		mg/kg	0.87	0.06	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Calcium, Total	3400		mg/kg	8.7	2.6	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Chromium, Total	17		mg/kg	0.87	0.17	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Cobalt, Total	6.3		mg/kg	1.7	0.44	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Copper, Total	48		mg/kg	0.87	0.17	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Iron, Total	12000		mg/kg	4.4	1.7	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Lead, Total	250		mg/kg	4.4	0.17	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Magnesium, Total	3200		mg/kg	8.7	0.87	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Manganese, Total	200		mg/kg	0.87	0.17	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Mercury, Total	2.1		mg/kg	0.09	0.02	1	02/12/14 11:43	02/12/14 13:40	EPA 7471B	1,7471B	AK
Nickel, Total	35		mg/kg	2.2	0.35	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Potassium, Total	1000		mg/kg	220	35.	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Selenium, Total	ND		mg/kg	1.7	0.26	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Silver, Total	ND		mg/kg	0.87	0.17	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Sodium, Total	110	J	mg/kg	170	26.	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Thallium, Total	ND		mg/kg	1.7	0.35	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Vanadium, Total	19		mg/kg	0.87	0.09	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC
Zinc, Total	110		mg/kg	4.4	0.61	2	02/07/14 12:36	02/08/14 10:48	EPA 3050B	1,6010C	BC

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-06
Client ID: B-3 (12-14')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Percent Solids: 76%

Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	7200		mg/kg	10	2.0	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Antimony, Total	ND		mg/kg	5.1	0.81	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Arsenic, Total	11		mg/kg	1.0	0.20	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Barium, Total	110		mg/kg	1.0	0.30	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Beryllium, Total	0.46	J	mg/kg	0.51	0.10	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Cadmium, Total	ND		mg/kg	1.0	0.07	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Calcium, Total	4300		mg/kg	10	3.0	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Chromium, Total	43		mg/kg	1.0	0.20	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Cobalt, Total	7.2		mg/kg	2.0	0.51	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Copper, Total	90		mg/kg	1.0	0.20	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Iron, Total	14000		mg/kg	5.1	2.0	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Lead, Total	690		mg/kg	5.1	0.20	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Magnesium, Total	2800		mg/kg	10	1.0	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Manganese, Total	200		mg/kg	1.0	0.20	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Mercury, Total	1.6		mg/kg	0.10	0.02	1	02/12/14 11:43	02/12/14 13:44	EPA 7471B	1,7471B	AK
Nickel, Total	30		mg/kg	2.5	0.41	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Potassium, Total	1000		mg/kg	250	41.	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Selenium, Total	0.95	J	mg/kg	2.0	0.30	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Silver, Total	ND		mg/kg	1.0	0.20	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Sodium, Total	230		mg/kg	200	30.	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Thallium, Total	ND		mg/kg	2.0	0.41	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Vanadium, Total	24		mg/kg	1.0	0.10	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC
Zinc, Total	130		mg/kg	5.1	0.71	2	02/07/14 12:36	02/08/14 10:51	EPA 3050B	1,6010C	BC

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-07
Client ID: B-4 (0-2')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Percent Solids: 91%

Date Collected: 02/04/14 20:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5300		mg/kg	8.4	1.7	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Antimony, Total	ND		mg/kg	4.2	0.67	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Arsenic, Total	14		mg/kg	0.84	0.17	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Barium, Total	85		mg/kg	0.84	0.25	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Beryllium, Total	0.26	J	mg/kg	0.42	0.08	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Cadmium, Total	0.39	J	mg/kg	0.84	0.06	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Calcium, Total	24000		mg/kg	8.4	2.5	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Chromium, Total	16		mg/kg	0.84	0.17	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Cobalt, Total	5.3		mg/kg	1.7	0.42	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Copper, Total	120		mg/kg	0.84	0.17	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Iron, Total	23000		mg/kg	4.2	1.7	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Lead, Total	300		mg/kg	4.2	0.17	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Magnesium, Total	7100		mg/kg	8.4	0.84	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Manganese, Total	240		mg/kg	0.84	0.17	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Mercury, Total	1.7		mg/kg	0.07	0.02	1	02/12/14 11:43	02/12/14 13:46	EPA 7471B	1,7471B	AK
Nickel, Total	17		mg/kg	2.1	0.34	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Potassium, Total	1100		mg/kg	210	34.	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Selenium, Total	ND		mg/kg	1.7	0.25	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Silver, Total	0.17	J	mg/kg	0.84	0.17	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Sodium, Total	290		mg/kg	170	25.	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Thallium, Total	ND		mg/kg	1.7	0.34	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Vanadium, Total	19		mg/kg	0.84	0.08	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC
Zinc, Total	250		mg/kg	4.2	0.59	2	02/07/14 12:36	02/08/14 10:55	EPA 3050B	1,6010C	BC

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-08
Client ID: B-4 (12-14')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Percent Solids: 72%

Date Collected: 02/04/14 20:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	4700		mg/kg	10	2.1	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Antimony, Total	4.7	J	mg/kg	5.2	0.83	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Arsenic, Total	21		mg/kg	1.0	0.21	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Barium, Total	340		mg/kg	1.0	0.31	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Beryllium, Total	0.34	J	mg/kg	0.52	0.10	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Cadmium, Total	ND		mg/kg	1.0	0.07	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Calcium, Total	2300		mg/kg	10	3.1	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Chromium, Total	15		mg/kg	1.0	0.21	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Cobalt, Total	5.5		mg/kg	2.1	0.52	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Copper, Total	4500		mg/kg	1.0	0.21	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Iron, Total	14000		mg/kg	5.2	2.1	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Lead, Total	1900		mg/kg	5.2	0.21	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Magnesium, Total	2000		mg/kg	10	1.0	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Manganese, Total	120		mg/kg	1.0	0.21	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Mercury, Total	2.4		mg/kg	0.11	0.02	1	02/12/14 11:43	02/12/14 13:48	EPA 7471B	1,7471B	AK
Nickel, Total	26		mg/kg	2.6	0.42	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Potassium, Total	840		mg/kg	260	42.	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Selenium, Total	2.9		mg/kg	2.1	0.31	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Silver, Total	3.2		mg/kg	1.0	0.21	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Sodium, Total	140	J	mg/kg	210	31.	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Thallium, Total	ND		mg/kg	2.1	0.42	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Vanadium, Total	18		mg/kg	1.0	0.10	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC
Zinc, Total	240		mg/kg	5.2	0.73	2	02/07/14 12:36	02/08/14 10:59	EPA 3050B	1,6010C	BC

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-09
Client ID: B-5 (0-2')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Percent Solids: 88%

Date Collected: 02/04/14 21:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5200		mg/kg	8.7	1.7	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Antimony, Total	1.0	J	mg/kg	4.3	0.69	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Arsenic, Total	10		mg/kg	0.87	0.17	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Barium, Total	120		mg/kg	0.87	0.26	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Beryllium, Total	0.29	J	mg/kg	0.43	0.09	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Cadmium, Total	0.16	J	mg/kg	0.87	0.06	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Calcium, Total	7100		mg/kg	8.7	2.6	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Chromium, Total	14		mg/kg	0.87	0.17	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Cobalt, Total	4.7		mg/kg	1.7	0.43	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Copper, Total	75		mg/kg	0.87	0.17	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Iron, Total	13000		mg/kg	4.3	1.7	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Lead, Total	450		mg/kg	4.3	0.17	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Magnesium, Total	2300		mg/kg	8.7	0.87	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Manganese, Total	190		mg/kg	0.87	0.17	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Mercury, Total	3.0		mg/kg	0.08	0.02	1	02/12/14 11:43	02/12/14 13:54	EPA 7471B	1,7471B	AK
Nickel, Total	18		mg/kg	2.2	0.35	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Potassium, Total	720		mg/kg	220	35.	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Selenium, Total	0.36	J	mg/kg	1.7	0.26	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Silver, Total	0.19	J	mg/kg	0.87	0.17	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Sodium, Total	120	J	mg/kg	170	26.	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Thallium, Total	ND		mg/kg	1.7	0.35	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Vanadium, Total	20		mg/kg	0.87	0.09	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC
Zinc, Total	280		mg/kg	4.3	0.61	2	02/07/14 12:36	02/08/14 11:18	EPA 3050B	1,6010C	BC

Project Name: 275 4TH AVENUE
Lab Number: L1402992
Project Number: 5981-01-04-4001
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-10
Client ID: B-5 (12-14')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Percent Solids: 81%

Date Collected: 02/04/14 21:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6200		mg/kg	9.5	1.9	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Antimony, Total	ND		mg/kg	4.8	0.76	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Arsenic, Total	17		mg/kg	0.95	0.19	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Barium, Total	36		mg/kg	0.95	0.28	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Beryllium, Total	0.34	J	mg/kg	0.48	0.10	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Cadmium, Total	ND		mg/kg	0.95	0.07	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Calcium, Total	2300		mg/kg	9.5	2.8	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Chromium, Total	14		mg/kg	0.95	0.19	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Cobalt, Total	6.7		mg/kg	1.9	0.48	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Copper, Total	16		mg/kg	0.95	0.19	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Iron, Total	14000		mg/kg	4.8	1.9	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Lead, Total	18		mg/kg	4.8	0.19	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Magnesium, Total	3800		mg/kg	9.5	0.95	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Manganese, Total	170		mg/kg	0.95	0.19	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Mercury, Total	0.16		mg/kg	0.09	0.02	1	02/12/14 11:43	02/12/14 13:56	EPA 7471B	1,7471B	AK
Nickel, Total	26		mg/kg	2.4	0.38	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Potassium, Total	1000		mg/kg	240	38.	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Selenium, Total	1.8	J	mg/kg	1.9	0.28	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Silver, Total	ND		mg/kg	0.95	0.19	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Sodium, Total	130	J	mg/kg	190	28.	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Thallium, Total	ND		mg/kg	1.9	0.38	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Vanadium, Total	19		mg/kg	0.95	0.10	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC
Zinc, Total	43		mg/kg	4.8	0.67	2	02/07/14 12:36	02/08/14 11:21	EPA 3050B	1,6010C	BC

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

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): 01-10 Batch: WG669262-1										
Aluminum, Total	0.93	J	mg/kg	4.0	0.80	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Antimony, Total	ND		mg/kg	2.0	0.32	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Arsenic, Total	ND		mg/kg	0.40	0.08	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Barium, Total	ND		mg/kg	0.40	0.12	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Beryllium, Total	ND		mg/kg	0.20	0.04	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Cadmium, Total	ND		mg/kg	0.40	0.03	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Calcium, Total	ND		mg/kg	4.0	1.2	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Chromium, Total	ND		mg/kg	0.40	0.08	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Cobalt, Total	ND		mg/kg	0.80	0.20	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Copper, Total	ND		mg/kg	0.40	0.08	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Iron, Total	ND		mg/kg	2.0	0.80	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Lead, Total	ND		mg/kg	2.0	0.08	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Magnesium, Total	ND		mg/kg	4.0	0.40	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Manganese, Total	0.38	J	mg/kg	0.40	0.08	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Nickel, Total	ND		mg/kg	1.0	0.16	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Potassium, Total	ND		mg/kg	100	16.	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Selenium, Total	ND		mg/kg	0.80	0.12	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Silver, Total	ND		mg/kg	0.40	0.08	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Sodium, Total	ND		mg/kg	80	12.	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Thallium, Total	ND		mg/kg	0.80	0.16	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Vanadium, Total	ND		mg/kg	0.40	0.04	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC
Zinc, Total	ND		mg/kg	2.0	0.28	1	02/07/14 12:36	02/08/14 09:44	1,6010C	BC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-10 Batch: WG669976-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	02/12/14 11:43	02/12/14 13:01	1,7471B	AK

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402992

Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10 Batch: WG669262-2 SRM Lot Number: 0518-10-02								
Aluminum, Total	85		-		29-171	-		
Antimony, Total	112		-		4-196	-		
Arsenic, Total	100		-		81-119	-		
Barium, Total	92		-		83-118	-		
Beryllium, Total	98		-		83-117	-		
Cadmium, Total	94		-		82-117	-		
Calcium, Total	90		-		83-117	-		
Chromium, Total	92		-		80-119	-		
Cobalt, Total	96		-		83-117	-		
Copper, Total	92		-		83-117	-		
Iron, Total	94		-		51-150	-		
Lead, Total	91		-		80-120	-		
Magnesium, Total	92		-		74-126	-		
Manganese, Total	90		-		83-117	-		
Nickel, Total	94		-		82-117	-		
Potassium, Total	99		-		74-126	-		
Selenium, Total	95		-		80-120	-		
Silver, Total	96		-		66-134	-		
Sodium, Total	98		-		74-127	-		
Thallium, Total	101		-		79-120	-		
Vanadium, Total	89		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402992

Report Date: 02/13/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10 Batch: WG669262-2 SRM Lot Number: 0518-10-02					
Zinc, Total	94	-	82-119	-	
Total Metals - Westborough Lab Associated sample(s): 01-10 Batch: WG669976-2 SRM Lot Number: 0518-10-02					
Mercury, Total	130	-	67-133	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG669262-4 QC Sample: L1402991-01 Client ID: MS Sample												
Aluminum, Total	4500	174	4400	**0**	Q	-	-		75-125	-		35
Antimony, Total	0.74J	43.4	39	90		-	-		75-125	-		35
Arsenic, Total	9.7	10.4	15	**51**	Q	-	-		75-125	-		35
Barium, Total	90.	174	240	86		-	-		75-125	-		35
Beryllium, Total	0.28J	4.34	4.3	99		-	-		75-125	-		35
Cadmium, Total	0.07J	4.43	3.9	88		-	-		75-125	-		35
Calcium, Total	3800	868	5800	**230**	Q	-	-		75-125	-		35
Chromium, Total	14.	17.4	28	81		-	-		75-125	-		35
Cobalt, Total	4.6	43.4	43	88		-	-		75-125	-		35
Copper, Total	70.	21.7	82	**55**	Q	-	-		75-125	-		35
Iron, Total	14000	86.8	10000	**0**	Q	-	-		75-125	-		35
Lead, Total	300	44.3	260	**0**	Q	-	-		75-125	-		35
Magnesium, Total	1800	868	3200	**161**	Q	-	-		75-125	-		35
Manganese, Total	180	43.4	200	**46**	Q	-	-		75-125	-		35
Nickel, Total	16.	43.4	52	83		-	-		75-125	-		35
Potassium, Total	760	868	1500	85		-	-		75-125	-		35
Selenium, Total	0.52J	10.4	10	96		-	-		75-125	-		35
Silver, Total	ND	26	25	96		-	-		75-125	-		35
Sodium, Total	180	868	1000	94		-	-		75-125	-		35
Thallium, Total	ND	10.4	8.5	82		-	-		75-125	-		35
Vanadium, Total	19.	43.4	56	85		-	-		75-125	-		35

Matrix Spike Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

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): 01-10 QC Batch ID: WG669262-4 QC Sample: L1402991-01 Client ID: MS Sample										
Zinc, Total	280	43.4	250	**0**	Q	-	-	75-125	-	35
Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG669976-4 QC Sample: L1402991-01 Client ID: MS Sample										
Mercury, Total	1.6	0.152	2.2	**394**	Q	-	-	80-120	-	35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG669262-3 QC Sample: L1402991-01 Client ID: DUP Sample						
Aluminum, Total	4500	4200	mg/kg	7		35
Antimony, Total	0.74J	1.4J	mg/kg	NC		35
Arsenic, Total	9.7	6.2	mg/kg	**44**	Q	35
Barium, Total	90.	150	mg/kg	**50**	Q	35
Beryllium, Total	0.28J	0.23J	mg/kg	NC		35
Cadmium, Total	0.07J	ND	mg/kg	NC		35
Chromium, Total	14.	12	mg/kg	15		35
Cobalt, Total	4.6	4.0	mg/kg	14		35
Copper, Total	70.	81	mg/kg	15		35
Iron, Total	14000	11000	mg/kg	24		35
Lead, Total	300	310	mg/kg	3		35
Manganese, Total	180	140	mg/kg	25		35
Nickel, Total	16.	14	mg/kg	13		35
Selenium, Total	0.52J	0.65J	mg/kg	NC		35
Silver, Total	ND	0.23J	mg/kg	NC		35
Thallium, Total	ND	ND	mg/kg	NC		35
Vanadium, Total	19.	14	mg/kg	30		35
Zinc, Total	280	300	mg/kg	7		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG669976-3 QC Sample: L1402991-01 Client ID: DUP Sample					
Mercury, Total	1.6	1.7	mg/kg	6	35

INORGANICS
&
MISCELLANEOUS

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-01
Client ID: B-1 (0-2')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	19		mg/kg	0.92	0.92	1	-	02/12/14 14:27	107,-	JO
Solids, Total	86.7		%	0.100	NA	1	-	02/07/14 21:04	30,2540G	RT
Cyanide, Total	0.45	J	mg/kg	1.1	0.26	1	02/10/14 13:30	02/11/14 15:02	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.92	0.18	1	02/10/14 12:00	02/10/14 20:17	1,7196A	JT

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-02
Client ID: B-1 (12-14')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	15		mg/kg	1.0	1.0	1	-	02/12/14 14:27	107,-	JO
Solids, Total	80.2		%	0.100	NA	1	-	02/07/14 21:04	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.2	0.28	1	02/10/14 13:30	02/11/14 15:05	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.0	0.20	1	02/10/14 12:00	02/10/14 20:18	1,7196A	JT

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-03
Client ID: B-2 (0-2')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Date Collected: 02/04/14 22:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	15		mg/kg	0.92	0.92	1	-	02/12/14 14:27	107,-	JO
Solids, Total	87.2		%	0.100	NA	1	-	02/07/14 21:04	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.1	0.26	1	02/10/14 13:30	02/11/14 15:05	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.92	0.18	1	02/10/14 12:00	02/10/14 20:18	1,7196A	JT

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-04
Client ID: B-2 (12-14')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil

Date Collected: 02/04/14 22:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	10		mg/kg	0.99	0.99	1	-	02/12/14 14:27	107,-	JO
Solids, Total	80.9		%	0.100	NA	1	-	02/07/14 21:04	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.2	0.28	1	02/10/14 13:30	02/11/14 15:06	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.99	0.20	1	02/10/14 12:00	02/10/14 20:19	1,7196A	JT

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-05
Client ID: B-3 (0-2')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	17		mg/kg	0.90	0.90	1	-	02/12/14 14:27	107,-	JO
Solids, Total	88.4		%	0.100	NA	1	-	02/07/14 21:04	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.1	0.26	1	02/10/14 13:30	02/11/14 15:07	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.90	0.18	1	02/10/14 12:00	02/10/14 20:20	1,7196A	JT

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-06
Client ID: B-3 (12-14')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	43		mg/kg	1.0	1.0	1	-	02/12/14 14:27	107,-	JO
Solids, Total	75.9		%	0.100	NA	1	-	02/07/14 21:04	30,2540G	RT
Cyanide, Total	0.79	J	mg/kg	1.3	0.30	1	02/10/14 16:30	02/11/14 13:55	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.0	0.21	1	02/10/14 12:00	02/10/14 20:20	1,7196A	JT

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-07
Client ID: B-4 (0-2')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Date Collected: 02/04/14 20:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	16		mg/kg	0.88	0.88	1	-	02/12/14 14:27	107,-	JO
Solids, Total	90.6		%	0.100	NA	1	-	02/07/14 21:04	30,2540G	RT
Cyanide, Total	0.55	J	mg/kg	1.1	0.26	1	02/10/14 16:30	02/11/14 13:56	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.88	0.18	1	02/10/14 12:00	02/10/14 20:21	1,7196A	JT

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-08
Client ID: B-4 (12-14')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Date Collected: 02/04/14 20:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	15		mg/kg	1.1	1.1	1	-	02/12/14 14:27	107,-	JO
Solids, Total	72.1		%	0.100	NA	1	-	02/07/14 21:04	30,2540G	RT
Cyanide, Total	4.5		mg/kg	1.3	0.31	1	02/10/14 16:30	02/11/14 13:57	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	1.1	0.22	1	02/10/14 12:00	02/10/14 20:21	1,7196A	JT

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-09
Client ID: B-5 (0-2')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Date Collected: 02/04/14 21:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	14		mg/kg	0.91	0.91	1	-	02/12/14 14:27	107,-	JO
Solids, Total	88.3		%	0.100	NA	1	-	02/07/14 21:04	30,2540G	RT
Cyanide, Total	2.2		mg/kg	1.1	0.26	1	02/10/14 16:30	02/11/14 13:57	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.91	0.18	1	02/10/14 12:00	02/10/14 20:22	1,7196A	JT

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402992-10
Client ID: B-5 (12-14')
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Soil
Date Collected: 02/04/14 21:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	14		mg/kg	0.98	0.98	1	-	02/12/14 14:27	107,-	JO
Solids, Total	81.3		%	0.100	NA	1	-	02/07/14 21:04	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.2	0.27	1	02/10/14 16:30	02/11/14 13:58	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.98	0.20	1	02/10/14 12:00	02/10/14 20:22	1,7196A	JT

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402992
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG669540-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	02/10/14 12:00	02/10/14 20:13	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG669564-1										
Cyanide, Total	ND		mg/kg	0.92	0.22	1	02/10/14 13:30	02/11/14 14:55	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 06-10 Batch: WG669636-1										
Cyanide, Total	ND		mg/kg	0.89	0.21	1	02/10/14 16:30	02/11/14 13:52	1,9010C/9012B	JO

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402992

Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG669540-2								
Chromium, Hexavalent	88		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG669564-2 WG669564-3								
Cyanide, Total	102		99		80-120	3		35
General Chemistry - Westborough Lab Associated sample(s): 06-10 Batch: WG669636-2 WG669636-3								
Cyanide, Total	102		100		80-120	2		35

Matrix Spike Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG669540-5 QC Sample: L1402992-05 Client ID: B-3 (0-2')												
Chromium, Hexavalent	ND	1340	1300	97		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG669564-4 WG669564-5 QC Sample: L1402992-05 Client ID: B-3 (0-2')												
Cyanide, Total	ND	11	11	99		11	100		65-135	0		35
General Chemistry - Westborough Lab Associated sample(s): 06-10 QC Batch ID: WG669636-4 WG669636-5 QC Sample: L1403000-02 Client ID: MS Sample												
Cyanide, Total	ND	13	12	90		13	100		65-135	8		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG669329-1 QC Sample: L1402992-01 Client ID: B-1 (0-2')						
Solids, Total	86.7	85.6	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG669540-4 QC Sample: L1402992-05 Client ID: B-3 (0-2')						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

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
C	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1402992-01A	Vial Large Septa unpreserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1402992-01B	Amber 250ml unpreserved	C	N/A	2.4	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),ENCORE(),AG-TI(180),HERB-APA(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1402992-02A	Vial Large Septa unpreserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1402992-02B	Amber 250ml unpreserved	C	N/A	2.4	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),ENCORE(),AG-TI(180),HERB-APA(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1402992-03A	Vial Large Septa unpreserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1402992-03B	Amber 250ml unpreserved	C	N/A	2.4	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),ENCORE(),AG-TI(180),HERB-APA(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1402992-04A	Vial Large Septa unpreserved	C	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1402992-04B	Amber 250ml unpreserved	C	N/A	2.4	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),ENCORE(),AG-TI(180),HERB-APA(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1402992-05A	Vial Large Septa unpreserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1402992-05B	Amber 250ml unpreserved	C	N/A	2.4	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),ENCORE(),AG-TI(180),HERB-APA(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1402992-06A	Vial Large Septa unpreserved	C	N/A	2.4	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1402992-06B	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),ENCORE(),AG-TI(180),HERB-APA(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1402992-07A	Vial Large Septa unpreserved	C	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1402992-07B	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),ENCORE(),AG-TI(180),HERB-APA(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1402992-08A	Vial Large Septa unpreserved	C	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1402992-08B	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),ENCORE(),AG-TI(180),HERB-APA(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1402992-09A	Vial Large Septa unpreserved	C	N/A	2.4	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402992
Report Date: 02/13/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1402992-09B	Amber 250ml unpreserved	A	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),ENCORE(),AG-TI(180),HERB-APA(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1402992-10A	Vial Large Septa unpreserved	C	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1402992-10B	Amber 250ml unpreserved	C	N/A	2.4	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),ENCORE(),AG-TI(180),HERB-APA(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)

Container Comments

L1402992-04A

*Values in parentheses indicate holding time in days

Project Name:	275 4TH AVENUE	**Lab Number:**	L1402992
Project Number:	5981-01-04-4001	**Report Date:**	02/13/14

GLOSSARY

Acronyms

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

Footnotes

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

Terms

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	275 4TH AVENUE	**Lab Number:**	L1402992
Project Number:	5981-01-04-4001	**Report Date:**	02/13/14

Data Qualifiers

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	275 4TH AVENUE	**Lab Number:**	L1402992
Project Number:	5981-01-04-4001	**Report Date:**	02/13/14

REFERENCES

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

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

107 Alpha Analytical - In-house calculation method.

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 December 11, 2013

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 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, SM4500Cl-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.

L1402992

CHAIN OF CUSTODY

IMPACT ENVIRONMENTAL
170 Keyland Court, Bohemia, New York 11716
(Tel.) 631-269-8800 (Fax) 631-269-1599

Page 1 of 1

LAB NAME: ALPHA

RECEIVED DATE: 2/6/14

Serial No:02131416:22

Client Information

Company Name: Impact Environmental
Address: 170 Keyland Court
City: Bohemia
Project Contact: B. HERNANDEZ
Phone #: 631-269-8800 **Fax #:** 631-269-1599
E-mail: BHERNANDEZ@IMPACTENVIRONMENTAL.COM

Project Information

Project Name: 275 4TH AVENUE
Street: 275 4TH Ave
City: BROOKLYN **State:** NY **Zip:**
Project #: 5981-01-04-4001
Sampler's Name: B. HERNANDEZ
Sampler's Signature:

LAB SAMPLE # (LAB USE ONLY)	Sample ID	IEC Project Code	Matrix Code	Sample Type	Sample Date	Time	Total # of bottles	NONE or OTHER*	ICE	HCL	Methanol (USEPA 5035)	Sodium Bisulfate (EPA 5035
02992-01	1 B-1 (0-2')	5981	S	G	2/4/14	12PM	2		X			
02	2 B-1 (12-14')					10PM						
03	3 B-2 (0-2')					11PM						
04	4 B-2 (12-14')					8PM						
05	5 B-3 (0-2')					9PM						
06	6 B-3 (12-14')											
07	7 B-4 (0-2')											
08	8 B-4 (12-14')											
09	9 B-5 (0-2')											
10	10 B-5 (12-14')											

Analytical Information

Impact Analytical Package A*	Impact Analytical Package B**	Impact Analytical Package C***	VOC 8260 (Analyte List for NY Part 375 and NJ NRDCC)	GP82 Analysis	VOCs 8260 (CP51 Analite List)	VOCs 8260/SVOCs 8270	METALS 6010	PCBS/PEST/HERB 8081/8082
						X	X	X

Matrix Codes

L - Liquid
S - Soil
A - Air
OL - Oil
W - Wipe
PC - Paint Chips
SL - Sludge
SD - Solid
DW- Drinking Water
DISS - Dissolved

Sample Type
G=Grab
C=Composite
B=Blank

(LAB USE ONLY)

Turnaround Time (Business Days)

Standard Service
- [X] Standard - 5 day
- [ ] Standard - 4 day
- [ ] Standard - 3 day

Rush Service
- [ ] 48 Hour *RUSH*
- [ ] 24 Hour *RUSH*

(LAB USE ONLY)
TAT Approved By / Date:

Data Deliverable Information

- [ ] Results Only (Level-1)
- [ ] Results plus Misc. QC (Level-2)
- [ ] Results plus ALL QC (Level-3)
- [ ] PA QC Package
- [ ] NJ QC Package (Level3NJ)
- [ ] CLP Category A (Level-2)
- [ ] CLP Category B (Level-4)
- [ ] ASP QC Package (Level-4)
- [ ] Other
- [ ] EDD Format

(EDD Formats: Excel, pdf, EQUIS, GIS, GISKey, SPDES, Ascii, TAGM, DENJ)

REFERENCES

*Package A (proprietary) - Priority Pollutants Metals, SVOCs, PCB/Pest and Herbicides - to match all NJ DCSRS & NY Part 375 parameters and dectection limits. **Package B (proprietary)-Same as Package A, plus TCLP Metals & TPH. ***Package C (proprietary)-Same as Package B plus RCRA characteristics and Full TCLP

NOTES/COMMENTS:

* ALL FOR NYS PART 375 LIST *

Sample custody must be documented below each time samples change possession, with a signature, date, and time.

	Relinquished by Sampler:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1		2/6/14 1200	1	2	2-6-14 1855	2 2-6-14 1855
3		2/7/14 0035	3	4	4	4
5		5	5			

COOLER INFORMATION
Cooler Temp: pH: [ ] On Ice [ ] Sample Receipt Discrepancy(attach information)

Form SS-2/Nov. 2013

ANALYTICAL REPORT

Lab Number:	L1402995
Client:	Impact Environmental 170 Keyland Ct Bohemia, NY 11716
ATTN:	Ben Hernandez-Salazar
Phone:	(631) 269-8800
Project Name:	275 4TH AVENUE
Project Number:	5981-01-04-4001
Report Date:	02/14/14

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: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1402995-01	MW-2	275 4TH AVE. BROOKLYN, NY	02/04/14 23:00
L1402995-02	MW-2D	275 4TH AVE. BROOKLYN, NY	02/04/14 23:00
L1402995-03	MW-4	275 4TH AVE. BROOKLYN, NY	02/04/14 23:00
L1402995-04	MW-5	275 4TH AVE. BROOKLYN, NY	02/04/14 23:00

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

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: 275 4TH AVENUE **Lab Number:** L1402995
Project Number: 5981-01-04-4001 **Report Date:** 02/14/14

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

L1402995-01, -03 and -04 were field filtered for Dissolved Metals.

A Trip Blank was noted on the Chain of Custody, but not received in the laboratory.

Semivolatile Organics - SIM

L1402995-03 has elevated detection limits due to the dilution required by the sample matrix.

Total Metals

L1402995-01 and -03 have elevated detection limits for all elements, with the exception of mercury, due to the dilutions required by matrix interferences encountered during analysis.

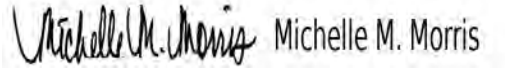
L1402995-01: The dissolved result is greater than the total result for sodium. The sample containers were verified as being labeled correctly by the laboratory, and aliquots were analyzed from each bottle, confirming the original results.

The WG669131-3 Laboratory Duplicate RPD, performed on L1402995-01, is outside the acceptance criteria for mercury (59%). The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

Dissolved Metals

The WG669741-4 MS recovery for calcium (127%), performed on L1402995-01, does not apply because the sample concentration is greater than four times the spike amount added.

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:  Michelle M. Morris

Title: Technical Director/Representative Date: 02/14/14

ORGANICS

VOLATILES

Project Name: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-01 D
Client ID: MW-2
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/10/14 11:43
Analyst: PD

Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	ND		ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.26	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	ND		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	ND		ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
1,1-Dichloropropene	ND		ug/l	5.0	1.4	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.29	2
Benzene	ND		ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	2.6	J	ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	ND		ug/l	2.0	0.66	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	ND		ug/l	1.0	0.28	2
trans-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
Trichloroethene	ND		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,3-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2

Project Name: 275 4TH AVENUE **Lab Number:** L1402995

Project Number: 5981-01-04-4001 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-01 D Date Collected: 02/04/14 23:00

Client ID: MW-2 Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY 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	5.0	1.4	2
p/m-Xylene	ND		ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
Dibromomethane	ND		ug/l	10	2.0	2
1,2,3-Trichloropropane	ND		ug/l	5.0	1.4	2
Acrylonitrile	ND		ug/l	10	3.0	2
Styrene	ND		ug/l	5.0	1.4	2
Dichlorodifluoromethane	ND		ug/l	10	2.0	2
Acetone	13		ug/l	10	2.0	2
Carbon disulfide	ND		ug/l	10	2.0	2
2-Butanone	ND		ug/l	10	2.0	2
Vinyl acetate	ND		ug/l	10	2.0	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
2-Hexanone	ND		ug/l	10	2.0	2
Bromochloromethane	ND		ug/l	5.0	1.4	2
2,2-Dichloropropane	ND		ug/l	5.0	1.4	2
1,2-Dibromoethane	ND		ug/l	4.0	1.3	2
1,3-Dichloropropane	ND		ug/l	5.0	1.4	2
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	1.4	2
Bromobenzene	ND		ug/l	5.0	1.4	2
n-Butylbenzene	16		ug/l	5.0	1.4	2
sec-Butylbenzene	10		ug/l	5.0	1.4	2
tert-Butylbenzene	ND		ug/l	5.0	1.4	2
o-Chlorotoluene	ND		ug/l	5.0	1.4	2
p-Chlorotoluene	ND		ug/l	5.0	1.4	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Hexachlorobutadiene	ND		ug/l	5.0	1.4	2
Isopropylbenzene	23		ug/l	5.0	1.4	2
p-Isopropyltoluene	ND		ug/l	5.0	1.4	2
Naphthalene	3.4	J	ug/l	5.0	1.4	2
n-Propylbenzene	96		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,3,5-Trimethylbenzene	1.4	J	ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	16		ug/l	5.0	1.4	2
1,4-Dioxane	ND		ug/l	500	82.	2
1,4-Diethylbenzene	20		ug/l	4.0	1.4	2
4-Ethyltoluene	6.7		ug/l	4.0	1.4	2

Project Name: 275 4TH AVENUE **Lab Number:** L1402995

Project Number: 5981-01-04-4001 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-01 D Date Collected: 02/04/14 23:00

Client ID: MW-2 Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	65		ug/l	4.0	1.3	2
Ethyl ether	ND		ug/l	5.0	1.4	2
trans-1,4-Dichloro-2-butene	ND		ug/l	5.0	1.4	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	103		70-130

Project Name: 275 4TH AVENUE **Lab Number:** L1402995

Project Number: 5981-01-04-4001 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-02 D
Client ID: MW-2D
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/10/14 12:11
Analyst: PD

Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	ND		ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.26	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	ND		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	ND		ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
1,1-Dichloropropene	ND		ug/l	5.0	1.4	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.29	2
Benzene	0.63	J	ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	2.6	J	ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	ND		ug/l	2.0	0.66	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	ND		ug/l	1.0	0.28	2
trans-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
Trichloroethene	ND		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,3-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2

Project Name: 275 4TH AVENUE **Lab Number:** L1402995

Project Number: 5981-01-04-4001 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-02 D Date Collected: 02/04/14 23:00

Client ID: MW-2D Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	5.0	1.4	2
p/m-Xylene	ND		ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
Dibromomethane	ND		ug/l	10	2.0	2
1,2,3-Trichloropropane	ND		ug/l	5.0	1.4	2
Acrylonitrile	ND		ug/l	10	3.0	2
Styrene	ND		ug/l	5.0	1.4	2
Dichlorodifluoromethane	ND		ug/l	10	2.0	2
Acetone	11		ug/l	10	2.0	2
Carbon disulfide	ND		ug/l	10	2.0	2
2-Butanone	ND		ug/l	10	2.0	2
Vinyl acetate	ND		ug/l	10	2.0	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
2-Hexanone	ND		ug/l	10	2.0	2
Bromochloromethane	ND		ug/l	5.0	1.4	2
2,2-Dichloropropane	ND		ug/l	5.0	1.4	2
1,2-Dibromoethane	ND		ug/l	4.0	1.3	2
1,3-Dichloropropane	ND		ug/l	5.0	1.4	2
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	1.4	2
Bromobenzene	ND		ug/l	5.0	1.4	2
n-Butylbenzene	15		ug/l	5.0	1.4	2
sec-Butylbenzene	10		ug/l	5.0	1.4	2
tert-Butylbenzene	ND		ug/l	5.0	1.4	2
o-Chlorotoluene	ND		ug/l	5.0	1.4	2
p-Chlorotoluene	ND		ug/l	5.0	1.4	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Hexachlorobutadiene	ND		ug/l	5.0	1.4	2
Isopropylbenzene	24		ug/l	5.0	1.4	2
p-Isopropyltoluene	ND		ug/l	5.0	1.4	2
Naphthalene	3.2	J	ug/l	5.0	1.4	2
n-Propylbenzene	97		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,3,5-Trimethylbenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	14		ug/l	5.0	1.4	2
1,4-Dioxane	ND		ug/l	500	82.	2
1,4-Diethylbenzene	18		ug/l	4.0	1.4	2
4-Ethyltoluene	6.5		ug/l	4.0	1.4	2

Project Name: 275 4TH AVENUE **Lab Number:** L1402995

Project Number: 5981-01-04-4001 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-02 D Date Collected: 02/04/14 23:00

Client ID: MW-2D Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	59		ug/l	4.0	1.3	2
Ethyl ether	ND		ug/l	5.0	1.4	2
trans-1,4-Dichloro-2-butene	ND		ug/l	5.0	1.4	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	101		70-130

Project Name: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-03
Client ID: MW-4
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/10/14 12:38
Analyst: PD

Date Collected: 02/04/14 23:00
Date Received: 02/06/14
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	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402995

Project Number: 5981-01-04-4001 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-03 Date Collected: 02/04/14 23:00

Client ID: MW-4 Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY 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	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.0	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402995

Project Number: 5981-01-04-4001 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-03 Date Collected: 02/04/14 23:00

Client ID: MW-4 Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: See Narrative

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	104		70-130

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402995
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-04
Client ID: MW-5
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/10/14 13:06
Analyst: PD

Date Collected: 02/04/14 23:00
Date Received: 02/06/14
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	27		ug/l	0.50	0.16	1
Toluene	3.4		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402995

Project Number: 5981-01-04-4001 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-04 Date Collected: 02/04/14 23:00

Client ID: MW-5 Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	20		ug/l	2.5	0.70	1
p/m-Xylene	7.6		ug/l	2.5	0.70	1
o-Xylene	3.0		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	18		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	1.5	J	ug/l	2.5	0.70	1
sec-Butylbenzene	8.1		ug/l	2.5	0.70	1
tert-Butylbenzene	0.97	J	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	33		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	25		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	1.9	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	1.8	J	ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	5.3		ug/l	2.0	0.70	1
4-Ethyltoluene	1.6	J	ug/l	2.0	0.70	1

Project Name: 275 4TH AVENUE **Lab Number:** L1402995

Project Number: 5981-01-04-4001 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-04 Date Collected: 02/04/14 23:00

Client ID: MW-5 Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	17		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	101		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	86		70-130

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/10/14 10:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG669592-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/10/14 10:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG669592-3					
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
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
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/10/14 10:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG669592-3					
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
1,4-Dioxane	ND		ug/l	250	41.
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG669592-1 WG669592-2								
Methylene chloride	105		103		70-130	2		20
1,1-Dichloroethane	108		105		70-130	3		20
Chloroform	110		108		70-130	2		20
Carbon tetrachloride	108		104		63-132	4		20
1,2-Dichloropropane	106		103		70-130	3		20
Dibromochloromethane	100		101		63-130	1		20
1,1,2-Trichloroethane	105		108		70-130	3		20
Tetrachloroethene	103		99		70-130	4		20
Chlorobenzene	101		100		75-130	1		20
Trichlorofluoromethane	115		110		62-150	4		20
1,2-Dichloroethane	106		106		70-130	0		20
1,1,1-Trichloroethane	108		104		67-130	4		20
Bromodichloromethane	108		106		67-130	2		20
trans-1,3-Dichloropropene	107		110		70-130	3		20
cis-1,3-Dichloropropene	104		105		70-130	1		20
1,1-Dichloropropene	114		109		70-130	4		20
Bromoform	99		100		54-136	1		20
1,1,2,2-Tetrachloroethane	99		102		67-130	3		20
Benzene	108		105		70-130	3		20
Toluene	105		103		70-130	2		20
Ethylbenzene	106		104		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG669592-1 WG669592-2								
Chloromethane	103		102		64-130	1		20
Bromomethane	107		100		39-139	7		20
Vinyl chloride	101		96		55-140	5		20
Chloroethane	111		104		55-138	7		20
1,1-Dichloroethene	107		101		61-145	6		20
trans-1,2-Dichloroethene	108		106		70-130	2		20
Trichloroethene	113		109		70-130	4		20
1,2-Dichlorobenzene	101		100		70-130	1		20
1,3-Dichlorobenzene	102		99		70-130	3		20
1,4-Dichlorobenzene	101		100		70-130	1		20
Methyl tert butyl ether	104		106		63-130	2		20
p/m-Xylene	110		106		70-130	4		20
o-Xylene	109		106		70-130	3		20
cis-1,2-Dichloroethene	113		108		70-130	5		20
Dibromomethane	102		106		70-130	4		20
1,2,3-Trichloropropane	99		101		64-130	2		20
Acrylonitrile	105		113		70-130	7		20
tert-Butyl Alcohol	117		119		70-130	2		20
Styrene	114		112		70-130	2		20
Dichlorodifluoromethane	98		93		36-147	5		20
Acetone	72		72		58-148	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG669592-1 WG669592-2								
Carbon disulfide	99		94		51-130	5		20
2-Butanone	92		96		63-138	4		20
Vinyl acetate	106		109		70-130	3		20
4-Methyl-2-pentanone	80		80		59-130	0		20
2-Hexanone	87		91		57-130	4		20
Bromochloromethane	106		105		70-130	1		20
2,2-Dichloropropane	110		105		63-133	5		20
1,2-Dibromoethane	100		102		70-130	2		20
1,3-Dichloropropane	104		104		70-130	0		20
1,1,1,2-Tetrachloroethane	106		105		64-130	1		20
Bromobenzene	96		93		70-130	3		20
n-Butylbenzene	111		107		53-136	4		20
sec-Butylbenzene	107		102		70-130	5		20
tert-Butylbenzene	103		99		70-130	4		20
o-Chlorotoluene	106		102		70-130	4		20
p-Chlorotoluene	103		99		70-130	4		20
1,2-Dibromo-3-chloropropane	106		107		41-144	1		20
Hexachlorobutadiene	103		99		63-130	4		20
Isopropylbenzene	99		95		70-130	4		20
p-Isopropyltoluene	108		103		70-130	5		20
Naphthalene	103		109		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402995

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG669592-1 WG669592-2								
n-Propylbenzene	107		102		69-130	5		20
1,2,3-Trichlorobenzene	103		105		70-130	2		20
1,2,4-Trichlorobenzene	104		105		70-130	1		20
1,3,5-Trimethylbenzene	108		104		64-130	4		20
1,2,4-Trimethylbenzene	110		108		70-130	2		20
1,4-Dioxane	140		139		56-162	1		20
1,4-Diethylbenzene	113		109		70-130	4		20
4-Ethyltoluene	101		96		70-130	5		20
1,2,4,5-Tetramethylbenzene	101		99		70-130	2		20
Ethyl ether	103		103		59-134	0		20
trans-1,4-Dichloro-2-butene	96		100		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	93		93		70-130
Dibromofluoromethane	105		104		70-130

SEMIVOLATILES

Project Name: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402995-01	Date Collected:	02/04/14 23:00
Client ID:	MW-2	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	02/07/14 17:01
Analytical Date:	02/10/14 15:22		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	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	ND		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	0.51	J	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	1.4	J	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: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-01
Client ID: MW-2
Sample Location: 275 4TH AVE. BROOKLYN, NY
Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	0.42	J	ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	87		15-120
4-Terphenyl-d14	109		41-149

Project Name: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402995-01	Date Collected:	02/04/14 23:00
Client ID:	MW-2	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	02/07/14 17:18
Analytical Date:	02/11/14 11:38		
Analyst:	MW		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	2.7		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	0.85		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	7.4		ug/l	0.20	0.06	1
Benzo(a)anthracene	0.06	J	ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	0.12	J	ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	0.14	J	ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	0.27		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	2.3		ug/l	0.20	0.06	1
Phenanthrene	3.2		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	0.48		ug/l	0.20	0.06	1
2-Methylnaphthalene	10		ug/l	0.20	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	94		15-120
4-Terphenyl-d14	127		41-149

Project Name: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402995-03	Date Collected:	02/04/14 23:00
Client ID:	MW-4	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	02/07/14 17:01
Analytical Date:	02/10/14 15:48		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	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	ND		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: 275 4TH AVENUE **Lab Number:** L1402995

Project Number: 5981-01-04-4001 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-03 Date Collected: 02/04/14 23:00

Client ID: MW-4 Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	93		15-120
4-Terphenyl-d14	104		41-149

Project Name: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402995-03 D	Date Collected:	02/04/14 23:00
Client ID:	MW-4	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	02/07/14 17:18
Analytical Date:	02/10/14 16:46		
Analyst:	MW		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.40	0.13	2
2-Chloronaphthalene	ND		ug/l	0.40	0.13	2
Fluoranthene	1.2		ug/l	0.40	0.09	2
Hexachlorobutadiene	ND		ug/l	1.0	0.14	2
Naphthalene	ND		ug/l	0.40	0.13	2
Benzo(a)anthracene	0.72		ug/l	0.40	0.11	2
Benzo(a)pyrene	0.87		ug/l	0.40	0.14	2
Benzo(b)fluoranthene	1.2		ug/l	0.40	0.14	2
Benzo(k)fluoranthene	0.65		ug/l	0.40	0.14	2
Chrysene	0.96		ug/l	0.40	0.10	2
Acenaphthylene	ND		ug/l	0.40	0.10	2
Anthracene	ND		ug/l	0.40	0.13	2
Benzo(ghi)perylene	0.83		ug/l	0.40	0.14	2
Fluorene	ND		ug/l	0.40	0.11	2
Phenanthrene	0.27	J	ug/l	0.40	0.13	2
Dibenzo(a,h)anthracene	0.34	J	ug/l	0.40	0.15	2
Indeno(1,2,3-cd)Pyrene	0.91		ug/l	0.40	0.16	2
Pyrene	0.95		ug/l	0.40	0.11	2
2-Methylnaphthalene	ND		ug/l	0.40	0.12	2
Hexachlorobenzene	ND		ug/l	1.6	0.03	2
Hexachloroethane	ND		ug/l	1.6	0.13	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	79		15-120
4-Terphenyl-d14	99		41-149

Project Name: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402995-04	Date Collected:	02/04/14 23:00
Client ID:	MW-5	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	02/07/14 17:01
Analytical Date:	02/10/14 16:13		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	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	1.8	J	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: 275 4TH AVENUE **Lab Number:** L1402995

Project Number: 5981-01-04-4001 **Report Date:** 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-04 Date Collected: 02/04/14 23:00

Client ID: MW-5 Date Received: 02/06/14

Sample Location: 275 4TH AVE. BROOKLYN, NY Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	87		15-120
4-Terphenyl-d14	99		41-149

Project Name: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402995-04	Date Collected:	02/04/14 23:00
Client ID:	MW-5	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	02/07/14 17:18
Analytical Date:	02/11/14 12:08		
Analyst:	MW		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.86		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	0.24		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	ND		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	0.06	J	ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	0.21		ug/l	0.20	0.06	1
Phenanthrene	0.28		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	0.19	J	ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	89		15-120
4-Terphenyl-d14	121		41-149

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/10/14 13:40
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 02/07/14 17:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04 Batch: WG669307-1					
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	ND		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: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/10/14 13:40
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 02/07/14 17:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04 Batch: WG669307-1					
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	69		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	87		15-120
2,4,6-Tribromophenol	111		10-120
4-Terphenyl-d14	104		41-149

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/10/14 11:14
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 02/07/14 17:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,03-04 Batch: WG669308-1					
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: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/10/14 11:14
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 02/07/14 17:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,03-04 Batch: WG669308-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	114		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	112		10-120
4-Terphenyl-d14	123		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04 Batch: WG669307-2 WG669307-3								
1,2,4-Trichlorobenzene	70		69		39-98	1		30
Bis(2-chloroethyl)ether	92		90		40-140	2		30
1,2-Dichlorobenzene	71		70		40-140	1		30
1,3-Dichlorobenzene	70		70		40-140	0		30
1,4-Dichlorobenzene	70		70		36-97	0		30
3,3'-Dichlorobenzidine	41		43		40-140	5		30
2,4-Dinitrotoluene	**106**	Q	**111**	Q	24-96	5		30
2,6-Dinitrotoluene	96		102		40-140	6		30
4-Chlorophenyl phenyl ether	90		90		40-140	0		30
4-Bromophenyl phenyl ether	97		102		40-140	5		30
Bis(2-chloroisopropyl)ether	81		80		40-140	1		30
Bis(2-chloroethoxy)methane	89		88		40-140	1		30
Hexachlorocyclopentadiene	**38**	Q	**36**	Q	40-140	5		30
Isophorone	91		90		40-140	1		30
Nitrobenzene	98		98		40-140	0		30
NitrosoDiPhenylAmine(NDPA)/DPA	100		103		40-140	3		30
n-Nitrosodi-n-propylamine	93		92		29-132	1		30
Bis(2-Ethylhexyl)phthalate	115		114		40-140	1		30
Butyl benzyl phthalate	118		122		40-140	3		30
Di-n-butylphthalate	113		112		40-140	1		30
Di-n-octylphthalate	120		119		40-140	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04 Batch: WG669307-2 WG669307-3								
Diethyl phthalate	102		106		40-140	4		30
Dimethyl phthalate	104		106		40-140	2		30
Biphenyl	82		83			1		30
4-Chloroaniline	51		49		40-140	4		30
2-Nitroaniline	97		103		52-143	6		30
3-Nitroaniline	44		44		25-145	0		30
4-Nitroaniline	93		100		51-143	7		30
Dibenzofuran	88		89		40-140	1		30
1,2,4,5-Tetrachlorobenzene	73		73		2-134	0		30
Acetophenone	100		99		39-129	1		30
2,4,6-Trichlorophenol	103		106		30-130	3		30
P-Chloro-M-Cresol	**99**	Q	**103**	Q	23-97	4		30
2-Chlorophenol	96		95		27-123	1		30
2,4-Dichlorophenol	106		107		30-130	1		30
2,4-Dimethylphenol	84		85		30-130	1		30
2-Nitrophenol	97		97		30-130	0		30
4-Nitrophenol	69		68		10-80	1		30
2,4-Dinitrophenol	88		100		20-130	13		30
4,6-Dinitro-o-cresol	105		114		20-164	8		30
Phenol	49		48		12-110	2		30
2-Methylphenol	87		86		30-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04 Batch: WG669307-2 WG669307-3								
3-Methylphenol/4-Methylphenol	81		82		30-130	1		30
2,4,5-Trichlorophenol	102		106		30-130	4		30
Benzoic Acid	41		42			2		30
Benzyl Alcohol	77		76			1		30
Carbazole	109		110		55-144	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		74		21-120
Phenol-d6	50		48		10-120
Nitrobenzene-d5	92		92		23-120
2-Fluorobiphenyl	89		86		15-120
2,4,6-Tribromophenol	**121**	Q	116		10-120
4-Terphenyl-d14	109		108		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,03-04 Batch: WG669308-2 WG669308-3								
Acenaphthene	100		100		37-111	0		40
2-Chloronaphthalene	103		104		40-140	1		40
Fluoranthene	124		122		40-140	2		40
Hexachlorobutadiene	104		105		40-140	1		40
Naphthalene	101		101		40-140	0		40
Benzo(a)anthracene	118		119		40-140	1		40
Benzo(a)pyrene	101		101		40-140	0		40
Benzo(b)fluoranthene	108		107		40-140	1		40
Benzo(k)fluoranthene	115		117		40-140	2		40
Chrysene	115		114		40-140	1		40
Acenaphthylene	114		111		40-140	3		40
Anthracene	110		108		40-140	2		40
Benzo(ghi)perylene	111		111		40-140	0		40
Fluorene	108		110		40-140	2		40
Phenanthrene	100		101		40-140	1		40
Dibenzo(a,h)anthracene	111		112		40-140	1		40
Indeno(1,2,3-cd)Pyrene	119		119		40-140	0		40
Pyrene	120		118		26-127	2		40
2-Methylnaphthalene	106		105		40-140	1		40
Pentachlorophenol	**131**	Q	**130**	Q	9-103	1		40
Hexachlorobenzene	111		109		40-140	2		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402995

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,03-04 Batch: WG669308-2 WG669308-3								
Hexachloroethane	104		106		40-140	2		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		66		21-120
Phenol-d6	50		48		10-120
Nitrobenzene-d5	110		108		23-120
2-Fluorobiphenyl	92		91		15-120
2,4,6-Tribromophenol	**123**	Q	120		10-120
4-Terphenyl-d14	119		116		41-149

PCBS

Project Name: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402995-01	Date Collected:	02/04/14 23:00
Client ID:	MW-2	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	02/07/14 10:13
Analytical Date:	02/08/14 19:24	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	02/07/14
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/07/14

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402995-03	Date Collected:	02/04/14 23:00
Client ID:	MW-4	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	02/07/14 10:13
Analytical Date:	02/08/14 19:36	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	02/07/14
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/07/14

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402995-04	Date Collected:	02/04/14 23:00
Client ID:	MW-5	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	02/07/14 10:13
Analytical Date:	02/08/14 19:48	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	02/07/14
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	02/07/14

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/08/14 18:35
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 02/07/14 10:13
Cleanup Method1: EPA 3665A
Cleanup Date1: 02/07/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 02/07/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,03-04 Batch: WG669199-1						
Aroclor 1016	ND		ug/l	0.083	0.055	A
Aroclor 1221	ND		ug/l	0.083	0.053	A
Aroclor 1232	ND		ug/l	0.083	0.031	A
Aroclor 1242	ND		ug/l	0.083	0.060	A
Aroclor 1248	ND		ug/l	0.083	0.051	A
Aroclor 1254	ND		ug/l	0.083	0.034	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.029	A
Aroclor 1268	ND		ug/l	0.083	0.038	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	87		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402995

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03-04 Batch: WG669199-2 WG669199-3									
Aroclor 1016	85		95		40-140	10		50	A
Aroclor 1260	79		90		40-140	13		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		77		30-150	A
Decachlorobiphenyl	80		89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		84		30-150	B
Decachlorobiphenyl	82		94		30-150	B

PESTICIDES

Project Name: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402995-01	Date Collected:	02/04/14 23:00
Client ID:	MW-2	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	02/07/14 12:46
Analytical Date:	02/09/14 00:12	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/07/14

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	87		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402995-03	Date Collected:	02/04/14 23:00
Client ID:	MW-4	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	02/07/14 12:46
Analytical Date:	02/09/14 00:24	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/07/14

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	65		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	45		30-150	B

Project Name: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID:	L1402995-04	Date Collected:	02/04/14 23:00
Client ID:	MW-5	Date Received:	02/06/14
Sample Location:	275 4TH AVE. BROOKLYN, NY	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	02/07/14 10:16
Analytical Date:	02/09/14 00:37	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	02/07/14

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	72		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/08/14 23:59
Analyst: SH

Extraction Method: EPA 3510C
Extraction Date: 02/07/14 10:16
Cleanup Method1: EPA 3620B
Cleanup Date1: 02/07/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,03-04 Batch: WG669204-1						
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	64		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	68		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03-04 Batch: WG669204-2 WG669204-3									
Delta-BHC	78		76		30-150	3		20	A
Lindane	80		78		30-150	3		20	A
Alpha-BHC	79		78		30-150	2		20	A
Beta-BHC	79		75		30-150	5		20	A
Heptachlor	74		75		30-150	1		20	A
Aldrin	79		78		30-150	2		20	A
Heptachlor epoxide	78		74		30-150	5		20	A
Endrin	82		79		30-150	4		20	A
Endrin ketone	78		73		30-150	8		20	A
Dieldrin	80		77		30-150	4		20	A
4,4'-DDE	77		74		30-150	3		20	A
4,4'-DDD	79		75		30-150	5		20	A
4,4'-DDT	84		80		30-150	5		20	A
Endosulfan I	78		75		30-150	3		20	A
Endosulfan II	79		75		30-150	5		20	A
Endosulfan sulfate	73		67		30-150	8		20	A
Methoxychlor	76		72		30-150	6		20	A
cis-Chlordane	76		75		30-150	1		20	A
trans-Chlordane	74		72		30-150	3		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402995

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03-04 Batch: WG669204-2 WG669204-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		65		30-150	A
Decachlorobiphenyl	73		67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		60		30-150	B
Decachlorobiphenyl	76		72		30-150	B

METALS

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402995
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-01
Client ID: MW-2
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Water
Date Collected: 02/04/14 23:00
Date Received: 02/06/14
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	7.72		mg/l	1.00	0.200	100	02/07/14 10:37	02/10/14 19:10	EPA 3005A	1,6020A	BM
Antimony, Total	0.00160	J	mg/l	0.01000	0.00100	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Arsenic, Total	0.02406		mg/l	0.00500	0.00200	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Barium, Total	0.3761		mg/l	0.00500	0.00100	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Beryllium, Total	0.00111	J	mg/l	0.00500	0.00100	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Cadmium, Total	0.00313		mg/l	0.00200	0.00050	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Calcium, Total	104.		mg/l	1.00	0.320	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Chromium, Total	0.02515		mg/l	0.01000	0.00200	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Cobalt, Total	0.01258		mg/l	0.00500	0.00100	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Copper, Total	0.2804		mg/l	0.01000	0.00100	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Iron, Total	55.5		mg/l	0.500	0.130	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Lead, Total	4.970		mg/l	0.1000	0.02000	100	02/07/14 10:37	02/10/14 19:10	EPA 3005A	1,6020A	BM
Magnesium, Total	28.8		mg/l	0.700	0.230	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Manganese, Total	1.396		mg/l	0.01000	0.00100	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Mercury, Total	0.00128		mg/l	0.00020	0.00006	1	02/07/14 07:53	02/07/14 12:21	EPA 7470A	1,7470A	AK
Nickel, Total	0.03409		mg/l	0.00500	0.00100	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Potassium, Total	4.95		mg/l	1.00	0.270	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.0500	0.00300	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00400	0.00100	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Sodium, Total	28.1		mg/l	1.00	0.150	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00500	0.00030	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Vanadium, Total	0.05468		mg/l	0.05000	0.00100	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Zinc, Total	2.776		mg/l	0.1000	0.01200	10	02/07/14 10:37	02/10/14 19:03	EPA 3005A	1,6020A	BM
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00200	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM
Antimony, Dissolved	0.00072	J	mg/l	0.00100	0.00010	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM
Arsenic, Dissolved	0.00330		mg/l	0.00050	0.00020	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM
Barium, Dissolved	0.1022		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM

Project Name: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-01
Client ID: MW-2
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Water

Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	87.2		mg/l	2.00	0.640	20	02/11/14 09:43	02/12/14 04:12	NA	1,6020A	BM
Chromium, Dissolved	0.00082	J	mg/l	0.00100	0.00020	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM
Cobalt, Dissolved	0.00043	J	mg/l	0.00500	0.00010	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM
Copper, Dissolved	0.00055	J	mg/l	0.00100	0.00010	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM
Iron, Dissolved	2.68		mg/l	0.0500	0.0130	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM
Magnesium, Dissolved	19.2		mg/l	0.0700	0.0230	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM
Manganese, Dissolved	0.6338		mg/l	0.01000	0.00200	20	02/11/14 09:43	02/12/14 04:12	NA	1,6020A	BM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	02/07/14 12:26	02/07/14 15:07	EPA 7470A	1,7470A	AK
Nickel, Dissolved	0.00592		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM
Potassium, Dissolved	11.2		mg/l	0.100	0.0270	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM
Selenium, Dissolved	0.00156	J	mg/l	0.00500	0.00030	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM
Silver, Dissolved	ND		mg/l	0.00040	0.00010	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM
Sodium, Dissolved	64.1		mg/l	2.00	0.300	20	02/11/14 09:43	02/12/14 04:12	NA	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM
Vanadium, Dissolved	0.00018	J	mg/l	0.00500	0.00010	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM
Zinc, Dissolved	0.02335		mg/l	0.01000	0.00120	1	02/11/14 09:43	02/12/14 04:00	NA	1,6020A	BM

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402995
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-03
Client ID: MW-4
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Water
Date Collected: 02/04/14 23:00
Date Received: 02/06/14
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	5.07		mg/l	1.00	0.200	100	02/07/14 10:37	02/10/14 19:22	EPA 3005A	1,6020A	BM
Antimony, Total	0.01087		mg/l	0.01000	0.00100	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Arsenic, Total	0.03614		mg/l	0.00500	0.00200	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Barium, Total	0.4036		mg/l	0.00500	0.00100	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00500	0.00100	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Cadmium, Total	0.00455		mg/l	0.00200	0.00050	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Calcium, Total	72.3		mg/l	1.00	0.320	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Chromium, Total	0.01355		mg/l	0.01000	0.00200	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Cobalt, Total	0.01013		mg/l	0.00500	0.00100	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Copper, Total	0.3471		mg/l	0.01000	0.00100	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Iron, Total	19.2		mg/l	0.500	0.130	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Lead, Total	1.322		mg/l	0.01000	0.00200	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Magnesium, Total	8.31		mg/l	0.700	0.230	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Manganese, Total	0.3464		mg/l	0.01000	0.00100	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Mercury, Total	0.00120		mg/l	0.00020	0.00006	1	02/07/14 07:53	02/07/14 12:32	EPA 7470A	1,7470A	AK
Nickel, Total	0.02426		mg/l	0.00500	0.00100	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Potassium, Total	5.78		mg/l	1.00	0.270	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Selenium, Total	0.00906	J	mg/l	0.0500	0.00300	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00400	0.00100	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Sodium, Total	318.		mg/l	1.00	0.150	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Thallium, Total	0.00047	J	mg/l	0.00500	0.00030	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Vanadium, Total	0.06138		mg/l	0.05000	0.00100	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Zinc, Total	1.585		mg/l	0.1000	0.01200	10	02/07/14 10:37	02/10/14 19:16	EPA 3005A	1,6020A	BM
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.0434		mg/l	0.0100	0.00200	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Antimony, Dissolved	0.00627		mg/l	0.00100	0.00010	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Arsenic, Dissolved	0.00605		mg/l	0.00050	0.00020	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Barium, Dissolved	0.07778		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Cadmium, Dissolved	0.00012	J	mg/l	0.00020	0.00005	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM

Project Name: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-03
Client ID: MW-4
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Water

Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	36.1		mg/l	0.100	0.0320	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Chromium, Dissolved	0.00133		mg/l	0.00100	0.00020	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Cobalt, Dissolved	0.00164		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Copper, Dissolved	0.00756		mg/l	0.00100	0.00010	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Iron, Dissolved	0.408		mg/l	0.0500	0.0130	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Lead, Dissolved	0.02326		mg/l	0.00100	0.00020	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Magnesium, Dissolved	4.26		mg/l	0.0700	0.0230	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Manganese, Dissolved	0.1264		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	02/07/14 12:26	02/07/14 15:12	EPA 7470A	1,7470A	AK
Nickel, Dissolved	0.00416		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Potassium, Dissolved	2.96		mg/l	0.100	0.0270	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Selenium, Dissolved	0.00205	J	mg/l	0.00500	0.00030	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Silver, Dissolved	0.00032	J	mg/l	0.00040	0.00010	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Sodium, Dissolved	173.		mg/l	2.00	0.300	20	02/11/14 09:43	02/12/14 04:56	NA	1,6020A	BM
Thallium, Dissolved	0.00007	J	mg/l	0.00050	0.00003	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Vanadium, Dissolved	0.00792		mg/l	0.00500	0.00010	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM
Zinc, Dissolved	0.1026		mg/l	0.01000	0.00120	1	02/11/14 09:43	02/12/14 04:50	NA	1,6020A	BM

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402995
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-04
Client ID: MW-5
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Water
Date Collected: 02/04/14 23:00
Date Received: 02/06/14
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	1.49		mg/l	0.100	0.0200	10	02/07/14 10:37	02/10/14 19:34	EPA 3005A	1,6020A	BM
Antimony, Total	0.00033	J	mg/l	0.00100	0.00010	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Arsenic, Total	0.01095		mg/l	0.00050	0.00020	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Barium, Total	0.1987		mg/l	0.00050	0.00010	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Beryllium, Total	0.00020	J	mg/l	0.00050	0.00010	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Cadmium, Total	0.00016	J	mg/l	0.00020	0.00005	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Calcium, Total	105.		mg/l	1.00	0.320	10	02/07/14 10:37	02/10/14 19:34	EPA 3005A	1,6020A	BM
Chromium, Total	0.00591		mg/l	0.00100	0.00020	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00223		mg/l	0.00050	0.00010	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Copper, Total	0.00586		mg/l	0.00100	0.00010	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Iron, Total	21.1		mg/l	0.0500	0.0130	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Lead, Total	0.04664		mg/l	0.00100	0.00020	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Magnesium, Total	9.24		mg/l	0.0700	0.0230	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Manganese, Total	1.558		mg/l	0.01000	0.00100	10	02/07/14 10:37	02/10/14 19:34	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/07/14 07:53	02/07/14 12:34	EPA 7470A	1,7470A	AK
Nickel, Total	0.01108		mg/l	0.00050	0.00010	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Potassium, Total	9.88		mg/l	0.100	0.0270	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Selenium, Total	0.00096	J	mg/l	0.00500	0.00030	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Sodium, Total	74.9		mg/l	1.00	0.150	10	02/07/14 10:37	02/10/14 19:34	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00839		mg/l	0.00500	0.00010	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Zinc, Total	0.1384		mg/l	0.01000	0.00120	1	02/07/14 10:37	02/10/14 19:28	EPA 3005A	1,6020A	BM
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.0152		mg/l	0.0100	0.00200	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM
Antimony, Dissolved	0.00048	J	mg/l	0.00100	0.00010	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM
Arsenic, Dissolved	0.00627		mg/l	0.00050	0.00020	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM
Barium, Dissolved	0.1366		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM

Project Name: 275 4TH AVENUE
Lab Number: L1402995
Project Number: 5981-01-04-4001
Report Date: 02/14/14

SAMPLE RESULTS

Lab ID: L1402995-04
Client ID: MW-5
Sample Location: 275 4TH AVE. BROOKLYN, NY
Matrix: Water

Date Collected: 02/04/14 23:00
Date Received: 02/06/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	99.4		mg/l	2.00	0.640	20	02/11/14 09:43	02/12/14 05:08	NA	1,6020A	BM
Chromium, Dissolved	0.00248		mg/l	0.00100	0.00020	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM
Cobalt, Dissolved	0.00050		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM
Copper, Dissolved	0.00110		mg/l	0.00100	0.00010	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM
Iron, Dissolved	10.3		mg/l	0.0500	0.0130	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM
Lead, Dissolved	0.00123		mg/l	0.00100	0.00020	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM
Magnesium, Dissolved	9.18		mg/l	0.0700	0.0230	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM
Manganese, Dissolved	1.732		mg/l	0.01000	0.00200	20	02/11/14 09:43	02/12/14 05:08	NA	1,6020A	BM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	02/07/14 12:26	02/07/14 15:14	EPA 7470A	1,7470A	AK
Nickel, Dissolved	0.00452		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM
Potassium, Dissolved	10.2		mg/l	0.100	0.0270	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM
Selenium, Dissolved	0.00125	J	mg/l	0.00500	0.00030	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM
Silver, Dissolved	ND		mg/l	0.00040	0.00010	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM
Sodium, Dissolved	80.2		mg/l	2.00	0.300	20	02/11/14 09:43	02/12/14 05:08	NA	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM
Vanadium, Dissolved	0.00084	J	mg/l	0.00500	0.00010	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM
Zinc, Dissolved	0.01452		mg/l	0.01000	0.00120	1	02/11/14 09:43	02/12/14 05:02	NA	1,6020A	BM

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402995
Report Date: 02/14/14

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): 01,03-04 Batch: WG669131-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/07/14 07:53	02/07/14 12:17	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): 01,03-04 Batch: WG669177-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	02/07/14 12:26	02/07/14 15:03	1,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01,03-04 Batch: WG669192-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Antimony, Total	0.00013	J	mg/l	0.00100	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Arsenic, Total	0.00021	J	mg/l	0.00050	0.00020	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Barium, Total	ND		mg/l	0.00050	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Calcium, Total	ND		mg/l	0.100	0.0320	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Chromium, Total	0.00039	J	mg/l	0.00100	0.00020	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Copper, Total	0.00016	J	mg/l	0.00100	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Iron, Total	ND		mg/l	0.0500	0.0130	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Magnesium, Total	ND		mg/l	0.0700	0.0230	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Manganese, Total	ND		mg/l	0.00100	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Nickel, Total	0.00011	J	mg/l	0.00050	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Potassium, Total	ND		mg/l	0.100	0.0270	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402995
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Selenium, Total	ND		mg/l	0.00500	0.00030	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Sodium, Total	0.0503	J	mg/l	0.100	0.0150	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM
Zinc, Total	ND		mg/l	0.01000	0.00120	1	02/07/14 10:37	02/10/14 17:48	1,6020A	BM

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): 01,03-04 Batch: WG669741-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00200	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Antimony, Dissolved	ND		mg/l	0.00100	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Arsenic, Dissolved	0.00026	J	mg/l	0.00050	0.00020	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Barium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Calcium, Dissolved	ND		mg/l	0.100	0.0320	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Chromium, Dissolved	0.00034	J	mg/l	0.00100	0.00020	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Copper, Dissolved	0.00017	J	mg/l	0.00100	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Iron, Dissolved	0.0214	J	mg/l	0.0500	0.0130	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0230	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Manganese, Dissolved	0.00011	J	mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Nickel, Dissolved	0.00019	J	mg/l	0.00050	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Potassium, Dissolved	ND		mg/l	0.100	0.0270	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Selenium, Dissolved	ND		mg/l	0.00500	0.00030	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Silver, Dissolved	ND		mg/l	0.00040	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Sodium, Dissolved	0.0975	J	mg/l	0.100	0.0150	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00010	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM
Zinc, Dissolved	ND		mg/l	0.01000	0.00120	1	02/11/14 09:43	02/12/14 03:16	1,6020A	BM

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001
Lab Number: L1402995
Report Date: 02/14/14

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: NA

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402995

Report Date: 02/14/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01,03-04 Batch: WG669131-2								
Mercury, Total	91		-		80-120	-		
Dissolved Metals - Westborough Lab Associated sample(s): 01,03-04 Batch: WG669177-2								
Mercury, Dissolved	106		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402995

Report Date: 02/14/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01,03-04 Batch: WG669192-2					
Aluminum, Total	104	-	80-120	-	
Antimony, Total	89	-	80-120	-	
Arsenic, Total	100	-	80-120	-	
Barium, Total	96	-	80-120	-	
Beryllium, Total	94	-	80-120	-	
Cadmium, Total	98	-	80-120	-	
Calcium, Total	105	-	80-120	-	
Chromium, Total	99	-	80-120	-	
Cobalt, Total	104	-	80-120	-	
Copper, Total	105	-	80-120	-	
Iron, Total	108	-	80-120	-	
Lead, Total	95	-	80-120	-	
Magnesium, Total	106	-	80-120	-	
Manganese, Total	100	-	80-120	-	
Nickel, Total	104	-	80-120	-	
Potassium, Total	101	-	80-120	-	
Selenium, Total	100	-	80-120	-	
Silver, Total	95	-	80-120	-	
Sodium, Total	105	-	80-120	-	
Thallium, Total	90	-	80-120	-	
Vanadium, Total	98	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402995

Report Date: 02/14/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01,03-04 Batch: WG669192-2					
Zinc, Total	105	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402995

Report Date: 02/14/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01,03-04 Batch: WG669741-2					
Aluminum, Dissolved	104	-	80-120	-	
Antimony, Dissolved	88	-	80-120	-	
Arsenic, Dissolved	99	-	80-120	-	
Barium, Dissolved	94	-	80-120	-	
Beryllium, Dissolved	92	-	80-120	-	
Cadmium, Dissolved	97	-	80-120	-	
Calcium, Dissolved	103	-	80-120	-	
Chromium, Dissolved	96	-	80-120	-	
Cobalt, Dissolved	101	-	80-120	-	
Copper, Dissolved	103	-	80-120	-	
Iron, Dissolved	117	-	80-120	-	
Lead, Dissolved	94	-	80-120	-	
Magnesium, Dissolved	107	-	80-120	-	
Manganese, Dissolved	106	-	80-120	-	
Nickel, Dissolved	102	-	80-120	-	
Potassium, Dissolved	101	-	80-120	-	
Selenium, Dissolved	100	-	80-120	-	
Silver, Dissolved	91	-	80-120	-	
Sodium, Dissolved	109	-	80-120	-	
Thallium, Dissolved	90	-	80-120	-	
Vanadium, Dissolved	96	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVENUE

Project Number: 5981-01-04-4001

Lab Number: L1402995

Report Date: 02/14/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01,03-04 Batch: WG669741-2					
Zinc, Dissolved	102	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG669131-4 QC Sample: L1402995-01 Client ID: MW-2												
Mercury, Total	0.00128	0.005	0.00572	89		-	-		75-125	-		20
Dissolved Metals - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG669177-4 QC Sample: L1402995-01 Client ID: MW-2												
Mercury, Dissolved	ND	0.005	0.00532	106		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

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): 01,03-04 QC Batch ID: WG669192-4 QC Sample: L1402952-02 Client ID: MS Sample										
Aluminum, Total	1.91	2	3.94	102		-	-	75-125	-	20
Antimony, Total	0.00077J	0.5	0.4475	90		-	-	75-125	-	20
Arsenic, Total	0.0050	0.12	0.1203	96		-	-	75-125	-	20
Barium, Total	0.0085	2	1.880	94		-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.04531	91		-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.04860	95		-	-	75-125	-	20
Calcium, Total	7.22	10	16.8	96		-	-	75-125	-	20
Chromium, Total	0.0157	0.2	0.2023	93		-	-	75-125	-	20
Cobalt, Total	0.0013	0.5	0.4973	99		-	-	75-125	-	20
Copper, Total	0.01191	0.25	0.2634	100		-	-	75-125	-	20
Iron, Total	1.93	1	2.91	98		-	-	75-125	-	20
Lead, Total	0.0054	0.51	0.4769	92		-	-	75-125	-	20
Magnesium, Total	1.66	10	11.6	99		-	-	75-125	-	20
Manganese, Total	0.0506	0.5	0.5300	96		-	-	75-125	-	20
Nickel, Total	0.0034	0.5	0.4984	99		-	-	75-125	-	20
Potassium, Total	22.0	10	30.0	80		-	-	75-125	-	20
Selenium, Total	0.001J	0.12	0.116	97		-	-	75-125	-	20
Silver, Total	ND	0.05	0.04520	90		-	-	75-125	-	20
Sodium, Total	205.	10	200	**0**	Q	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1060	88		-	-	75-125	-	20
Vanadium, Total	0.0240	0.5	0.4930	94		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

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): 01,03-04 QC Batch ID: WG669192-4 QC Sample: L1402952-02 Client ID: MS Sample									
Zinc, Total	0.0217	0.5	0.5231	100	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

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): 01,03-04 QC Batch ID: WG669741-4 QC Sample: L1402995-01 Client ID: MW-2										
Aluminum, Dissolved	ND	2	1.98	99		-	-	75-125	-	20
Antimony, Dissolved	0.00072J	0.5	0.4316	86		-	-	75-125	-	20
Arsenic, Dissolved	0.00330	0.12	0.1288	107		-	-	75-125	-	20
Barium, Dissolved	0.1022	2	2.024	96		-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.04910	98		-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.05110	100		-	-	75-125	-	20
Calcium, Dissolved	87.2	10	99.9	**127**	Q	-	-	75-125	-	20
Chromium, Dissolved	0.00082J	0.2	0.1988	99		-	-	75-125	-	20
Cobalt, Dissolved	0.00043J	0.5	0.5234	105		-	-	75-125	-	20
Copper, Dissolved	0.00055J	0.25	0.2710	108		-	-	75-125	-	20
Iron, Dissolved	2.68	1	4.38	123		-	-	75-125	-	20
Lead, Dissolved	ND	0.51	0.5016	98		-	-	75-125	-	20
Magnesium, Dissolved	19.2	10	31.1	111		-	-	75-125	-	20
Manganese, Dissolved	0.6338	0.5	1.145	102		-	-	75-125	-	20
Nickel, Dissolved	0.00592	0.5	0.5362	107		-	-	75-125	-	20
Potassium, Dissolved	11.2	10	22.2	106		-	-	75-125	-	20
Selenium, Dissolved	0.00156J	0.12	0.128	107		-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.04568	91		-	-	75-125	-	20
Sodium, Dissolved	64.1	10	74.2	101		-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1119	93		-	-	75-125	-	20
Vanadium, Dissolved	0.00018J	0.5	0.4996	100		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

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): 01,03-04 QC Batch ID: WG669741-4 QC Sample: L1402995-01 Client ID: MW-2									
Zinc, Dissolved	0.02335	0.5	0.5542	111	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG669131-3 QC Sample: L1402995-01 Client ID: MW-2						
Mercury, Total	0.00128	0.00070	mg/l	**59**	Q	20
Dissolved Metals - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG669177-3 QC Sample: L1402995-01 Client ID: MW-2						
Mercury, Dissolved	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG669192-3 QC Sample: L1402952-02 Client ID: DUP Sample						
Antimony, Total	0.00077J	0.00073J	mg/l	NC		20
Copper, Total	0.01191	0.01235	mg/l	4		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG669741-3 QC Sample: L1402995-01 Client ID: MW-2					
Aluminum, Dissolved	ND	ND	mg/l	NC	20
Antimony, Dissolved	0.00072J	0.00068J	mg/l	NC	20
Arsenic, Dissolved	0.00330	0.00292	mg/l	12	20
Barium, Dissolved	0.1022	0.1018	mg/l	0	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Chromium, Dissolved	0.00082J	0.00086J	mg/l	NC	20
Cobalt, Dissolved	0.00043J	0.00043J	mg/l	NC	20
Copper, Dissolved	0.00055J	0.00063J	mg/l	NC	20
Iron, Dissolved	2.68	2.69	mg/l	0	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Magnesium, Dissolved	19.2	19.2	mg/l	0	20
Nickel, Dissolved	0.00592	0.00615	mg/l	4	20
Potassium, Dissolved	11.2	11.3	mg/l	1	20
Selenium, Dissolved	0.00156J	0.00144J	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Thallium, Dissolved	ND	ND	mg/l	NC	20
Vanadium, Dissolved	0.00018J	0.00017J	mg/l	NC	20
Zinc, Dissolved	0.02335	0.02373	mg/l	2	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG669741-3 QC Sample: L1402995-01 Client ID: MW-2					
Calcium, Dissolved	87.2	88.7	mg/l	2	20
Manganese, Dissolved	0.6338	0.6442	mg/l	2	20
Sodium, Dissolved	64.1	64.6	mg/l	1	20

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

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
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1402995-01A	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1402995-01B	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1402995-01C	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1402995-01D	Amber 1000ml unpreserved	B	7	2.2	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1402995-01E	Amber 1000ml unpreserved	B	7	2.2	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1402995-01F	Amber 1000ml unpreserved	B	7	2.2	Y	Absent	NYTCL-8082-1200ML(7)
L1402995-01G	Amber 1000ml unpreserved	B	7	2.2	Y	Absent	NYTCL-8082-1200ML(7)
L1402995-01H	Amber 500ml unpreserved	B	7	2.2	Y	Absent	NYTCL-8081(7)
L1402995-01I	Amber 500ml unpreserved	B	7	2.2	Y	Absent	NYTCL-8081(7)
L1402995-01J	Plastic 500ml HNO3 preserved	B	<2	2.2	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)
L1402995-01K	Plastic 500ml HNO3 preserved	B	<2	2.2	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: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1402995-02A	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1402995-02B	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1402995-02C	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1402995-03A	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1402995-03B	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1402995-03C	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1402995-03D	Amber 1000ml unpreserved	B	7	2.2	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1402995-03E	Amber 1000ml unpreserved	B	7	2.2	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1402995-03F	Amber 1000ml unpreserved	C	7	2.4	Y	Absent	NYTCL-8082-1200ML(7)
L1402995-03G	Amber 1000ml unpreserved	C	7	2.4	Y	Absent	NYTCL-8082-1200ML(7)
L1402995-03H	Amber 500ml unpreserved	B	7	2.2	Y	Absent	NYTCL-8081(7)
L1402995-03I	Amber 500ml unpreserved	B	7	2.2	Y	Absent	NYTCL-8081(7)
L1402995-03J	Plastic 500ml HNO3 preserved	B	<2	2.2	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)
L1402995-03K	Plastic 500ml HNO3 preserved	C	<2	2.4	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)
L1402995-04A	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1402995-04B	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1402995-04C	Vial HCl preserved	A	N/A	2.7	Y	Absent	NYTCL-8260(14)
L1402995-04D	Amber 1000ml unpreserved	A	7	2.7	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1402995-04E	Amber 1000ml unpreserved	A	7	2.7	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1402995-04F	Amber 1000ml unpreserved	A	7	2.7	Y	Absent	NYTCL-8082-1200ML(7)
L1402995-04G	Amber 1000ml unpreserved	C	7	2.4	Y	Absent	NYTCL-8082-1200ML(7)

*Values in parentheses indicate holding time in days

Project Name: 275 4TH AVENUE
Project Number: 5981-01-04-4001

Lab Number: L1402995
Report Date: 02/14/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1402995-04H	Amber 500ml unpreserved	C	7	2.4	Y	Absent	NYTCL-8081(7)
L1402995-04J	Plastic 500ml HNO3 preserved	C	<2	2.4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1402995-04K	Plastic 500ml HNO3 preserved	A	<2	2.7	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:	275 4TH AVENUE	**Lab Number:**	L1402995
Project Number:	5981-01-04-4001	**Report Date:**	02/14/14

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

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

Terms

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

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with 'J' Qualifiers

Project Name:	275 4TH AVENUE	**Lab Number:**	L1402995
Project Number:	5981-01-04-4001	**Report Date:**	02/14/14

Data Qualifiers

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	275 4TH AVENUE	**Lab Number:**	L1402995
Project Number:	5981-01-04-4001	**Report Date:**	02/14/14

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 December 11, 2013

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 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, SM4500Cl-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.

CHAIN OF CUSTODY

L1402995

IMPACT ENVIRONMENTAL
170 Keyland Court, Bohemia, New York 11716
(Tel.) 631-269-8800 (Fax) 631-269-1599

Page 1 of 1

LAB NAME: ALPHA

RECEIVED DATE: 2/6/14

Serial_No:02141412:21

Client Information

Company Name: Impact Environmental
Address: 170 Keyland Court
City: Bohemia
Project Contact: B. HERNANDEZ
Phone #: 631-269-8800 **Fax #:** 631-269-1599
E-mail: BHERNANDEZ@impactenvironmental.com

Project Information

Project Name: 275 4TH AVENUE
Street: 275 4TH Ave
City: BROOKLYN **State:** NY **Zip:**
Project #: 5981-01-04-4001
Sampler's Name: B. HERNANDEZ
Sampler's Signature:

Sample Information / Collection / Containers / Analytical Information

LAB SAMPLE # (LAB USE ONLY)	Sample ID	IEC Project Code	Matrix Code	Sample Type	Sample Date	Time	Total # of bottles	NONE or OTHER*	ICE	HCL	Methanol (USEPA 5035)	Sodium Bisulfate (EPA 5035)	Impact Analytical Package A*	Impact Analytical Package B**	Impact Analytical Package C***	VOC 8260 (Analyte List for NY Part 375 and NJ NRDCC)	GP82 Analysis	VOCs 8260 (CP51 Analite List)	SVOCs 8270/NJ8 8260 PCB/PEST 8081/8082 CT065 1,4,1)	VOCs 8210 (CT065 1,4,1)	TAL METALS TOGS 1.1.1	Dissolved Metals (FF) TOGS 1.1.1.	Matrix Codes
02995[01]	1 MW-2	5981	L	G	2/4/14	11PM	9		X	X									X				
02	2 MW-2D						3													X			
03	3 MW-4						9												X				
04	4 MW-5						9												X				
01-05	5 MW-2 TOTAL METALS						1	HNO3													X		
01-06	6 MW-2 FILTERED						1															X	
03-07	7 MW-4 TOTAL METALS						1														X		
03-08	8 MW-4 FILTERED						1															X	
04-09	9 MW-5 TOTAL METALS						1														X		
04-10	10 MW-5 FILTERED						1															X	

Matrix Codes: L - Liquid; S - Soil; A - Air; OL - Oil; W - Wipe; PC - Paint Chips; SL - Sludge; SD - Solid; DW- Drinking Water; DISS - Dissolved

Sample Type: G=Grab; C=Composite; B=Blank

Turnaround Time (Business Days)

- [X] Standard - 5 day
- [ ] Standard - 4 day
- [ ] Standard - 3 day

Rush Service

- [ ] 48 Hour *RUSH*
- [ ] 24 Hour *RUSH*

(LAB USE ONLY)
TAT Approved By / Date:

Data Deliverable Information

- [ ] Results Only (Level-1)
- [ ] Results plus Misc. QC (Level-2)
- [ ] Results plus ALL QC (Level-3)
- [ ] PA QC Package
- [ ] NJ QC Package (Level3NJ)
- [ ] CLP Category A (Level-2)
- [ ] CLP Category B (Level-4)
- [ ] ASP QC Package (Level-4)
- [ ] Other _____
- [ ] EDD Format_____

(EDD Formats: Excel, pdf, EQUIS, GIS, GISKey, SPDES, Ascii, TAGM, OENJ)

REFERENCES

*Package A (proprietary) - Priority Pollutants Metals, SVOCs, PCB/Pest and Herbicides - to match all NJ DCSRS & NY Part 375 parameters and dectection limits. **Package B (proprietary)-Same as Package A, plus TCLP Metals & TPH. ***Package C (proprietary)- Same as Package B plus RCRA characteristics and Full TCLP

NOTES/COMMENTS:

* ANALYZE 1 TRIP BLANK FOR VOCs *

Sample custody must be documented below, each time samples change possession, with a signature, date, and time.

	Relinquished by Sampler:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1		12/6/14 1200	1	2	2-6-14 1855	2 2-6-14 1855
3	Relinquished by:	Date / Time: 2-6-14 2250	Received By: 3	Relinquished By: 4	Date / Time: 4	Received By: 4
5	Relinquished by:	Date / Time: 5	Received By: 5	Cooler Temp:_____	pH:_____	[ ] On Ice [ ] Sample Receipt Discrepancy(attach information)

COOLER INFORMATION

Form SS-2/Nov. 2013

ANALYTICAL REPORT

Lab Number:	L1402926
Client:	Impact Environmental 170 Keyland Ct Bohemia, NY 11716
ATTN:	Ben Hernandez-Salazar
Phone:	(631) 269-8800
Project Name:	275 4TH AVE
Project Number:	598101-04-4001
Report Date:	02/13/14

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

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

Project Name: 275 4TH AVE
Project Number: 598101-04-4001

Lab Number: L1402926
Report Date: 02/13/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1402926-01	SV-1	BROOKLYN, NY	02/05/14 00:15
L1402926-02	SV-2	BROOKLYN, NY	02/04/14 23:12
L1402926-03	SV-3	BROOKLYN, NY	02/05/14 01:30
L1402926-04	SV-4	BROOKLYN, NY	02/04/14 23:35

Project Name: 275 4TH AVE
Project Number: 598101-04-4001

Lab Number: L1402926
Report Date: 02/13/14

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: 275 4TH AVE **Lab Number:** L1402926
Project Number: 598101-04-4001 **Report Date:** 02/13/14

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on February 4, 2014. The canister certification results are provided as an addendum.

The sample designated SV-1 (L1402926-01) had a RPD for the pre- and post-flow controller calibration check (196% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 18.6 mL/minute; the final flow rate was 0.2 mL/minute. The final pressure recorded by the laboratory of the associated canister was -27.5 inches of mercury. The flow controller had water present in it. The client was contacted and the analysis of this sample was cancelled.

The WG669615-3 LCS recovery for vinyl acetate(158%) is above the upper 130% acceptance limit. None of the samples associated with this LCS have reportable amounts of these analytes.

The WG669615-8 LCS recoveries for Vinyl Acetate (176%), 1,1,2,2-Tetrachloroethane (132%) are above the upper 130% acceptance limit. None of the samples associated with this LCS have reportable amounts of these analytes.

Sample L1402926-03 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

Sample L1402926-03 The presence of Acetone could not be determined in this sample due to a non-target compound interfering with the identification and quantification of this compound.

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

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 02/13/14

AIR

Project Name: 275 4TH AVE
Project Number: 598101-04-4001
Lab Number: L1402926
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402926-02
Client ID: SV-2
Sample Location: BROOKLYN, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/10/14 20:42
Analyst: MB

Date Collected: 02/04/14 23:12
Date Received: 02/06/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	0.536	0.200	--	1.11	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	2.87	0.200	--	6.35	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	0.506	0.200	--	1.34	0.528	--		1
Ethanol	2.57	2.50	--	4.84	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.12	1.00	--	12.2	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	1.55	0.200	--	4.83	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.437	0.200	--	1.77	0.809	--		1
Methyl tert butyl ether	0.537	0.200	--	1.94	0.721	--		1
2-Butanone	1.12	0.200	--	3.30	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: 275 4TH AVE
Project Number: 598101-04-4001

Lab Number: L1402926
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402926-02
Client ID: SV-2
Sample Location: BROOKLYN, NY

Date Collected: 02/04/14 23:12
Date Received: 02/06/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	0.271	0.200	--	1.32	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	17.0	0.200	--	59.9	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	14.9	0.200	--	47.6	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	2.40	0.200	--	8.26	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	8.16	0.200	--	38.1	0.934	--		1
Heptane	5.75	0.200	--	23.6	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.994	0.200	--	3.75	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.511	0.200	--	2.22	0.869	--		1
p/m-Xylene	1.91	0.400	--	8.30	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: 275 4TH AVE
Project Number: 598101-04-4001
Lab Number: L1402926
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402926-02
Client ID: SV-2
Sample Location: BROOKLYN, NY
Date Collected: 02/04/14 23:12
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.03	0.200	--	4.47	0.869	--		1
4-Ethyltoluene	0.563	0.200	--	2.77	0.983	--		1
1,3,5-Trimethylbenzene	1.06	0.200	--	5.21	0.983	--		1
1,2,4-Trimethylbenzene	2.76	0.200	--	13.6	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	124		60-140
Bromochloromethane	115		60-140
chlorobenzene-d5	118		60-140

Project Name: 275 4TH AVE
Project Number: 598101-04-4001
Lab Number: L1402926
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402926-03 D
Client ID: SV-3
Sample Location: BROOKLYN, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/10/14 21:46
Analyst: MB

Date Collected: 02/05/14 01:30
Date Received: 02/06/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	6.47	2.00	--	14.3	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	25.0	--	ND	47.1	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	ND	10.0	--	ND	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Tertiary butyl Alcohol	ND	5.00	--	ND	15.2	--		10
Methylene chloride	ND	10.0	--	ND	34.7	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	4.83	2.00	--	15.0	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
2-Butanone	3.87	2.00	--	11.4	5.90	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: 275 4TH AVE
Project Number: 598101-04-4001

Lab Number: L1402926
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402926-03 D
Client ID: SV-3
Sample Location: BROOKLYN, NY

Date Collected: 02/05/14 01:30
Date Received: 02/06/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	2.00	--	ND	9.77	--		10
Tetrahydrofuran	ND	2.00	--	ND	5.90	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	87.7	2.00	--	309	7.05	--		10
1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Benzene	5.62	2.00	--	18.0	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	31.5	2.00	--	108	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	ND	2.00	--	ND	10.7	--		10
2,2,4-Trimethylpentane	851	2.00	--	3970	9.34	--		10
Heptane	12.6	2.00	--	51.6	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	2.00	--	ND	8.20	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	ND	2.00	--	ND	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	ND	2.00	--	ND	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
p/m-Xylene	ND	4.00	--	ND	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10
Styrene	ND	2.00	--	ND	8.52	--		10

Project Name: 275 4TH AVE
Project Number: 598101-04-4001

Lab Number: L1402926
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402926-03 D
Client ID: SV-3
Sample Location: BROOKLYN, NY

Date Collected: 02/05/14 01:30
Date Received: 02/06/14
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	ND	2.00	--	ND	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	118		60-140
Bromochloromethane	116		60-140
chlorobenzene-d5	114		60-140

Project Name: 275 4TH AVE
Project Number: 598101-04-4001
Lab Number: L1402926
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402926-04
Client ID: SV-4
Sample Location: BROOKLYN, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/10/14 21:14
Analyst: MB

Date Collected: 02/04/14 23:35
Date Received: 02/06/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.223	0.200	--	1.10	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	2.08	0.200	--	4.60	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	6.06	1.00	--	14.4	2.38	--		1
Trichlorofluoromethane	0.207	0.200	--	1.16	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	1.46	0.200	--	4.55	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.67	0.200	--	4.93	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: 275 4TH AVE
Project Number: 598101-04-4001

Lab Number: L1402926
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402926-04
Client ID: SV-4
Sample Location: BROOKLYN, NY

Date Collected: 02/04/14 23:35
Date Received: 02/06/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	4.42	0.200	--	15.6	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	3.75	0.200	--	12.0	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.462	0.200	--	1.59	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	4.26	0.200	--	19.9	0.934	--		1
Heptane	1.22	0.200	--	5.00	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.98	0.200	--	7.46	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.257	0.200	--	1.12	0.869	--		1
p/m-Xylene	0.630	0.400	--	2.74	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: 275 4TH AVE
Project Number: 598101-04-4001

Lab Number: L1402926
Report Date: 02/13/14

SAMPLE RESULTS

Lab ID: L1402926-04
Client ID: SV-4
Sample Location: BROOKLYN, NY

Date Collected: 02/04/14 23:35
Date Received: 02/06/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	128		60-140
Bromochloromethane	117		60-140
chlorobenzene-d5	116		60-140

Project Name: 275 4TH AVE
Project Number: 598101-04-4001
Lab Number: L1402926
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/10/14 12:48

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02-04 Batch: WG669615-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: 275 4TH AVE
Project Number: 598101-04-4001
Lab Number: L1402926
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/10/14 12:48

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02-04 Batch: WG669615-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: 275 4TH AVE
Project Number: 598101-04-4001
Lab Number: L1402926
Report Date: 02/13/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/10/14 12:48

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02-04 Batch: WG669615-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVE
Project Number: 598101-04-4001

Lab Number: L1402926
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02-04 Batch: WG669615-3								
Chlorodifluoromethane	83		-		70-130	-		
Propylene	94		-		70-130	-		
Propane	78		-		70-130	-		
Dichlorodifluoromethane	95		-		70-130	-		
Chloromethane	86		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	95		-		70-130	-		
Methanol	71		-		70-130	-		
Vinyl chloride	81		-		70-130	-		
1,3-Butadiene	80		-		70-130	-		
Butane	81		-		70-130	-		
Bromomethane	76		-		70-130	-		
Chloroethane	78		-		70-130	-		
Ethyl Alcohol	78		-		70-130	-		
Dichlorofluoromethane	79		-		70-130	-		
Vinyl bromide	76		-		70-130	-		
Acrolein	72		-		70-130	-		
Acetone	114		-		70-130	-		
Acetonitrile	83		-		70-130	-		
Trichlorofluoromethane	103		-		70-130	-		
iso-Propyl Alcohol	84		-		70-130	-		
Acrylonitrile	73		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVE

Project Number: 598101-04-4001

Lab Number: L1402926

Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02-04 Batch: WG669615-3								
Pentane	82		-		70-130	-		
Ethyl ether	80		-		70-130	-		
1,1-Dichloroethene	87		-		70-130	-		
tert-Butyl Alcohol	80		-		70-130	-		
Methylene chloride	97		-		70-130	-		
3-Chloropropene	88		-		70-130	-		
Carbon disulfide	72		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	92		-		70-130	-		
trans-1,2-Dichloroethene	80		-		70-130	-		
1,1-Dichloroethane	92		-		70-130	-		
Methyl tert butyl ether	83		-		70-130	-		
Vinyl acetate	**158**	Q	-		70-130	-		
2-Butanone	91		-		70-130	-		
cis-1,2-Dichloroethene	100		-		70-130	-		
Ethyl Acetate	80		-		70-130	-		
Chloroform	93		-		70-130	-		
Tetrahydrofuran	79		-		70-130	-		
2,2-Dichloropropane	78		-		70-130	-		
1,2-Dichloroethane	96		-		70-130	-		
n-Hexane	98		-		70-130	-		
Isopropyl Ether	90		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 4TH AVE
Project Number: 598101-04-4001

Lab Number: L1402926
Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02-04 Batch: WG669615-3								
Ethyl-Tert-Butyl-Ether	91		-		70-130	-		
1,1,1-Trichloroethane	115		-		70-130	-		
1,1-Dichloropropene	97		-		70-130	-		
Benzene	90		-		70-130	-		
Carbon tetrachloride	123		-		70-130	-		
Cyclohexane	95		-		70-130	-		
Tertiary-Amyl Methyl Ether	86		-		70-130	-		
Dibromomethane	93		-		70-130	-		
1,2-Dichloropropane	103		-		70-130	-		
Bromodichloromethane	106		-		70-130	-		
1,4-Dioxane	87		-		70-130	-		
Trichloroethene	84		-		70-130	-		
2,2,4-Trimethylpentane	97		-		70-130	-		
Methyl methacrylate	111		-		70-130	-		
Heptane	104		-		70-130	-		
cis-1,3-Dichloropropene	106		-		70-130	-		
4-Methyl-2-pentanone	106		-		70-130	-		
trans-1,3-Dichloropropene	94		-		70-130	-		
1,1,2-Trichloroethane	114		-		70-130	-		
Toluene	82		-		70-130	-		
1,3-Dichloropropane	79		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVE

Project Number: 598101-04-4001

Lab Number: L1402926

Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02-04 Batch: WG669615-3								
2-Hexanone	96		-		70-130	-		
Dibromochloromethane	93		-		70-130	-		
1,2-Dibromoethane	94		-		70-130	-		
Butyl Acetate	75		-		70-130	-		
Octane	72		-		70-130	-		
Tetrachloroethene	89		-		70-130	-		
1,1,1,2-Tetrachloroethane	91		-		70-130	-		
Chlorobenzene	90		-		70-130	-		
Ethylbenzene	89		-		70-130	-		
p/m-Xylene	88		-		70-130	-		
Bromoform	91		-		70-130	-		
Styrene	88		-		70-130	-		
1,1,2,2-Tetrachloroethane	110		-		70-130	-		
o-Xylene	90		-		70-130	-		
1,2,3-Trichloropropane	90		-		70-130	-		
Nonane (C9)	89		-		70-130	-		
Isopropylbenzene	84		-		70-130	-		
Bromobenzene	81		-		70-130	-		
o-Chlorotoluene	81		-		70-130	-		
n-Propylbenzene	82		-		70-130	-		
p-Chlorotoluene	80		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 4TH AVE

Project Number: 598101-04-4001

Lab Number: L1402926

Report Date: 02/13/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02-04 Batch: WG669615-3								
4-Ethyltoluene	77		-		70-130	-		
1,3,5-Trimethylbenzene	89		-		70-130	-		
tert-Butylbenzene	85		-		70-130	-		
1,2,4-Trimethylbenzene	95		-		70-130	-		
Decane (C10)	84		-		70-130	-		
Benzyl chloride	73		-		70-130	-		
1,3-Dichlorobenzene	92		-		70-130	-		
1,4-Dichlorobenzene	91		-		70-130	-		
sec-Butylbenzene	83		-		70-130	-		
p-Isopropyltoluene	77		-		70-130	-		
1,2-Dichlorobenzene	93		-		70-130	-		
n-Butylbenzene	86		-		70-130	-		
1,2-Dibromo-3-chloropropane	90		-		70-130	-		
Undecane	88		-		70-130	-		
Dodecane (C12)	100		-		70-130	-		
1,2,4-Trichlorobenzene	96		-		70-130	-		
Naphthalene	85		-		70-130	-		
1,2,3-Trichlorobenzene	87		-		70-130	-		
Hexachlorobutadiene	96		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: 275 4TH AVE
Project Number: 598101-04-4001

Lab Number: L1402926
Report Date: 02/13/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02-04 QC Batch ID: WG669615-5 QC Sample: L1402918-03 Client ID: DUP Sample						
Propylene	ND	ND	ppbV	NC		25
Dichlorodifluoromethane	ND	ND	ppbV	NC		25
Chloromethane	ND	ND	ppbV	NC		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethyl Alcohol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	18.4	21.1	ppbV	14		25
Trichlorofluoromethane	ND	ND	ppbV	NC		25
iso-Propyl Alcohol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	14.5	17.0	ppbV	16		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	2.59	3.53	ppbV	**31**	Q	25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 275 4TH AVE
Project Number: 598101-04-4001

Lab Number: L1402926
Report Date: 02/13/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02-04 QC Batch ID: WG669615-5 QC Sample: L1402918-03 Client ID: DUP Sample					
1,1-Dichloroethane	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
Vinyl acetate	ND	ND	ppbV	NC	25
2-Butanone	130	129	ppbV	1	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Chloroform	2.75	2.73	ppbV	1	25
Tetrahydrofuran	551	465	ppbV	17	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	ND	ND	ppbV	NC	25
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
Benzene	3.06	2.71	ppbV	12	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Cyclohexane	2.04	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	2.71	2.52	ppbV	7	25
Trichloroethene	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 275 4TH AVE
Project Number: 598101-04-4001

Lab Number: L1402926
Report Date: 02/13/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02-04 QC Batch ID: WG669615-5 QC Sample: L1402918-03 Client ID: DUP Sample					
Heptane	2.88	2.58	ppbV	11	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	69.7	69.7	ppbV	0	25
2-Hexanone	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	4.04	3.94	ppbV	3	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 275 4TH AVE
Project Number: 598101-04-4001

Lab Number: L1402926
Report Date: 02/13/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02-04 QC Batch ID: WG669615-5 QC Sample: L1402918-03 Client ID: DUP Sample					
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25
Benzyl chloride	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	4.65	4.52	ppbV	3	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Project Name: 275 4TH AVE

Lab Number: L1402926

Project Number: 598101-04-4001

Report Date: 02/13/14

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1402926-01	SV-1	0352	#30 SV	02/04/14	98445	CLOGGED & GAGE	-	-	-	Pass	18.6	0.2	196
L1402926-01	SV-1	444	2.7L Can	02/04/14	98445	L1402053-01	Pass	-29.6	-27.5	-	-	-	-
L1402926-02	SV-2	0576	#30 SV	02/04/14	98445		-	-	-	Pass	17.7	15.9	11
L1402926-02	SV-2	233	2.7L Can	02/04/14	98445	L1402053-01	Pass	-29.5	-2.7	-	-	-	-
L1402926-03	SV-3	0146	#20 SV	02/04/14	98445		-	-	-	Pass	18.0	20.4	13
L1402926-03	SV-3	370	2.7L Can	02/04/14	98445	L1402053-01	Pass	-29.5	0.3	-	-	-	-
L1402926-04	SV-4	0090	#30 SV	02/04/14	98445		-	-	-	Pass	18.0	20.4	13
L1402926-04	SV-4	475	2.7L Can	02/04/14	98445	L1402053-01	Pass	-29.3	3.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1402053
Report Date: 02/13/14

Air Canister Certification Results

Lab ID: L1402053-01
Client ID: CAN 370 SHELF 15
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/25/14 16:20
Analyst: RY

Date Collected: 01/23/14 16:47
Date Received: 01/24/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1402053
Report Date: 02/13/14

Air Canister Certification Results

Lab ID: L1402053-01
Client ID: CAN 370 SHELF 15
Sample Location:
Date Collected: 01/23/14 16:47
Date Received: 01/24/14
Field Prep: Not Specified

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1402053
Report Date: 02/13/14

Air Canister Certification Results

Lab ID: L1402053-01
Client ID: CAN 370 SHELF 15
Sample Location:
Date Collected: 01/23/14 16:47
Date Received: 01/24/14
Field Prep: Not Specified

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1402053
Report Date: 02/13/14

Air Canister Certification Results

Lab ID: L1402053-01
Client ID: CAN 370 SHELF 15
Sample Location:
Date Collected: 01/23/14 16:47
Date Received: 01/24/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1402053
Report Date: 02/13/14

Air Canister Certification Results

Lab ID: L1402053-01
Client ID: CAN 370 SHELF 15
Sample Location:
Date Collected: 01/23/14 16:47
Date Received: 01/24/14
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1402053

Project Number: CANISTER QC BAT **Report Date:** 02/13/14

Air Canister Certification Results

Lab ID: L1402053-01
Client ID: CAN 370 SHELF 15
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/25/14 16:20
Analyst: RY

Date Collected: 01/23/14 16:47
Date Received: 01/24/14
Field Prep: Not Specified

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1402053
Report Date: 02/13/14

Air Canister Certification Results

Lab ID: L1402053-01
Client ID: CAN 370 SHELF 15
Sample Location:
Date Collected: 01/23/14 16:47
Date Received: 01/24/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1402053
Report Date: 02/13/14

Air Canister Certification Results

Lab ID: L1402053-01
Client ID: CAN 370 SHELF 15
Sample Location:
Date Collected: 01/23/14 16:47
Date Received: 01/24/14
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	103		60-140
bromochloromethane	104		60-140
chlorobenzene-d5	101		60-140

Project Name: 275 4TH AVE
Project Number: 598101-04-4001

Lab Number: L1402926
Report Date: 02/13/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler	
N/A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1402926-01A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	CANCELLED()
L1402926-02A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)
L1402926-03A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)
L1402926-04A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	275 4TH AVE	**Lab Number:**	L1402926
Project Number:	598101-04-4001	**Report Date:**	02/13/14

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

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

Terms

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

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

Report Format: Data Usability Report

Project Name:	275 4TH AVE	**Lab Number:**	L1402926
Project Number:	598101-04-4001	**Report Date:**	02/13/14

Data Qualifiers

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

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

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

Certification Information

Last revised December 11, 2013

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 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, SM4500Cl-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.

Serial_No:02131416:29

Alpha Analytical
320 Forbes Blvd
Mansfield, MA 02048-1806
Tel: 508-822-9300
Fax: 508-822-3288

AIR Chain-of-Custody - NJ

Date Rec'd in Lab: 2/6/14 | ALPHA Job#: L1402926

1 of 1 COCs

Client Contact Information

Company: IMPACT ENV.
Address: 170 KEYLAND CT
City/State/Zip: BOHEMIA, NY
Phone: 631-239-8800
FAX:
Email: BHERNANDEZ@IMPACTENVIRONMENTAL.COM
Site Contact: B HERNANDEZ
Site Contact Phone: 631-334-2354

Project Information

Project Name: 275 4TH AVE
Project No: 5981 01-04-4001
Site/Location: BROOKLYN NY
Project Manager: B. HERNANDEZ

Analysis Turn-Around Time

[X] Standard (Specify) 5 DAY
[ ] Rush (Specify)

NJ DEP Information

Bureau: Division: Contract No:

Report Information - Data Deliverables:

[ ] FAX:
[X] ADEx [ ] Criteria Checker:
[X] EMail (standard pdf report)

Billing Information

[X] Same as Client Info PO #:

ALPHA LAB ID (Lab Use Only)	Sample Identification	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field (Hg) (Start)	Canister Pressure in Field (Hg) (Stop)	~~EXT~~ Interior Temp. (F) (Start)	~~EXT.~~ Interior Temp. (F) (Stop)	Outgoing Canister Pressure (Hg) (Note1)	Incoming Canister Pressure (Hg) (Note 2)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout (ml/min) (Note1)	Batch Cert ID (Note 1)	Analysis: TO-15 (CNY)	Analysis: EPA 3C	Matrix: Indoor/Ambient Air	Matrix: Soil Gas
092926-01	SV-1	2/4/14	2129	2415	-29.91	-28.83	32	31	-29.6		0352	444	2.7	18.6	L1402053	X			X
-02	SV-2		2111	2312	-30.12	-5.17	32	31	-29.5		0576	233		17.7					
-03	SV-3		2328	0130	-30.13	-2.40	31	30	-29.5		0146	370		18.0					
-04	SV-4		2148	2335	-30.05	-0.13	32	31	-29.3		0090	475		18.0					

Custody Seals:
Outgoing Seal No: (refer to crate seal) 2607
Incoming Seal No: (if applicable) 2606

Temperature (Fahrenheit)

	Ambient	Maximum	Minimum
Start	32	34	30
Stop	31	34	30

Pressure (inches of Hg)

	Ambient	Maximum	Minimum
Start	30.35	30.38	30.32
Stop	30.32	30.38	30.32

Individual Preparing Canister/Containers and Laboratory Canister Certification
Name: Lisa Barrett
Signature:

Footnotes:
(1) Refer to equipment tags for these readings.
(2) Readings provided in data deliverable package.

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time:	Canisters Received by:	Date/Time:
Samples Relinquished by:	Date/Time: 2/6/14 1200	Received by:	Date/Time: 2/6/14 1200
Relinquished by:	Date/Time: 2-6-14 1901	Received by:	Date/Time: 2-6-14 1901

Tom Tobin 2-6-14 22:50 — 2/6/14 22:50 — 2/7/14 03:00 via Mansfield lab 2/7/14 0300

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

Form: 101-06 September 16, 2011
Note: Combined External Chain of Custody and NJDEP Field Test Data Sheet