

210 N. 12TH STREET

BROOKLYN, NEW YORK

BLOCK 2291 LOT 17

Remedial Investigation Report

NYC BCP Site Number: 12CBCP024K

NYC OER E-Designation Project Number: 12EHAZ050K

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REMEDIAL INVESTIGATION REPORT

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LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC BCP	New York City Brownfield 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, Charles Sosik, 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 210 N. 12th Street Site, (NYC BCP Site No. 12CBCP024K). 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.

Charles B. Sosik, P.G.

10/20/11

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 210 N. 12th Street in the Williamsburg section of Brooklyn, New York and is identified as Block 2291 and Lot 17 on the New York City Tax Map. **Figure 1** shows the Site location. The Site is 0.24-acres (10,487-sq.ft.) and is bounded by N. 12th Street to the north, an existing 4-story building on Lot 51 to the south, Driggs Avenue to the east, and new residential construction on Lot 1 to the west. A map of the site boundary is shown in **Figure 2**. Currently, the Site is a vacant lot. Construction on the lot was initiated in 2007 and included the excavation and disposal of the top 2-4 feet of soil across the Site. The construction project stalled during the recent economic downturn and has remained in this state for the past 3-4 years.

Summary of Proposed Redevelopment Plan

The proposed development at the Site includes the construction of a new 8-story apartment building. The structure will be steel, block and plank (Const. Class: I-B as per NYC BC) with Wood Pile foundation. The building includes parking, recreational space, mechanical space as well as a lobby on the first floor and apartments from floor 2 to 8. The 9th floor is allocated as storage space for each of the residential units. The gross floor area is approximately 47,000 ft² and has 43 residential apartments. The project does not include a basement level. The footprint of the new building covers the entire lot and there are no proposed landscaped or exposed soil areas.

The layout of the proposed site development is presented in **Figure 3**. The current zoning designation is M1-2/R7A. The proposed use is consistent with existing zoning for the property.

Summary of Past Uses of Site and Areas of Concern

Historic use of the property includes industrial / commercial including a chemical manufacturer,

a paint/ink manufacturer, and a textile manufacturer.

The AOCs identified for this site include:

1. Former UST area
2. Historic Fill
3. Past use as chemical manufacturing/ storage

Summary of the Work Performed under the Remedial Investigation

ADIR Group, 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 19 soil borings across the entire project Site, and collected 32 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 5 groundwater monitoring wells throughout the Site to establish groundwater flow and collected 13 groundwater samples for chemical analysis to evaluate groundwater quality;
4. Installed 3 soil vapor probes around Site perimeter and collected 3 samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property is 14 feet above sea level.
2. Depth to groundwater ranges from 3 to 6 feet at the Site.
3. Groundwater flow is generally from south to north beneath the Site.
4. The stratigraphy of the site, from the surface down, consists of 10 feet of fill material overlying clay with native bog material that extends as deep as 20 feet below the surface.
5. Soil samples tested during the remedial investigation showed a variety of petroleum VOCs in most samples collected and many of these samples exceeded Track 1 Unrestricted Use Soil Cleanup Objectives (SCOs). Of these, three VOCs, all benzene derivatives exceeded Track 2 Restricted Residential SCOs. Total petroleum related VOC concentrations exceeded 100 ppm in some cases and are attributed to a petroleum spill onsite that is being actively managed by NYSDEC. PCE, TCE and other chlorinated hydrocarbons were not detected in onsite soil samples. Similarly, SVOCs were also

commonly identified in soil. Various PAH compounds exceeded Track 1 SCOS including 6 PAH compounds that also exceeded Track 2 Restricted Residential SCOs. PAH compounds are attributed to both the petroleum spill in soils in the vicinity of the USTs and to the presence of historical fill onsite. Petroleum discharges to soil and groundwater are currently being addressed by NYS DEC under Spill number 0703695. Pesticides were not detected in onsite soils and PCBs were detected in several soil samples but were found at low concentrations and below Track 1 SCOs. The 2007 investigation showed that soils contain a variety of metals above both Track 1 and Track 2 Restricted Residential SCOs, including arsenic (6 of 15 samples exceed Track 2), copper (1 of 15 samples exceed Track 2), lead (9 of 15 samples exceed Track 2), mercury (10 of 15 exceed Track 2) and selenium (1 of 15 samples exceed Track 2). The relatively high concentrations of metals are likely related to the historic fill at the site and also possibly to the result of historic manufacturing operations at the site. Considerable removal of soil from the site was performed by a prior developer and ranges from the top 2 to 4 feet of soil and much of the soil exceeding SCOs has already been removed from the property, as confirmed by the September 2011 sampling.

6. Groundwater samples tested during the remedial investigation showed a variety of petroleum VOCs in groundwater. In 2001, concentrations of 9 of these compounds exceed Part 703.5 Class GA groundwater quality standards (GQS), however sampling in 2011 show only 3 to 5 compounds above GQS and limited to two of the four sampling locations. Concentrations of total VOCs ranged from 474 to 948 ug/L in 2007 and from non-detect to 203 ug/L in June 2011 and from non-detect to 26 ug/L in September 2011. The September 2011 results showed a total of 3 parameters slightly above GQS. The petroleum VOCs reported are attributed to a petroleum spill onsite that is being actively managed by NYSDEC. Six SVOCs were also reported in groundwater above GQS in 2007, however, SVOCs in groundwater were not detected in 2011. No PCE or TCE were identified in onsite groundwater samples. Pesticides and PCBs were not detected in groundwater. Metals in groundwater were observed above GQS, including arsenic and sodium. The most recent sampling event showed arsenic at 40 ug/l and moderately above the GWS of 25 ug/l.
7. Soil vapor samples tested during the remedial investigation showed a wide variety of VOCs including BTEX and associated petroleum derivative compounds. Petroleum

compounds were generally low and consistent with background levels though some portion may be attributable to the on-site spill. Several chlorinated VOC were also identified including PCE, which was found in 2 of 3 samples with a maximum concentration of 200 ug/m³, and TCE, which was found in 2 of 3 samples with a maximum concentration of 5.6 ug/m³. PCE and TCE were not detected in any onsite soil or groundwater samples and are attributed to offsite sources. Acetone and methylene chloride were also identified in vapor samples.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Adir Group, LLC has applied to enroll in the New York City Brownfield Cleanup Program (NYC BCP) to investigate and remediate a 0.24-acre site located at 210 N. 12th Street in the Williamsburg section of Brooklyn, New York. Residential use is proposed for the property. A Remedial Investigation (RI) was completed at the site in April 2007. 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 210 N. 12th Street in the Williamsburg section of Brooklyn, New York and is identified as Block 2291 and Lot 17 on the New York City Tax Map. **Figure 1** shows the Site location. The Site is 0.24-acres (10,487-sq.ft.) and is bounded by N. 12th Street to the north, an existing 4-story building on Lot 51 to the south, Driggs Avenue to the east, and new residential construction on Lot 1 to the west. A map of the site boundary is shown in **Figure 2**. Currently, the Site is a vacant construction lot. Construction on the lot was initiated in 2007 and included the excavation and disposal of the top 2-4 feet of soil across the Site. The construction project stalled during the economic downturn beginning in 2007 and has remained in this state for the past 3-4 years.

1.2 PROPOSED REDEVELOPMENT PLAN

The proposed development at the Site includes the construction of a new 8-story apartment building. The structure shall be steel, block and plank (Const. Class: I-B as per NYC BC) with Wood Pile foundation. The building includes parking, recreational space, mechanical space as well as a lobby on the first floor. The building will include a total of 43 residential apartments including five 1-bedroom apartments and two 2-bedroom apartments on floors 2 through 6; two 2-bedroom and two 3-bedroom on the 7th floor; and two 2-bedroom and one 3-bedroom on the 8th floor. The 9th floor is allocated as storage space for each of the residential units. The gross

floor area is approximately 47,000 ft². The project does not include a basement level. The footprint of the new building covers the entire lot and there are no proposed landscaped or exposed soil areas.

The layout of the proposed site development is presented in **Figure 3**. The current zoning designation is M1-2/R7A. The proposed use is consistent with existing zoning for the property.

1.3 DESCRIPTION OF SURROUNDING PROPERTY

Historically the neighborhood was predominantly commercial and light industrial, however in the past 10 years many of the properties have been redeveloped with multi-family residential buildings. Adjacent properties include:

- North: N. 12th Street and McCarren Park,
- South: 4-story building used as office space,
- East: Church and adjacent community greenspace
- West: new construction, mixed use residential-commercial (retail) building

There are no identified schools or daycare facilities located within a 500 foot radius. **Figure 4** shows the surrounding land usage.

2.0 SITE HISTORY

2.1 PAST USES AND OWNERSHIP

Historic use of the property has been industrial / commercial including a chemical manufacturer, a paint/ink manufacturer, and a textile manufacturer.

2.2 PREVIOUS INVESTIGATIONS

Phase I ESA – PWGC 3/07

The Phase I Report prepared by PWGC was completed for the combined lots (including both the subject Lot 17 and the adjacent Lot 51). The report indicated that the past use of the property included a chemical manufacturer, a paint/ink manufacturer and a textile manufacturer. The report also identified one closed 3,000 gallon fuel oil UST in place on offsite adjacent lot 51 and two onsite 2,000 gallon gasoline USTs removed in 2006.

Phase II Subsurface Investigation – PWGC 8/07

P.W. Grosser Consulting performed a Phase II subsurface investigation in August 2007 which included both the subject lot (17) and the adjacent lot (51) to the south.

The Phase II included the installation of sixteen borings and seven groundwater monitoring wells. Phase II report identified SVOCs and metals in several soil samples. The report also identified greatest VOC and lead concentrations present in soils in the vicinity of the two former gasoline USTs.

VOCs above 703.5 Class GA Groundwater Quality Standards were detected in 4 of 10 samples in the vicinity of the former gasoline USTs. SVOCs, at concentrations slightly exceeding the NYSDEC Groundwater Standards, were detected in three of the ten groundwater samples collected.

The soil results when compared to CP51 restricted residential soil cleanup objectives indicate that only a single parameter, 1,2,4-trimethybenze, exceeded the objectives at only 3 locations B8,

B9 and B12. The results of the groundwater samples demonstrate that the level of soil contamination is not significantly affecting groundwater quality.

2.3 SITE INSPECTION

EBC personnel inspected the Site on June 10, 2011 during the supplemental subsurface investigation performed at the request of the NYSDEC in reference to Spill No. 0703695. The inspection described the property as vacant land in which had been prepared for the construction of a new building. This work included excavation and removal of onsite soils from 2 to 4 feet below existing grade and the installation of wooden piles throughout the property. **Figure 5** shows the extent of excavation conducted in 2007. **Figure 6** shows the locations of installed piles present at the site and the location of soil, soil gas and groundwater sampling points.

2.4 AREAS OF CONCERN

The AOCs identified for this site include:

1. Former UST Area (shown on the Site plan Figure 2).
2. Historic Fill in shallow soils
3. Past use as chemical manufacturing/ storage

3.0 PROJECT MANAGEMENT

3.1 PROJECT ORGANIZATION

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Charles B. Sosik, P.G.

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

ADIR Group, LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Performed a geophysical investigation of the property (in 2006);
3. Installed 12 soil borings across the entire project Site, and collected 23 soil samples for chemical analysis from the soil borings to evaluate soil quality;
4. Installed 5 groundwater monitoring wells throughout the Site to establish groundwater flow and collected 11 groundwater samples for chemical analysis to evaluate groundwater quality;
5. Installed 3 soil vapor probes around Site perimeter and collected 3 samples for chemical analysis.

4.1 GEOPHYSICAL INVESTIGATION

As documented in the Phase II Subsurface Investigation Report (PWGC 4/07), a geophysical survey of the property was previously performed in March 2006 by Naeva Geophysics. The purpose of the survey was to determine if undocumented USTs and any other buried objects were present. According to geophysical report, Naeva performed the survey using a split-box metal detector (Fisher Model TW-6) and ground penetrating radar (GPR). Anomalies detected with the TW-6 then investigated further using GPR. The results of the survey identified two USTs on Lot 17. The USTs on Lot 17 were subsequently removed.

4.2 BORINGS AND MONITORING WELLS

Drilling and Soil Logging

In September 2011, 7 additional soil borings were completed to assess residual impacts after the top 2-4 feet of soil was excavated in 2007.

April 2007: On June 28 and 29, 2007, PWGC advanced 8 soil borings on the Lot 17 Site using a track mounted Geoprobe probe rig. Continuous macro core sampling was performed in four foot intervals to a final depth of 8 to 12 feet below grade at each location in each boring. A PWGC hydrogeologist was on-site during the April 2007 sampling to characterize and field screen the samples for the presence of VOCs using a PID.

June 2011: A total of 4 soil borings (B10, B12, B13 and B15) were advanced on June 10, 2011, as shown on **Figure 7**. All borings were advanced to a final depth of 20 feet below grade by continuous core sampling utilizing a five-foot steel macro-core sampler with acetate liners and Geoprobe direct-push equipment. The dual tube method of sampling was used at all locations to maintain sample core integrity and to obtain representative samples. During the June 2011 supplemental investigation, soil samples were collected continuously from grade to the soil boring termination depth of 20 feet to fully characterize the soil column and vertical extent of contamination. Retrieved sample cores (in 5 foot lengths) were field screened for the presence of VOCs with a photo-ionization detector (PID) and visually inspected for evidence of contamination. Elevated PID readings and petroleum odors were observed in samples from the 5-7 foot intervals of borings B10 and B12. No physical evidence of contamination was observed in the intervals above or below the 5-7 foot depth of these borings or in any interval of the remaining borings (B13, B15).

September 2011: A total of 7 soil borings (B7, B8, B9, B11, B13 and B15) were advanced on September 18, 2011 to determine current levels of several metals at previous boring locations. Sample depth interval ranged from 0-2 feet to 6-8 feet below existing grade. All borings were advanced using Geoprobe direct-push equipment and samples collected using a four-foot steel macro-core sampler with acetate liners.

Boring logs include a description of soil/fill types; soil screening results from field visual, olfactory and PID; depth to groundwater; soil characteristics, appearance and mottling; presence of odor, vapors, soil discoloration; and presence of free and/or residual product.

Boring logs are provided in **Appendix A**. A map showing the location of soil borings and monitor wells is shown in **Figure 7**.

Groundwater Monitoring Well Construction

As requested by the DEC, groundwater monitoring wells were installed at each boring location. Wells were constructed of 1-inch pvc with 10 feet of 0.010 slot screen installed to a total depth of 15 feet. Monitor well locations are shown on **Figure 7**.

Survey

As part of the June 2011 investigation, the relative casing elevation of each of the wells (MW-10, MW-12, MW-13, MW-15) was surveyed to the nearest 0.010 foot using a Topcon A-6 site level. The horizontal position of the borings and wells was located to the nearest 0.10 foot by obtaining measurements from the property lines or other permanent Site feature.

Water Level Measurement

As part of the June 2011 investigation following completion of groundwater wells the depth to groundwater was measured in each of the monitoring wells to the nearest 0.010 ft using an electronic water level meter. Water level and survey data are included in **Table 1**.

4.3 SAMPLE COLLECTION AND CHEMICAL ANALYSIS

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

Soil Sampling

April 2007:

Two soil sample intervals from each boring were retained for analysis of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270. All borings were collected utilizing a four-foot steel macro-core sampler with acetate liners and Geoprobe direct-push equipment. Non-disposable sampling equipment was cleaned using distilled water and Alconox detergent with a distilled water rinse prior to the collection of each sample.

Two soil sample intervals from each boring, with the exception of the borings performed in the basement of the existing building, were submitted for analysis of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, pesticides/PCBs and TAL Metals. Soil samples were delivered, via courier service, under chain of custody documentation and were analyzed by a New York State Department of Health certified laboratory.

June 2011: Two soil sample intervals from each boring were retained for analysis of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270. All borings were collected utilizing a five-foot steel macro-core sampler with acetate liners and Geoprobe direct-push equipment. The dual tube method of sampling was used at all locations to maintain sample core integrity and to obtain representative samples. A new acetate liner was used at each location to prevent cross contamination between samples. Non-disposable sampling equipment was cleaned using distilled water and Alconox detergent with a distilled water rinse prior to the collection of each sample.

In accordance with the requested protocol, two samples were retained from each boring location: one sample from unsaturated zone representing the highest PID reading and one sample from the groundwater interface. This resulted in one sample from the 5-7 foot interval and one from the 8-10 foot interval of each of the four borings.

Samples were retained in properly labeled, laboratory supplied glassware and placed in individual, labeled, zip lock bags. After placing in the bags, the samples were stored in a cooler with water and ice to maintain a temperature of 4oC. Samples were transported under chain-of-custody documentation to EBC's office by the sampling crew and picked up by laboratory dispatched courier for delivery to the laboratory.

September 2011: All borings were collected utilizing a four-foot steel macro-core sampler with acetate liners and Geoprobe direct-push equipment. A new acetate liner was used at each location to prevent cross contamination between samples. Non-disposable sampling equipment was cleaned using distilled water and Alconox detergent with a distilled water rinse prior to the collection of each sample.

In accordance with the requested protocol, one to two samples were retained from each boring based on the location and interval for which the confirmatory sampling was required. This resulted in one sample from the 0-2 ft interval at all 7 locations (B7-B9, B11, B12, B13, B15), one sample from the 5-7 ft interval of B11 and one sample from the 6-8 ft interval at B15.

Samples were retained in properly labeled, laboratory supplied glassware and placed in individual, labeled, zip lock bags. After placing in the bags, the samples were stored in a cooler with water and ice to maintain a temperature of 4oC. Samples were transported under chain-of-custody documentation to EBC's office by the sampling crew and picked up by laboratory dispatched courier for delivery to the laboratory. Samples were submitted for analysis of one or more of the following heavy metals depending on location: arsenic, copper, lead or mercury.

The fundamental QA objective with respect to accuracy, precision, and sensitivity of analysis for laboratory analytical data is to achieve the QC acceptance of the analytical protocol. The accuracy, precision and completeness requirements are addressed by the laboratory for all data generated. This includes the preparation and analysis of method blanks at the required frequency and surrogate recovery analysis before purging or extraction. The QC elements that are important to this project are completeness of field data, sample custody, sample holding times, sample preservation, sample storage, instrument calibration and blank contamination.

A total of 32 soil samples (April 2007, June 2011, September 2011) were collected for chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, are reported in **Tables 2 through 8**. **Figure 7** shows the location of samples collected in this investigation.

Groundwater Sampling

April 2007: Sample collection during the 2007 subsurface investigation consisted of purging a minimum of three casing volumes from each well with a peristaltic pump followed by sample collection using a disposable polyethylene bailer and transferred directly into laboratory supplied glassware. Groundwater samples collected from the temporary wells were collected from polyethylene tubing which was discarded between sampling locations.

June and July 2011: During the 2011 supplemental investigation each of the wells was sampled using a peristaltic pump and polyethylene tubing which was replaced between sampling locations. Each of the wells pumped dry and had to be allowed to recharge to collect enough water to fill a 1 liter bottle and two 40 ml vials. The recharge rate into the wells was extremely slow due to the clay material and lack of a good water transmitting zone.

At the DEC's request, a second round of groundwater samples were collected from the monitoring wells on July 13, 2011.

September 2011: Groundwater samples were collected from two temporary wells using a peristaltic pump and polyethylene tubing which was replaced between sampling locations. Samples were collected in laboratory supplied containers which consisted of 100 ml nalgene bottles.

Samples were retained in properly labeled, and pre-acidified (VOCs) laboratory supplied glassware and placed in individual, labeled, zip lock bags. After placing in the bags, the samples were stored in a cooler with water and ice to maintain a temperature of 4oC. Samples were transported under chain-of-custody documentation to EBC's office by the sampling crew and picked up by laboratory dispatched courier for delivery to the laboratory.

The fundamental QA objective with respect to accuracy, precision, and sensitivity of analysis for laboratory analytical data is to achieve the QC acceptance of the analytical protocol. The accuracy, precision and completeness requirements are addressed by the laboratory for all data generated. This includes the preparation and analysis of method blanks at the required frequency and surrogate recovery analysis before purging or extraction. The QC elements that are important to this project are completeness of field data, sample custody, sample holding times, sample preservation, sample storage, instrument calibration and blank contamination.

A total of thirteen groundwater samples (April 2007, June/July 2011, September 2011) were collected for chemical analysis during this RI. were collected for chemical analysis during this RI. The three samples collected in April 2007 were submitted for analysis of VOCs, SVOCs, PCBs, Pesticides, and Metals. The eight samples collected in June/July 2011 were only analyzed

for STARS list VOCs and SVOCs. The two samples collected in September 2011 were only analyzed for specific metals identified at levels above their respective Track 2 Restricted Residential SCOs in soil borings. Groundwater sample collection data is reported in **Tables 9-14**. Sampling logs with information on purging and sampling of groundwater monitor wells for the April 2007 investigation are included in the April 2007. Phase II Report.. Groundwater sampling logs for the 2011 supplemental investigation are included in **Appendix B**. **Figure 7** shows the location of the groundwater samples. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

Three soil vapor probes were installed and three soil vapor samples were collected for chemical analysis during this RI. Vapor implants were installed on September 2, 2011, using Geoprobe™ equipment and tooling. The vapor implants that were installed were the Geoprobe™ Model AT86 series, which are constructed of a 6-inch length of double woven stainless steel wire. The implants were installed to a depth of 3 feet below grade at all locations. Each implant was attached to ¼ inch polyethylene tubing which extended approximately 18 inches beyond that needed to reach the surface. The tubing was capped with a ¼ inch plastic end to prevent the infiltration of foreign particles into the tube. Coarse sand was placed around the vapor implant to a height of approximately 1 foot above the bottom of the implant. The remainder of the borehole was sealed with a bentonite slurry to the surface.

Prior to collecting the sample, one to three volumes (i.e., the volume of the sample probe and tube) of air was purged from the implant using a calibrated vacuum pump. After purging, a 6-liter Summa® canister, fitted with a 2-hour flow regulator, was attached to the surface tube of each of the six vapor implants. Sample identification, date, start time, start vacuum, end time and end vacuum were recorded on tags attached to each canister and on a sample log sheet (**Appendix C**). Samples were submitted to York Laboratory Services, Inc. for laboratory analysis of VOCs EPA Method TO-15.

Soil vapor sampling locations are shown in **Figure 7**. Soil vapor sample results are reported in **Table 15**. Soil vapor sampling logs are included in **Appendix C**. 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 performed by the analytical laboratory.
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and were Alpha Woods Hole Labs, Analytical Laboratory Services, Inc. and York Analytical Laboratories
Chemical Analytical Methods	<p>Soil analytical methods:</p> <ul style="list-style-type: none"> • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000) <p>Groundwater analytical methods:</p> <ul style="list-style-type: none"> • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000) <p>Air analytical methods:</p> <ul style="list-style-type: none"> • VOCs by EPA Method TO15

Results of Chemical Analyses

Laboratory data for soil and groundwater are summarized in **Tables 2-14**. Laboratory reports for all samples evaluated in this RIR are provided in digital form in **Appendix D**.

5.0 ENVIRONMENTAL EVALUATION

5.1 GEOLOGICAL AND HYDROGEOLOGICAL CONDITIONS

Stratigraphy

According to the boring logs, soils at the site consist primarily of clay with fill material in the upper 10 feet, and clay with native bog material from 10-20 feet below the surface. Groundwater is limited to a narrow zone within the clay-fill material. Historically this area was low-lying marsh-land which was filled beginning in the early to mid 1800's. Excavation work performed on the adjacent property to the west noted fill materials including ash and pottery to a depth of 15 feet followed by a bog mat and clay.

Hydrogeology

Groundwater is present at a depth of approximately 3 feet below the surface. Groundwater recharge and flow through the site is expected to be minimal due to thinness of the saturated zone and the low hydraulic conductivity of the materials present. These conditions were observed during excavation for a basement level foundation on the adjacent property to the west. Following the initial pumping of accumulated water in the excavation recharge for the entire area was less than 100 gallons per day.

A table of water level data for all monitor wells is included in **Table 1**. The average depth to groundwater is 3 feet below the surface and the range in depth is 3 to 6 feet. A map of groundwater level elevations with groundwater contours and inferred flow lines is shown in **Figure 8**. Groundwater flow is from south to north.

5.2 SOIL SAMPLING RESULTS

Soil sample results were compared to the Unrestricted Use and Restricted Residential Use Soil Cleanup Objectives (SCOs) as presented in NYSDEC CP51 Soil Cleanup Guidance (10/21/10). Analytical data for the soil samples are summarized in **Tables 2 through 7**, and a copy of the laboratory analytical report is included in **Appendix D**.

Soil samples tested during the remedial investigation showed a variety of petroleum VOCs in most samples collected and many of these samples exceeded Track 1 Unrestricted Use Soil

Cleanup Objectives (SCOs). Of these, three VOCs, all benzene derivatives exceeded Track 2 Restricted Residential SCOs. Total petroleum related VOC concentrations exceeded 100 ppm in some cases and are attributed to a petroleum spill onsite that is being actively managed by NYSDEC. PCE, TCE and other chlorinated hydrocarbons were not detected in onsite soil samples. Similarly, SVOCs were also commonly identified in soil. Various PAH compounds exceeded Track 1 SCOS including 6 PAH compounds that also exceeded Track 2 Restricted Residential SCOs. PAH compounds are attributed to both the petroleum spill in soils in the vicinity of the USTs and to the presence of historical fill onsite. Petroleum discharges to soil and groundwater are currently being addressed by NYS DEC under Spill number 0703695. Pesticides were not detected in onsite soils and PCBs were detected in several soil samples but were found at low concentrations and below Track 1 SCOs. The 2007 investigation showed that soils contain a variety of metals above both Track 1 and Track 2 Restricted Residential SCOs, including arsenic (6 of 15 samples exceed Track 2), copper (1 of 15 samples exceed Track 2), lead (9 of 15 samples exceed Track 2), mercury (10 of 15 exceed Track 2) and selenium (1 of 15 samples exceed Track 2). The relatively high concentrations of metals are likely related to the historic fill at the site and also possibly to the result of historic manufacturing operations at the site. Considerable removal of soil from the site was performed by a prior developer and ranges from the top 2 to 4 feet of soil and much of the soil exceeding SCOs has already been removed from the property, as confirmed by the September 2011 sampling.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site.

5.3 GROUNDWATER SAMPLING RESULTS

Groundwater sample results were compared to the water quality standards specified in NYSDEC Groundwater Quality Standards (GQSs). Analytical data for the groundwater samples are summarized in **Tables 8 through 13**.

Groundwater samples tested during the remedial investigation showed a variety of petroleum VOCs in groundwater. In 2007, concentrations of 9 of these compounds exceed Part 703.5 Class GA groundwater quality standards (GQS), however sampling in June 2011 show only 3 to 5 compounds above GQS and limited to two of the four sampling locations. Concentrations of total

VOCs ranged from 474 to 948 ug/L in 2007 and from non-detect to 203 ug/L in June 2011 and from non-detect to 26 ug/L in July 2011. The July 2011 results showed a total of 3 parameters slightly above GQS. The petroleum VOCs reported are attributed to a petroleum spill onsite that is being actively managed by NYSDEC. Six SVOCs were also reported in groundwater above GQS in 2007, however, SVOCs in groundwater were not detected in 2011. No PCE or TCE were identified in onsite groundwater samples. Pesticides and PCBs were not detected in groundwater. Metals in groundwater were observed above GQS, including arsenic and sodium. The most recent sampling event showed arsenic at 40 ug/l and moderately above the GWS of 25 ug/l.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site.

5.4 SOIL VAPOR SAMPLING RESULTS

Soil vapor samples tested during the remedial investigation showed a wide variety of VOCs including BTEX and associated petroleum derivative compounds. Petroleum compounds were generally low. Several chlorinated VOC were also identified including PCE, which was found in 2 of 3 samples with a maximum concentration of 200 ug/m³, and TCE, which was found in 2 of 3 samples with a maximum concentration of 5.6 ug/m³. PCE and TCE were not detected in any onsite soil or groundwater samples and are attributed to offsite sources. Acetone and methylene chloride were also identified in vapor samples.

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 14**.

5.5 HAZARDOUS WASTE DISPOSAL EVALUATION

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

A recent survey of the site shows the tops of 130 wooden support pilings which were previously installed on the site as part of the new buildings foundation. Foundation plans however show 180

pilings which the developer confirms have been installed but which may be partially covered by soil. Any excavation on the site will be impeded and/or severely limited by the presence of these pilings.

TABLES

Table 1
210 N. 12th Street, Brooklyn, New York
Well Survey Data

Well No.	Reading	Casing Elevation	DTW	GW ELV
MW10	3.00	97.00	6.78	90.22
MW12	6.32	93.68	3.34	90.34
MW13	6.34	93.66	3.32	90.34
MW15	3.36	96.64	6.12	90.52

TABLE 2
 210 N. 12th Street, Brooklyn, New York
 Soil Analytical Results
 Volatile Organic Compounds
 PWGC - April 2007

COMPOUND	**Track 1 Unrestricted Cleanup Objectives	**Restricted Residential Cleanup Objectives	B7 (0-2 ft)	B8 (2-4 ft)	B8(6-8 ft)	B9(6-8 ft)	B10(0-2 ft)	B10(6-8 ft)	B11(0-2 ft)	B11(6-8 ft)	B12(0-2 ft)	B12(6-8 ft)	B13(0-2 ft)	B13(6-8 ft)	B15(0-2 ft)	B15(6-8 ft)
			ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
1,1,1,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	680	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	270	26,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	330	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3,600	52,000	ND	ND	67,000	150,000	1100	ND	860	ND	190,000	ND	ND	140,000	13,000	
1,2-Dichlorobenzene	1,100	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	20	3,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8,400	52,000	ND	ND	22,000	ND	680	ND	ND	ND	680	ND	ND	51,000	ND	ND
1,3-Dichlorobenzene	2,400	49,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1,800	13,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	100,000	ND	180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	60	4,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	760	2,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1,100	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	370	49,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1,000	41,000	ND	ND	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene			2,000	3	ND	16,000	28	7,200	ND	34,000	ND	17,000	ND	10,000	4,400	3,700
MTBE	930	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	50	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	12,000	-	ND	ND	17,000	20,000	250	6,300	58	36,000	ND	23,000	ND	13,000	5,200	12,000
n-Propylbenzene	3,900	100,000	7,300	10	11,000	44,000	81	18,000	45	75,000	4.1	37,000	ND	29,000	9,800	11,000
Naphthalene	12,000	100,000	ND	ND	ND	ND	72	ND	ND	ND	ND	9100	ND	ND	ND	ND
o-Xylene	260	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene			ND	61	8,300	10,000	100	ND	ND	ND	ND	5500	ND	ND	ND	ND
p-&m-Xylenes	260	100,000	ND	ND	29,000	ND	67	ND	ND	ND	ND	2,000	ND	ND	ND	ND
sec-Butylbenzene	11,000	100,000	7,100	11	9,300	19,000	80	17,000	51	51,000	3	18,000	ND	20,000	ND	11,000
tert-Butylbenzene	5,900	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	1,300	19,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	700	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	470	21,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	20	900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

** - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Not-detected

Bold/highlighted- Indicated exceedance of the Unrestricted SCOs

Bold/highlighted- Indicated exceedance of the Restricted Residential SCOs

TABLE 3
 210 N. 12th Street, Brooklyn, New York
 Soil Analytical Results
 Semi-Volatile Organic Compounds
 PWGC - April 2007

COMPOUND	**Track 1 Unrestricted Cleanup Objectives	**Restricted Residential Cleanup Objectives	B7 (0-2 ft)		B8 (2-4 ft)		B8(6-8 ft)		B9(0-2 ft)		B9(6-8 ft)		B10(0-2 ft)		B10(6-8 ft)		B11(0-2 ft)		B11(6-8 ft)		B12(0-2 ft)		B12(6-8 ft)		B13(0-2 ft)		B13(6-8 ft)		B15(0-2 ft)		B15(6-8 ft)	
			ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
1,2,4-Trichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,4-Dinitrotoluene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,6-Dinitrotoluene			500	2200	400	380	430	400	470	410	4400	400	430	1800	420	390	480															
2-Chloronaphthalene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Methylnaphthalene			51	ND	ND	120	400	ND	400	460	8700	ND	380	470	1700	390	140															
3,3'-Dichlorobenzidine			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
3-Nitroaniline			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-Bromophenyl phenyl ether			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-Chloro-3-methylphenol			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-Chloroaniline			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-Chlorophenyl phenyl ether			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-Nitroaniline			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acenaphthene	20,000	100,000	45	410	180	ND	240	ND	21	ND	1200	ND	100	440	ND	56	42															
Acenaphthylene	100,000	100,000	ND	680	200	22	180	130	77	120	3800	ND	22	ND	45	93																
Aniline			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Anthracene		100,000	57	1600	620	38	400	88	140	230	6200	88	84	360	130	170	170															
Benzo(a)anthracene	1,000	1,000	120	4100	1600	110	1700	260	1200	940	18000	300	260	840	170	510	440															
Benzo(a)pyrene	1,000	1,000	78	4100	1300	73	1700	520	1200	1100	23000	400	220	660	110	470	370															
Benzo(b)fluoranthene	1,000	1,000	82	4100	900	110	1100	430	800	770	22000	250	140	460	84	400	280															
Benzo(g,h,i)perylene	100,000	100,000	39	2800	750	81	900	550	820	800	11000	370	110	350	ND	390	210															
Benzo(k)fluoranthene	800	3,900	79	4100	1400	140	1900	700	1300	1200	16000	430	230	750	130	620	510															
Butyl benzyl phthalate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
Bis(2-chloroethoxy)methane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
Bis(2-chloroethyl)ether			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
Bis(2-chloroisopropyl)ether			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
Bis(2-ethylhexyl)phthalate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
Chrysene	1,000	3,900	110	3200	1200	200	1400	220	970	790	14000	270	200	660	140	440	380															
Dibenz(a,h)anthracene	330	330	ND	770	210	27	310	140	240	3700	140	ND	240	ND	77	ND	ND															
Dibenzofuran			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
Diethylphthalate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
Dimethylphthalate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
Di-n-butylphthalate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
Di-n-octylphthalate			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
Fluoranthene	100,000	100,000	330	9800	3400	490	2300	180	1200	1300	24000	400	400	1900	520	990	1200															
Fluorene	30,000	30,000	52	490	230	ND	280	ND	40	ND	2400	ND	53	390	120	86	77															
Hexachlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
Hexachlorobutadiene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
Hexachlorocyclopentadiene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
Hexachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
Indeno(1,2,3-cd)pyrene	500	500	44	2800	780	76	950	520	820	810	12000	330	120	380	ND	400	220															
Isophorone			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
Naphthalene	12,000	100,000	170	ND	160	260	460	100	240	450	1900	ND	930	900	1200	510	130															
Nitrobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
N-Nitrosodiphenylamine			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
N-Nitrosodi-n-propylamine			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
Phenanthrene	100,000	100,000	200	6400	2200	370	1200	84	320	600	12000	160	170	1400	460	650	460															
Phenol			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
Pyrene	100,000	100,000	350	8800	3200	370	2100	240	1400	1400	19000	390	350	1800	430	880	1000															
Pyridine			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															

Notes:

** - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Not detected

NA - Guidance value not available

Bold/highlighted- Indicated exceedance of the Unrestricted SCOs

Bold/highlighted- Indicated exceedance of the Restricted Residential SCOs

TABLE 4
 210 N. 12th Street, Brooklyn, New York
 Soil Analytical Results
 Pesticides / PCBs
 PWGC - April 2007

COMPOUND	**Track 1 Unrestricted Cleanup Objectives	**Restricted Residential Cleanup Objectives	B7 (0-2 ft)	B8 (2-4 ft)	B8(6-8 ft)	B9(0-2 ft)	B9(6-8 ft)	B10(0-2 ft)	B10(6-8 ft)	B11(0-2 ft)	B11(6-8 ft)	B12(0-2 ft)	B12(6-8 ft)	B13(0-2 ft)	B13(6-8 ft)	B15(0-2 ft)	B15(6-8 ft)
			µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg
4,4-DDD	3.3	13000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4-DDE	3.3	8900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4-DDT	3.3	7900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	5	97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	20	480	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	36	360	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane Total	94	4,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	40	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	5	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	2,400	24,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	2,400	24,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	2,400	24,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	14	11,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	NS		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	42	2,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-Chlordane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	100	1,000	ND	ND	ND	ND	ND	ND	57.4	44.9	ND	ND	ND	ND	ND	39.5	63.5
PCB-1260	100	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

** - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Not-detected

U - Analyte not detected

NA - Guidance value not available

Bold/highlighted- Indicated exceedance of the Unrestricted SCOs

Bold/highlighted- Indicated exceedance of the Restricted Residential SCOs

TABLE 5
 210 N. 12th Street, Brooklyn, New York
 Soil Analytical Results
 Metals
 PWGC - April 2007

COMPOUND	**Track 1 Unrestricted Cleanup Objectives	**Restricted Residential Cleanup Objectives	B7 (0-2 ft)	B8 (2-4 ft)	B8(6-8 ft)	B9(0-2 ft)	B9(6-8 ft)	B10(0-2 ft)	B10(6-8 ft)	B11(0-2 ft)	B11(6-8 ft)	B12(0-2 ft)	B12(6-8 ft)	B13(0-2 ft)	B13(6-8 ft)	B15(0-2 ft)	B15(6-8 ft)
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aluminum			5,300	4,600	8,100	5,500	5,500	6,700	8,300	4,500	4,600	7,400	12,000	4,700	6,700	5,700	5,400
Antimony			ND	7.3	ND	6	ND	ND	3.9	7.6	ND	4.1	ND	ND	ND	4.4	ND
Arsenic	13	16	22	18	5.9	35	9.2	3.8	11	7.8	12	21	2.9	10	7.9	33	17
Barium	350	400	85	200	63	380	80	39	140	160	180	220	62	320	80	200	270
Beryllium	7	72	0.32	0.26	0.57	0.51	0.29	0.36	0.47	0.29	0.29	0.57	0.71	0.37	0.51	0.44	0.39
Cadmium	2.5 c	4	ND	2.2	ND	2.6	ND	ND	ND	0.92	ND	1.2	ND	0.92	ND	3.4	0.84
Calcium			25000	70000	1400	3500	4400	40000	45000	12000	8600	6800	1800	12000	3400	11000	11000
Chromium	30 c	180	22	37	27	21	17	11	20	63	81	88	21	21	21	21	18
Cobalt			4.6	5.3	7.6	11	15	3.3	5.9	6.7	6.8	13	6.6	5.4	11	6.2	9.5
Copper	50	270	260	170	26	800	50	11	67	170	110	210	16	320	53	220	210
Iron			22000	14000	19000	38000	59000	8100	18000	16000	24000	21000	22000	9500	48000	14000	23000
Lead	63 c	400	480	1400	54	1300	160	30	420	400	1400	710	90	430	740	660	1000
Magnesium			3100	5100	2200	1900	1400	11000	4200	1400	1300	2200	1800	3400	1800	2200	2000
Manganese	1600 c	2,000	350	140	400	460	530	400	340	160	360	350	630	470	540	180	240
Mercury	0.18 c	0.81	4	12	0.14	30	0.42	0.41	1.5	9.2	2	9.1	0.17	27	0.19	3.4	4.4
Nickel	30	310	4	10	14	24	18	12	11	10	13	21	12	15	18	13	16
Potassium			16	1400	1200	1000	950	850	1200	700	720	960	750	1100	1200	780	740
Selenium	3.9c	180	850	ND	ND	ND	2.5	ND	4.2	3.4							
Silver	2	180	ND	ND	ND	0.52	ND	0.5	ND	ND	ND						
Sodium			ND	5700	130	2200	130	530	910	1300	180	1400	320	2000	290	2200	1600
Thallium			1000	ND	ND	ND	2.5	ND									
Vanadium			ND	16	33	30	31	14	20	17	20	32	35	16	32	22	23
Zinc	109 c	10,000	17	3500	49	1100	73	71	260	600	380	690	45	960	100	1100	710

Notes:

** - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Not-detected

NA - Guidance value not available

Bold/highlighted- Indicated exceedance of the Unrestricted SCOs

Bold/highlighted- Indicated exceedance of the Restricted Residential SCOs

TABLE 6
 210 N. 12th Street, Brooklyn, New York
 Soil Analytical Results 6-10-11
 Volatile Organic Compounds

COMPOUND	Unrestricted Soil Cleanup Objectives	Restricted Residential Soil Cleanup Objectives	B10	B10	B12	B12	B13	B13	B15	B15
			5-7 ft	8-10 ft	5-7 ft	8-10 ft	5-7 ft	8-10 ft	5-7 ft	8-10 ft
			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
1,2,4-Trimethylbenene	3,600	52,000	ND	2.2	214,000	10.8	6	ND	25	20.7
1,3,5-Trimethylbenzene	8,400	52,000	ND	ND	55,300	2.4	ND	ND	ND	6.2
Benzene	60	4,800	2.3	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1,000	41,000	65.7	4	50,300	8	5.1	ND	4.9	9.2
Isopropylbenzene			5,050	27.1	19,500	ND	4	ND	10.9	4.4
MTBE	930	100,000	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene			24.1	ND	14,700	ND	ND	ND	ND	ND
n-Butylbenzene	12,000	100,000	ND	10	ND	ND	ND	ND	13.3	ND
n-Propylbenzene	3,900	100,000	11,200	37	45,400	ND	ND	ND	18.6	3.9
o-Xylene	260	100,000	9.5	ND	ND	3.7	ND	ND	ND	3.5
p-&m-Xylenes	260	100,000	85.8	6.3	ND	21.9	78	ND	7.9	19.7
p-Isopropyltoluene			ND	ND	14,300	ND	ND	ND	ND	ND
sec-Butylbenzene	11,000	100,000	15,900	47	32,400	ND	ND	ND	29.7	ND
tert-Butylbenzene	5,900	100,000	ND	ND	ND	ND	ND	ND	2.8	ND
Toluene	700	100,000	6.0	ND	ND	ND	ND	ND	ND	3.7
Total VOCs			32,343	133	445,900	47	93	0	113	71

Notes:

** - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Not-detected

NS - No Standard

Bold/highlighted- Indicated exceedance of the Unrestricted SCOs

Bold/highlighted- Indicated exceedance of the Restricted Residential SCOs

TABLE 7
 210 N. 12th Street, Brooklyn, New York
 Soil Analytical Results 6-10-11
 Semi-Volatile Organic Compounds

COMPOUND	Unrestricted Soil Cleanup Objectives	Restricted Residential Soil Cleanup Objectives	B10	B10	B12	B12	B13	B13	B15	B15
			5-7 ft	8-10 ft	5-7 ft	8-10 ft	5-7 ft	8-10 ft	5-7 ft	8-10 ft
			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Acenaphthene	20,000	10,000	ND	70.2	ND	544	ND	66	84	ND
Acenaphthylene	100,000	100,000	ND	ND	ND	355	ND	ND	ND	97
Anthracene	100,000	100,000	ND	ND	ND	3,280	ND	162	ND	68
Benzo(a)anthracene	1,000	1,000	220	197	ND	6,850	ND	434	157	386
Benzo(a)pyrene	1,000	1,000	330	166	ND	5,230	ND	408	153	445
Benzo(b)fluoranthene	1,000	1,000	361	160	ND	3,710	ND	368	121	402
Benzo(g,h,i)perylene	100,000	100,000	ND	117	ND	3,350	ND	288	107	410
Benzo(k)fluoranthene	800	3,900	406	163	ND	4,180	ND	411	140	455
Chrysene	1,000	3,900	251	191	ND	6,450	ND	475	176	458
Dibenzo(a,h)anthracene	330	330	ND	ND	ND	1,320	ND	101	ND	147
Fluoranthene	100,000	100,000	319	409	ND	13,000	71	1,040	413	749
Fluorene	30,000	30,000	ND	ND	ND	777	ND	92	65	ND
Indeno(1,2,3-cd)pyrene	500	500	137	104	ND	3,080	ND	247	102	371
Naphthalene	12,000	100,000	24.1	ND	14,700	ND	ND	ND	29.7	ND
Phenanthrene	100,000	100,000	103	215	ND	8,350	ND	658	287	309
Pyrene	100,000	100,000	285	352	ND	10,500	ND	785	358	685

Notes:

* - NYSDEC Technical and Administrative Guidance Memorandum 4046, 1994

** - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Not-detected

NS - No Standard

Bold/highlighted- Indicated exceedance of the Unrestricted SCOs

Bold/highlighted- Indicated exceedance of the Restricted Residential SCOs

TABLE 8
 210 N. 12th Street, Brooklyn, New York
 Soil Analytical Results
 Metals
 September 2011

COMPOUND	NYSDEC Part 375-6 Unrestricted Use Soil Cleanup Objectives*	NYSDEC Part 375-6 Restricted Residential Use Soil Cleanup Objectives*	NYSDEC Part 375-6 Commercial Use Soil Cleanup Objectives*	NYSDEC Part 375-6 Industrial Use Soil Cleanup Objectives*	B7 0-2' (4-6' BOSG) mg/Kg	B8 0-2' (4-6' BOSG) mg/Kg	B9 0-2' (4-6' BOSG) mg/Kg	B11(0-2') (3-5' BOSG) mg/Kg	B11(5-7') (8-10' BOSG) mg/Kg	B12(0-2') (3-5' BOSG) mg/Kg	B13(0-2') (3-5' BOSG) mg/Kg	B15(0-2') (2-4' BOSG) mg/Kg	B15(6-8') (8-10' BOSG) mg/Kg
Arsenic	13c	16	16	16			19.1					8.13	
Copper	50	270	270	10,000			134						
Lead	63c	400	1,000	3,900		1260	504	2140	3720	624			
Mercury	0.18c	0.81	2.8	5.7	1.72	ND	ND	ND			ND	ND	ND

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Not-detected

BOSG - Below original surface grade

TABLE 9
454 Driggs Avenue Brooklyn, New York
Groundwater Analytical Results
Volatile Organic Compounds
April 2007

Compound	NYSDEC Groundwater Quality Standards	Sample ID		
		MW7	B8-GW	B11-GW
Volatile Organic Compounds by 8260 - ug/L				
1,1,1,2-Tetrachloroethane	5	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND
1,1-Dichloroethylene		ND	ND	ND
1,1-Dichloropropylene		ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	250	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.04	ND	ND	ND
1,2-Dibromoethane		ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	99	ND
1,3-Dichlorobenzene	3	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND
2-Chlorotoluene	5	ND	ND	ND
4-Chlorotoluene	5	ND	ND	ND
Benzene	1	ND	ND	ND
Bromobenzene	5	ND	ND	ND
Bromochloromethane	5	ND	ND	ND
Bromodichloromethane		ND	ND	ND
Bromoform		ND	ND	ND
Bromomethane	5	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND
Chlorobenzene	5	ND	ND	ND
Chloroethane	5	ND	ND	ND
Chloroform	7	ND	ND	ND
Chloromethane		ND	ND	ND
cis-1,2-Dichloroethylene		ND	ND	ND
cis-1,3-Dichloropropylene		ND	ND	ND
Dibromochloromethane		ND	ND	ND
Dibromomethane	5	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND
Ethyl Benzene	5	ND	120	ND
Hexachlorobutadiene		ND	ND	ND
Isopropylbenzene	5	0.72	18	150
MTBE	10	ND	ND	ND
Methylene Chloride	5	ND	ND	ND
Naphthalene		ND	34	ND
n-butylbenzene	5	ND	38	32
n-propylbenzene	5	ND	36	220
o-Xylene	5	ND	ND	ND
p- & m- Xylenes	5	ND	330	ND
p-Isopropyltoluene		ND	ND	ND
sec-Butylbenzene	5	0.76	23	72
Styrene	5	ND	ND	ND
tert-butylbenzene	5	ND	ND	ND
Tetrachloroethylene	5	ND	ND	ND
Toluene	5	ND	ND	ND
trans-1,2-Dichloroethylene		ND	ND	ND
trans-1,3-Dichloropropylene		ND	ND	ND
Trichloroethylene	5	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND

Notes:

ND - Not detected

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 10
454 Driggs Avenue Brooklyn, New York
Groundwater Analytical Results
Semi-Volatile Organic Compounds
PWGC - April 2007

Compound	NYSDEC Groundwater Quality Standards	Sample ID		
		MW7	B8-GW	B11-GW
Semi-Volatile Organic Compounds by 8270 - ug/L				
1,2,4-Trichlorobenzene	5	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND
2-Chlorophenol		ND	ND	ND
2-Methylnaphthalene	NS	ND	6.3	18
2-Nitroaniline	5	ND	ND	ND
3,3-Dichlorobenzidine	5	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND
4-Chloroaniline		ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND
4-Methylphenol		ND	ND	ND
4-Nitroaniline	5	ND	ND	ND
Acenaphthene	5	ND	0.27	2.9
Acenaphthylene		ND	ND	4.3
Anthracene		ND	0.26	5.5
Benzidine	5	ND	ND	ND
Benzo(a)anthracene	0.002	ND	ND	14
Benzo(a)pyrene	ND	ND	ND	19
Benzo(b)fluoranthene	0.002	ND	ND	11
Benzo(g,h,i)perylene	NS	ND	ND	9.6
Benzo(k)fluoranthene	0.002	ND	ND	20
Benzyl alcohol		ND	ND	ND
bis(2-Chloroethyl)ether	1	ND	ND	ND
bis(2-chloroisopropyl)ether		ND	ND	ND
bis(2-Ethylhexyl)phthalate	5	ND	ND	ND
Butylbenzylphthalate		ND	ND	ND
Chrysene	0.002	ND	ND	9.2
Dibenzo(a,h)anthracene	50	ND	ND	3.5
Dibenzofuran		ND	ND	ND
Diethylphthalate		ND	ND	ND
Dimethylphthalate		ND	ND	ND
Di-n-butylphthalate		ND	ND	ND
Di-n-octyl phthalate		ND	ND	ND
Fluoranthene	50	ND	1	23
Fluorene	50	ND	0.39	4
Hexachlorobenzene	0.04	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND
Hexachloroethane	5	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	ND	ND	11
Isophorone		ND	ND	ND
Naphthalene	10	ND	18	3.1
Nitrobenzene	0.4	ND	ND	ND
N-Nitroso-di-n-propylamine		ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND
Phenanthrene	50	ND	1.1	14
Phenol	5	ND	ND	ND
Pyrene	50	ND	0.64	19

Notes:

ND - Not detected

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 11
 454 Driggs Avenue Brooklyn, New York
 Groundwater Analytical Results
 Pesticides/PCBs
 PWGC - April 2007

COMPOUND	NYSDEC GROUNDWATER QUALITY STANDARDS	MW7	B8-GW	B11-GW
Pesticides and PCBs	(µg/L)	(µg/L)	(µg/L)	(µg/L)
4,4-DDD	0.3	ND	ND	ND
4,4-DDE	0.2	ND	ND	ND
4,4-DDT	0.2	ND	ND	ND
Aldrin	ND	ND	ND	ND
alpha-BHC	0.01	ND	ND	ND
beta-BHC	0.04	ND	ND	ND
Chlordane	0.05	ND	ND	ND
delta-BHC	0.04	ND	ND	ND
Dieldrin	0.004	ND	ND	ND
Endosulfan I		ND	ND	ND
Endosulfan II		ND	ND	ND
Endosulfan Sulfate		ND	ND	ND
Endrin	ND	ND	ND	ND
Endrin aldehyde	5	ND	ND	ND
Endrin Ketone		ND	ND	ND
gamma-BHC	0.05	ND	ND	ND
Heptachlor	0.04	ND	ND	ND
Heptachlor epoxide	0.03	ND	ND	ND
Methoxychlor	35	ND	ND	ND
Total PCBs		ND	ND	ND
Aroclor-1016	0.09	ND	ND	ND
Aroclor-1221	0.09	ND	ND	ND
Aroclor-1232	0.09	ND	ND	ND
Aroclor-1242	0.09	ND	ND	ND
Aroclor-1248	0.09	ND	ND	ND
Aroclor-1254	0.09	ND	ND	ND
Aroclor-1260	0.09	ND	ND	ND

Notes:

ND - Non-detect

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 12
 454 Driggs Avenue Brooklyn, New York
 Groundwater Analytical Results
 TAL Filtered Metals
 PWGC - April 2007

COMPOUND	NYSDEC GROUNDWATER QUALITY STANDARDS	MW7 (DISSOLVED)	B8-GW (DISSOLVED)	B11-GW (DISSOLVED)
Priority Pollutant Metals	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Aluminum	NS	ND	ND	ND
Antimony	3	ND	ND	ND
Arsenic	25	ND	75.3	1.4
Barium	100	0.059	7.1	10.7
Beryllium	3	ND	ND	ND
Cadmium	5	ND	ND	ND
Calcium	NS	84	11000	9500
Chromium	50	ND	ND	ND
Cobalt	NS	ND	ND	ND
Copper	200	ND	ND	ND
Iron	500	0.23	27	20.0
Lead	25	ND	ND	ND
Magnesium	3500	32	950	2300
Manganese	300	0.23	14.7	39.1
Nickel	100	ND	ND	ND
Potassium	NS	36	1100	3200.0
Selenium	10	ND	ND	ND
Silver	50	ND	ND	ND
Sodium	2000	130	2100	16000
Thallium	0.5	ND	ND	ND
Vanadium	NS	ND	ND	ND
Zinc	2000	ND	ND	ND
Mercury	0.7	ND	ND	ND

Notes:

ND - ND

NS - No Standard

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 13
 210 N. 12th Street, Brooklyn, New York
 Groundwater Analytical Results 6-10-11
 Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	Sample ID							
		6/10/11 B10	7/13/11 B10	6/10/11 B12	7/13/11 B12	6/10/11 B13	7/13/11 B13	6/10/11 B15	7/13/11 B15
Volatile Organic Compounds by 8260 - ug/L									
1,2,4-Trimethylbenzene	5	ND	ND	1.2	ND	ND	ND	22.7	9.3
1,3,5-Trimethylbenzene	5	ND							
Benzene	1	ND							
Ethyl Benzene	5	1	ND	ND	ND	ND	ND	1.2	ND
Isopropylbenzene	5	57.9	3.0 J	ND	ND	ND	ND	11.3	5.7
MTBE	10	ND							
Naphthalene	10*	ND	1.7 J,B	ND	ND	ND	ND	ND	ND
n-butylbenzene	5	7.4	1.1 J	ND	ND	ND	ND	3.1	ND
n-propylbenzene	5	79.0	3.8 J	1.0	ND	ND	ND	16.3	6.1
o-Xylene	5	ND							
p- & m- Xylenes	5	ND							
p-Isopropyltoluene	5	ND							
sec-Butylbenzene	5	50.2	5.4	2.3	ND	ND	ND	11.8	3.7
tert-butylbenzene	5	7.0	2.0 J	ND	ND	ND	ND	2.6	1.1
Toluene	5	ND	ND	ND	ND	ND	ND	1.4	ND
Total VOCs		203	17	5	0	0	0	70	26

Notes:

ND - Not detected

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

*Guidance Value Only - No Standard for this compound.

TABLE 14
 210 N. 12th Street, Brooklyn, New York
 Groundwater Analytical Results 6-10-11
 Semi-Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	Sample ID			
		B10	B12	B13	B15
Semi-Volatile Organic Compounds by 8270 - ug/L					
Acenaphthene	5	ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND
Anthracene		ND	ND	ND	ND
Benzo(a)anthracene		ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND
Benzo(b)fluoranthene		ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND
Chrysene		ND	ND	ND	ND
Dibenzo(a,h)anthracene		ND	ND	ND	ND
Fluoranthene	50	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene		ND	ND	ND	ND
Naphthalene	10*	ND	ND	ND	ND
Phenanthrene	50	ND	ND	ND	ND
Pyrene		ND	ND	ND	ND

Notes:

ND - Not detected

NS - Not sampled

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

*Guidance Value Only - No Standard for this compound.

Table 15
 210 N. 12th Street, Brooklyn, New York
 Groundwater Analytical Results
 Metals
 September 2011

METALS	NYSDEC GROUNDWATER QUALITY STANDARDS (mg/L)	Dissolved		Total	
		GW8 (µg/L)	GW16 (µg/L)	GW8 (µg/L)	GW16 (µg/L)
Arsenic	25	40.5	ND	41.9	19.2
Copper	200	ND	ND	ND	27
Lead	25	15.5	13.1	68	511
Mercury	0.7	ND	0.6	0.3	1.3

Notes:

ND - ND

NS - No Standard

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard for Drinking water source (GA)

Standards apply to dissolve form only

TABLE 16
210 N. 12th Street, Brooklyn, New York
Soil Gas - Volatile Organic Compounds
September 2011

COMPOUNDS ANALYZED BY CHEMTECH	EPA Shallow Soil Gas Concentrations	NYSDOH Soil Outdoor Background Levels	NYSDOH Air Guidance Value	SG-1	SG-2	SG-5
	($\mu\text{g}/\text{m}^3$) ^(b)	($\mu\text{g}/\text{m}^3$) ^(a)	($\mu\text{g}/\text{m}^3$) ^(c)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
1,1,1-Trichloroethane	22,000	<2.0 - 2.8	100	ND	ND	ND
1,1,1,2,2-Tetrachloroethane	0.42	<1.5		ND	ND	ND
1,1,1,2-Trichloroethane	1.5	<1.0		1.4	ND	ND
1,1-Dichloroethane	5,000	<1.0		ND	ND	ND
1,1-Dichloroethene	2,000	<1.0		ND	ND	ND
1,2,4-Trichlorobenzene	20,000	NA		ND	ND	ND
1,2,4-Trimethylbenzene	60	<1.0		26	5.3	1.9
1,2-Dichlorobenzene	2,000	<2.0		ND	ND	ND
1,2-Dichloroethane	0.94	<1.0		1.5	ND	ND
1,2-Dichloropropane	40	<1.0		ND	ND	ND
1,3,5-Trimethylbenzene	60	<1.0		16	ND	ND
1,3-Butadiene	0.087	NA		ND	ND	ND
1,3-Dichlorobenzene	1,100	<2.0		ND	ND	ND
1,4-Dichlorobenzene	8,000	NA		ND	ND	ND
1,4-Dioxane				ND	ND	ND
2,2,4-Trimethylpentane	NA	NA		1.3	ND	1.7
Acetone	3,500	NA		23	96	74
Benzene	3.1	<1.6 - 4.7		3	ND	0.89
Benzyl Chloride	0.5	NA		ND	ND	ND
Bromodichloromethane	1.4	<5.0		ND	ND	ND
Bromoform	22	<1.0		ND	ND	ND
Bromomethane	NA	<1.0		ND	ND	ND
Carbon Disulfide	7,000	NA		ND	ND	ND
Carbon Tetrachloride	1.6	<3.1	50	0.90	ND	1.0
Chlorobenzene	600	<2.0		1.1	ND	ND
Chloroethane	100,000	NA		ND	ND	ND
Chloroform	1.1	<2.4		24	ND	ND
Chloromethane	NA	<1.0 - 1.4		ND	ND	ND
cis-1,2-Dichloroethene	NA	<1.0		ND	ND	ND
cis-1,3-Dichloropropene	NA	NA		ND	ND	ND
Cyclohexane	NA	NA		ND	ND	1.2
Dibromochloromethane	NA	<5.0		2.6	ND	ND
Ethyl Acetate	32,000	NA		ND	ND	ND
Ethylbenzene	22	<4.3		9.5	ND	ND
Freon 11				2.6	4.1	5.6
Heptane	NA	NA		2.0	2.4	0.95
Hexachloro-1,3-butadiene	NA	NA		ND	ND	ND
Hexane	NA	<1.5		6.6	2.2	73
Isopropyl Alcohol	NA	NA		42	3.1	2.9
Xylene (m&p)	7,000	<4.3		32	6	1.8
MTBE	30,000	NA		ND	ND	ND
Methylene Chloride	NA	<3.4	60	3.5	36	290
Xylene (o)	7,000	<4.3		15	ND	ND
p-ethyltoluene				22	4	1.7
Propylene	NA	NA		ND	ND	ND
Styrene	10,000	<1.0		ND	ND	ND
Tetrachloroethylene	8.1		100	17	200	ND
Tetrahydrofuran	NA	NA		11	ND	ND
Toluene	4,000	1.0 - 6.1		30	6.9	2.5
trans-1,2-Dichloroethene	NA	NA		6.60	ND	ND
trans-1,3-Dichloropropene	6	NA		ND	ND	ND
Trichloroethylene	0.22	<1.7	50	0.67	5.6	ND
Vinyl Acetate	2,000	NA		ND	ND	ND
Vinyl Bromide				ND	ND	ND
Vinyl Chloride	3	<1.0		ND	ND	ND
Total PVOCs*						
Total CVOCs**						
Total VOCs***						

Notes:

NA No guidance value or standard available

(a) NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New

(b) USEPA Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance), Table 2c, Risk=1 x10⁻⁶

(c) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006. New York State Department of Health.

* Petroleum Volatile Organic Compounds

** Chlorinated Volatile Organic Compounds

*** Volatile Organic Compounds (excluding acetone)

Yellow Shaded - Value detected above NYSDOH Air Guidance Value vapor/Indoor Air Matrix 1 or 2 which would require at a minimum, monitoring.

TABLE 4
 454 Driggs Avenue, Brooklyn, New York
 Groundwater Analytical Results 6-10-11
 Semi-Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	Sample ID			
		B10	B12	B13	B15
Semi-Volatile Organic Compounds by 8270 - ug/L					
Acenaphthene	5	ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND
Anthracene		ND	ND	ND	ND
Benzo(a)anthracene		ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND
Benzo(b)fluoranthene		ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND
Chrysene		ND	ND	ND	ND
Dibenzo(a,h)anthracene		ND	ND	ND	ND
Fluoranthene	50	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene		ND	ND	ND	ND
Naphthalene	10*	ND	ND	ND	ND
Phenanthrene	50	ND	ND	ND	ND
Pyrene		ND	ND	ND	ND

Notes:

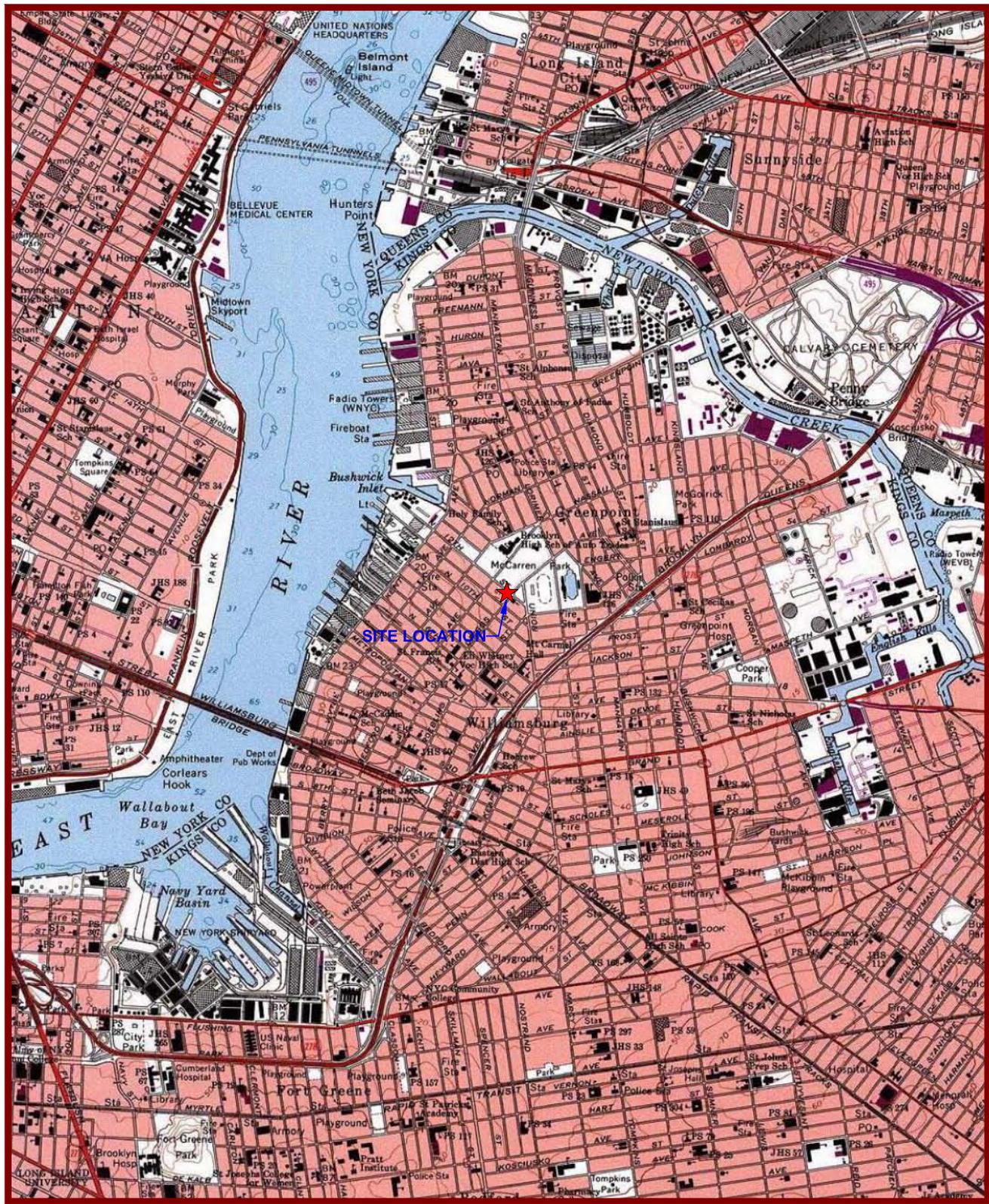
ND - Not detected

NS - Not sampled

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

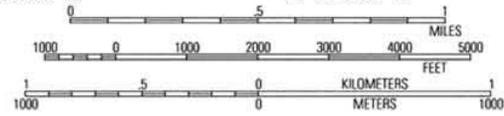
*Guidance Value Only - No Standard for this compound.

FIGURES



40°45.000' N
40°44.000' N
40°43.000' N
40°42.000' N

73°59.000' W 73°58.000' W 73°57.000' W WGS84 73°56.000' W



MN ↑ TN
13°
06/04/11

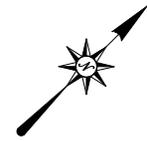
USGS Brooklyn Quadrangle 1995, Contour Interval = 10 feet

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Phone 631.504.6000
Fax 631.924.2870

210 N. 12th Street, BROOKLYN, NY
BLOCK 2291 LOT 17

FIGURE 1 SITE LOCATION MAP

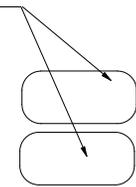


Adjacent 4 Story Building

Lot 51

Lot 17

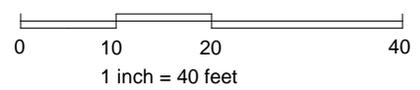
Area of Concern
Former 2,000 gallon USTs



N. 12th STREET

Adjacent 4 Story Building

DRIGGS AVENUE

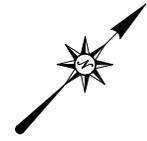
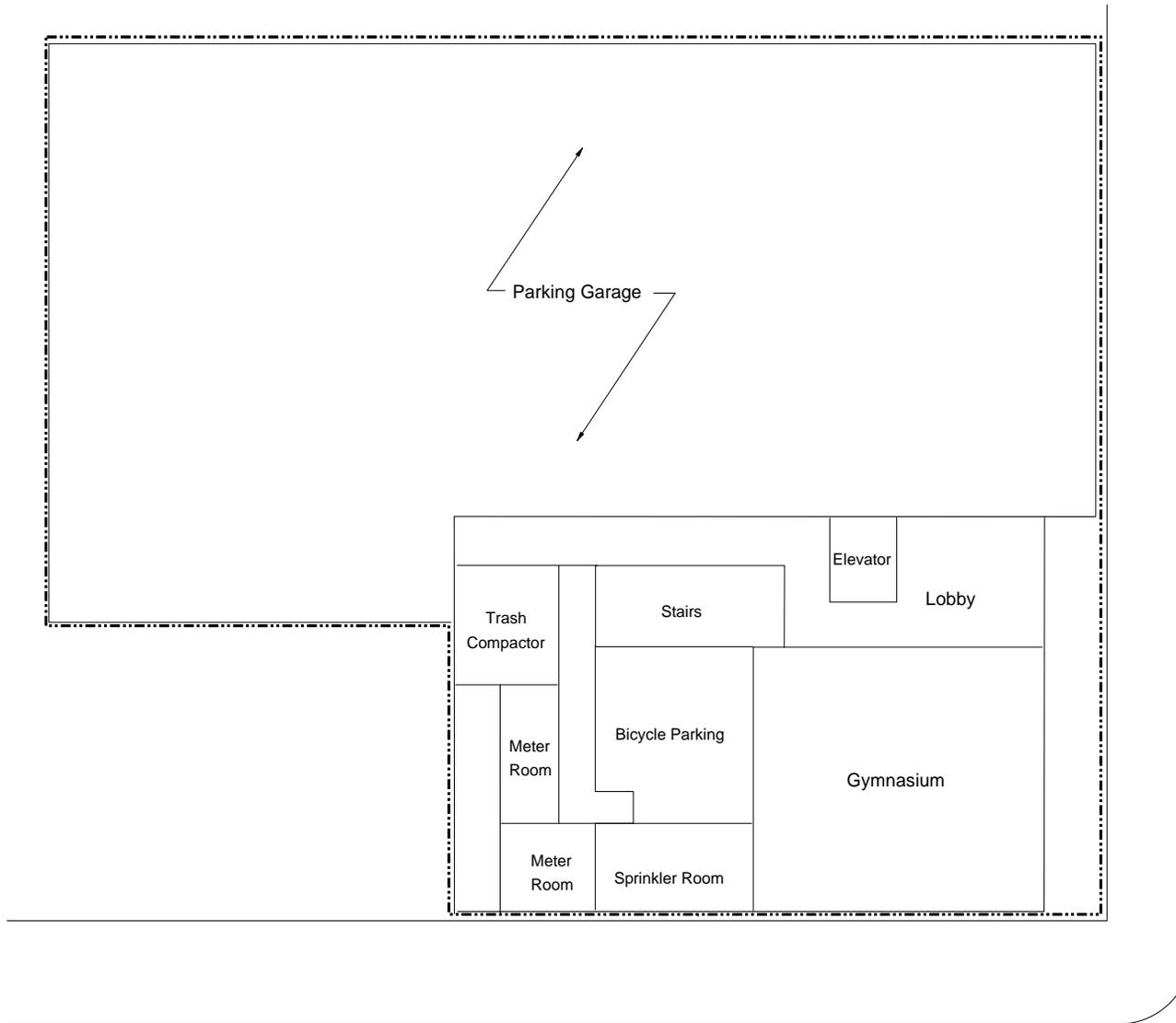


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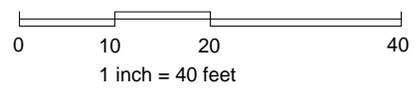
210 N. 12th Street, **BROOKLYN, NY**
BLOCK 2291 LOT 17

FIGURE 2 SITE PLAN



N. 12th STREET

DRIGGS AVENUE

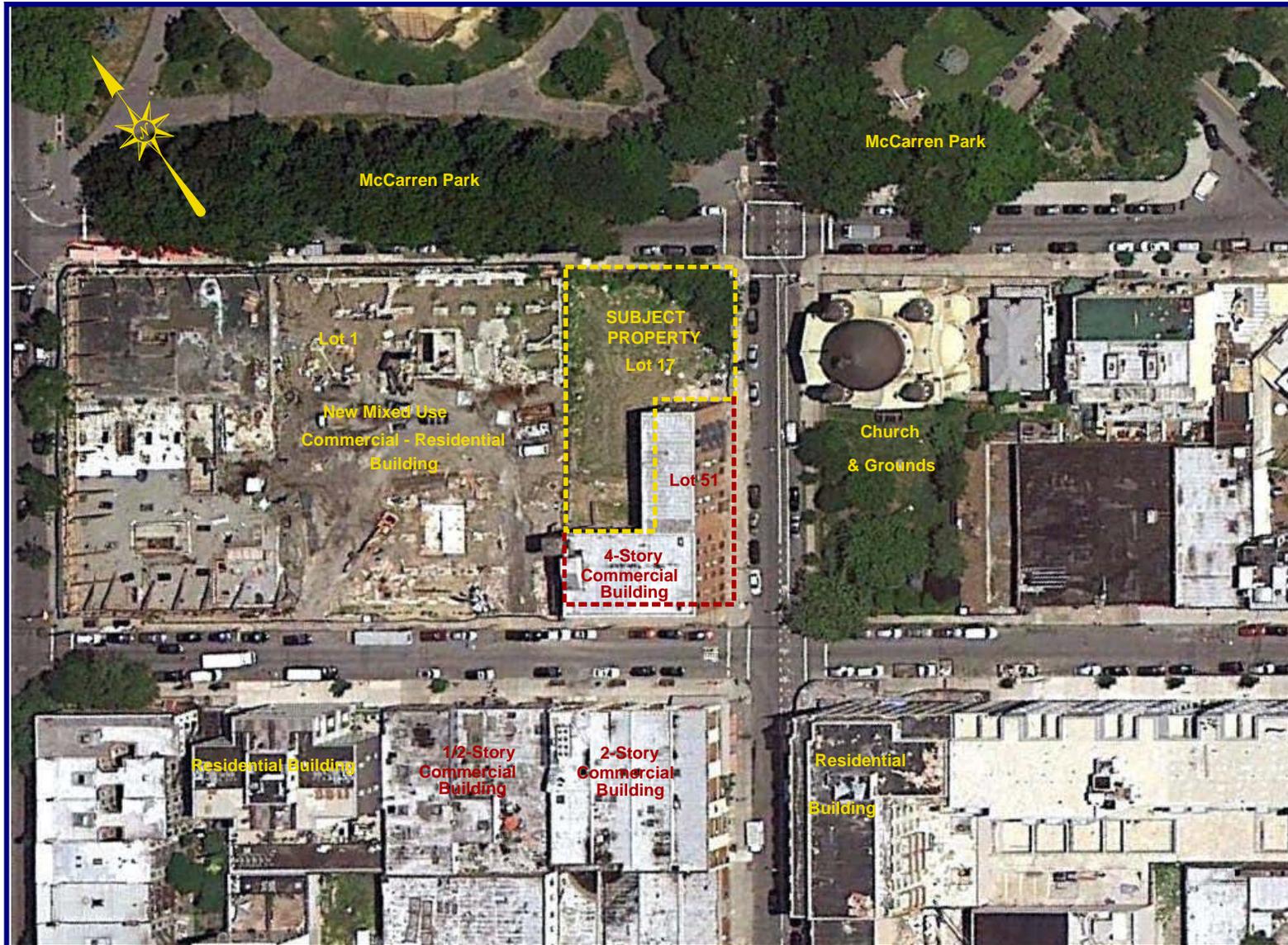


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FIGURE 3 REDEVELOPMENT PLAN



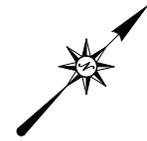
EBC

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454 DRIGGS AVENUE, BROOKLYN, NY
SURROUNDING LAND USE

FIGURE 4

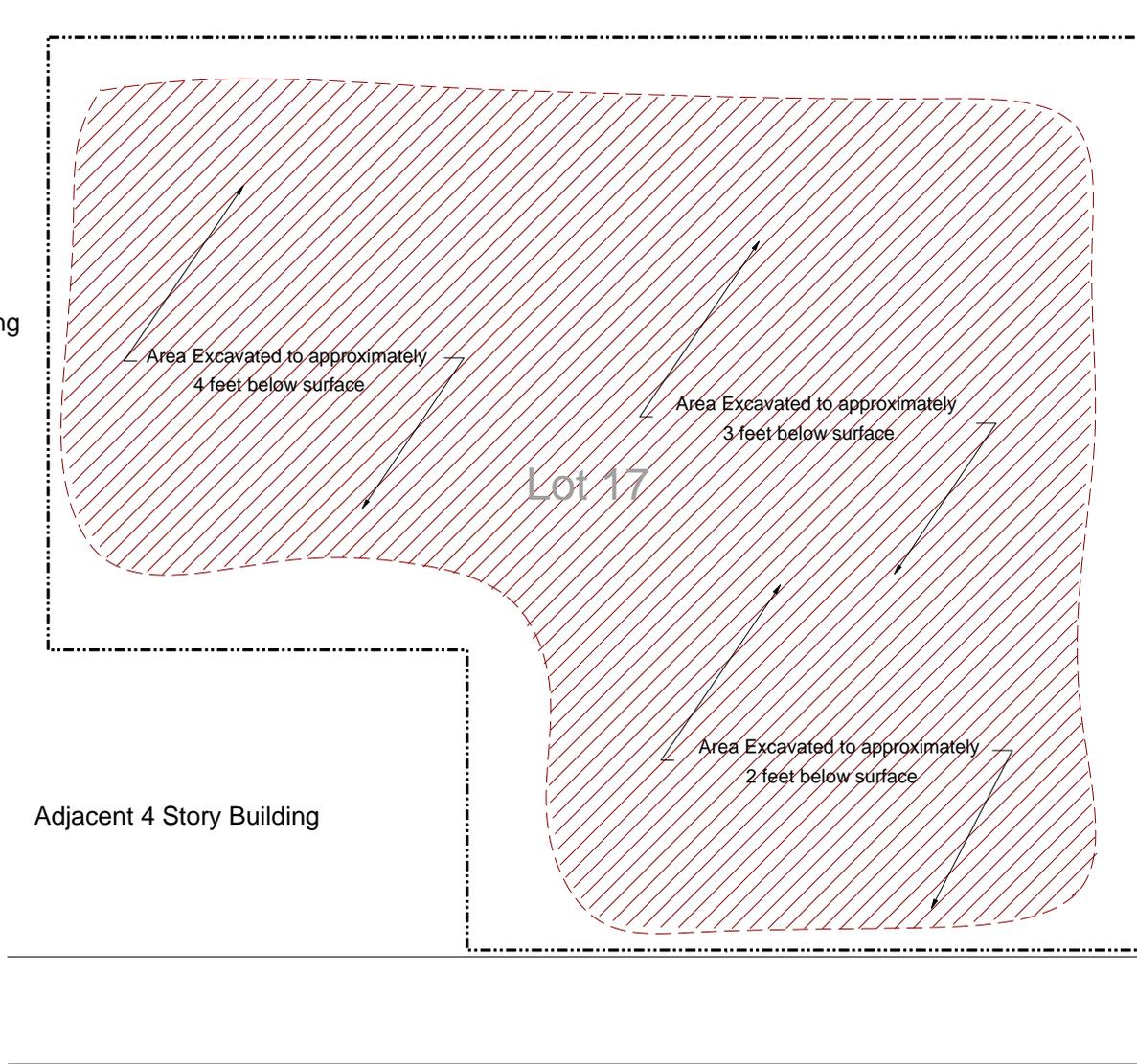


N. 12th STREET

Adjacent 4 Story Building

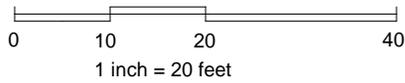
Lot 51

Adjacent 4 Story Building



Lot 17

DRIGGS AVENUE

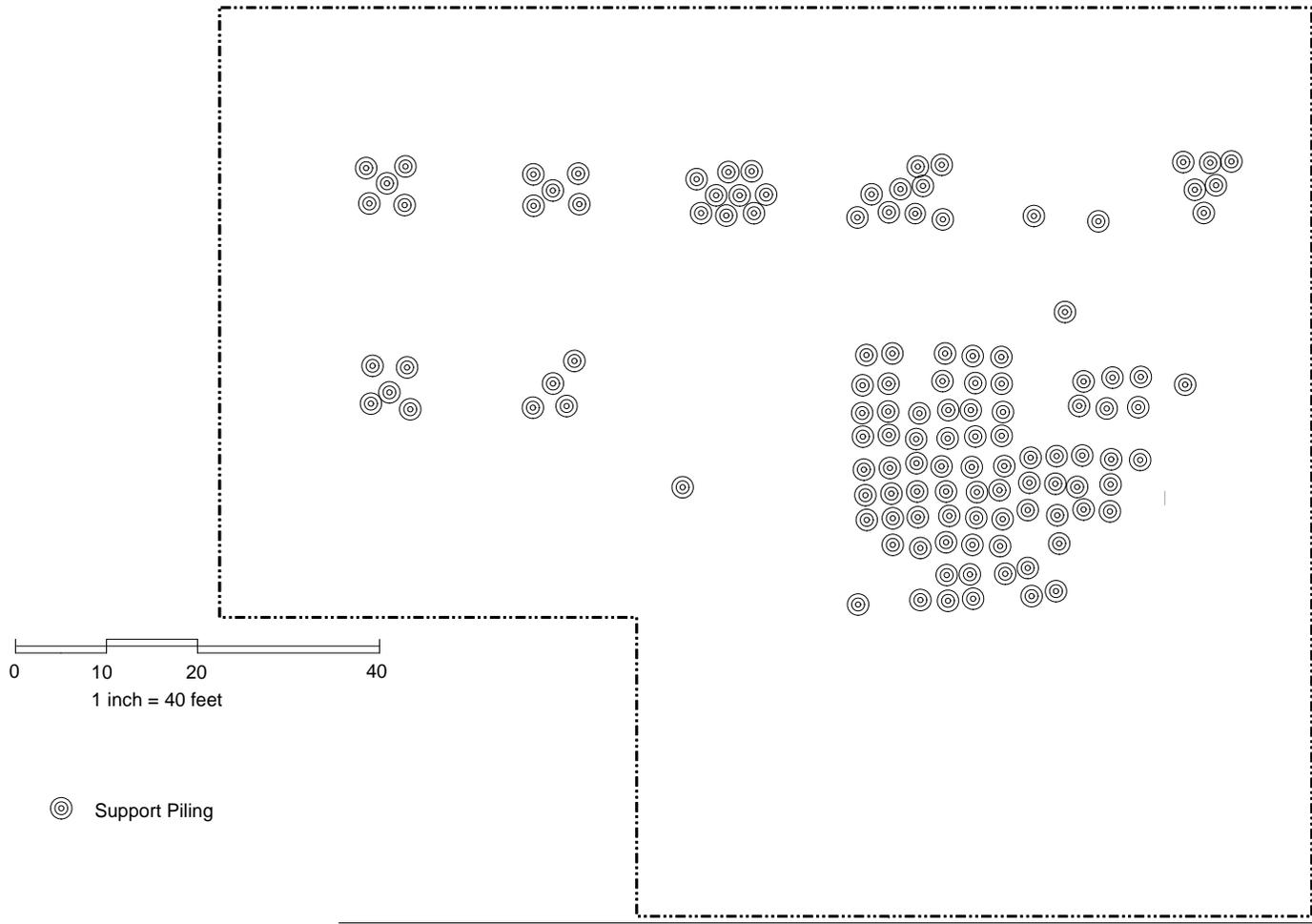


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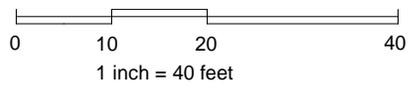
210 N. 12TH STREET, BROOKLYN, NY
BLOCK 2291 LOT 17

FIGURE 5 FORMER EXCAVATED AREA



N. 12th STREET

DRIGGS AVENUE



⊙ Support Piling

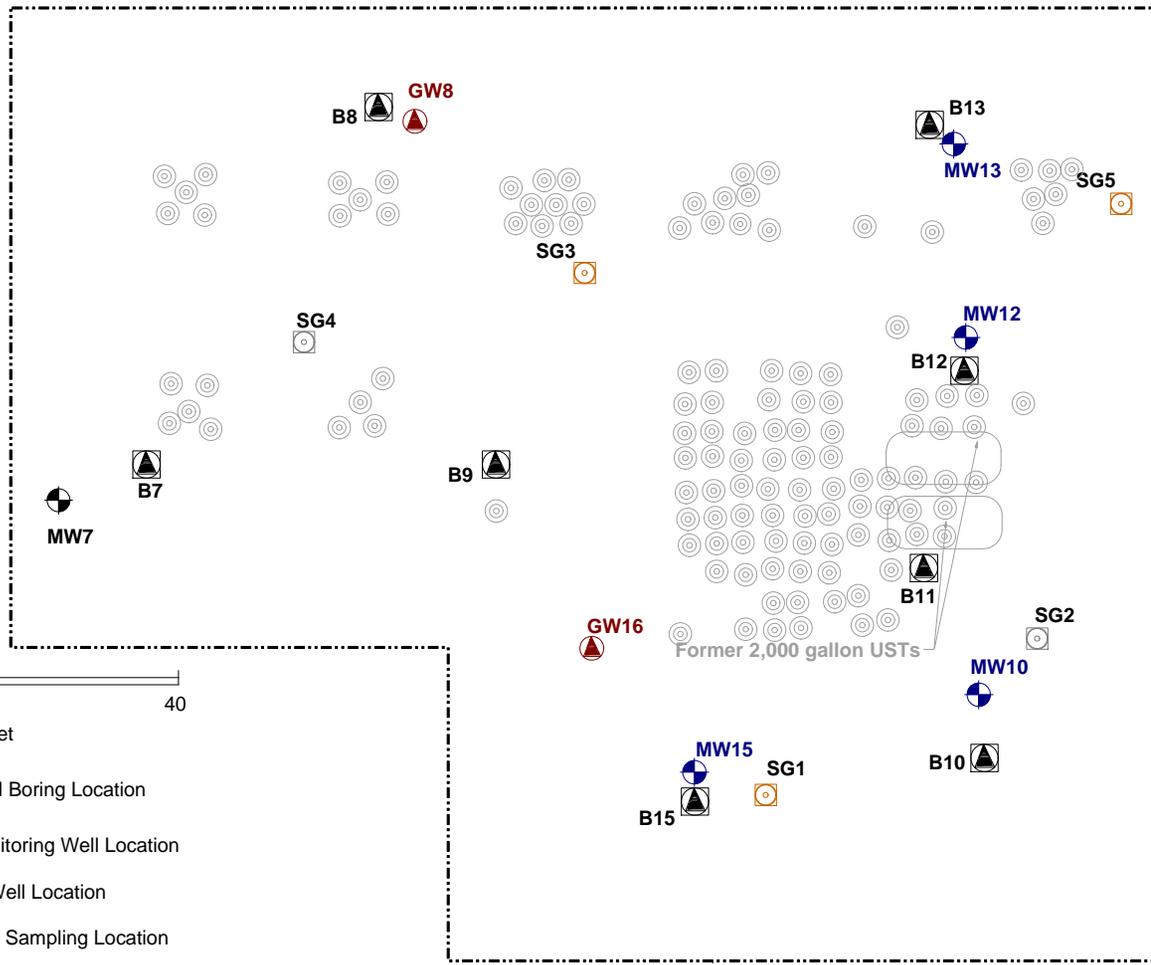


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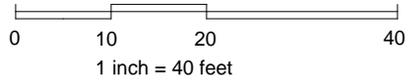
Phone 631.504.6000
Fax 631.924.2780

210 N. 12TH STREET, BROOKLYN, NY
BLOCK 2291 LOT 17

FIGURE 6 LOCATION OF EXISTING PILINGS



N. 12th STREET



-  2007 Phase II Soil Boring Location
-  2007 Phase II Monitoring Well Location
-  2011 Monitoring Well Location
-  2011 Groundwater Sampling Location
-  Support Piling
-  Soil Gas Sampling Location

Samples SG2 and SG4 not collected

DRIGGS AVENUE

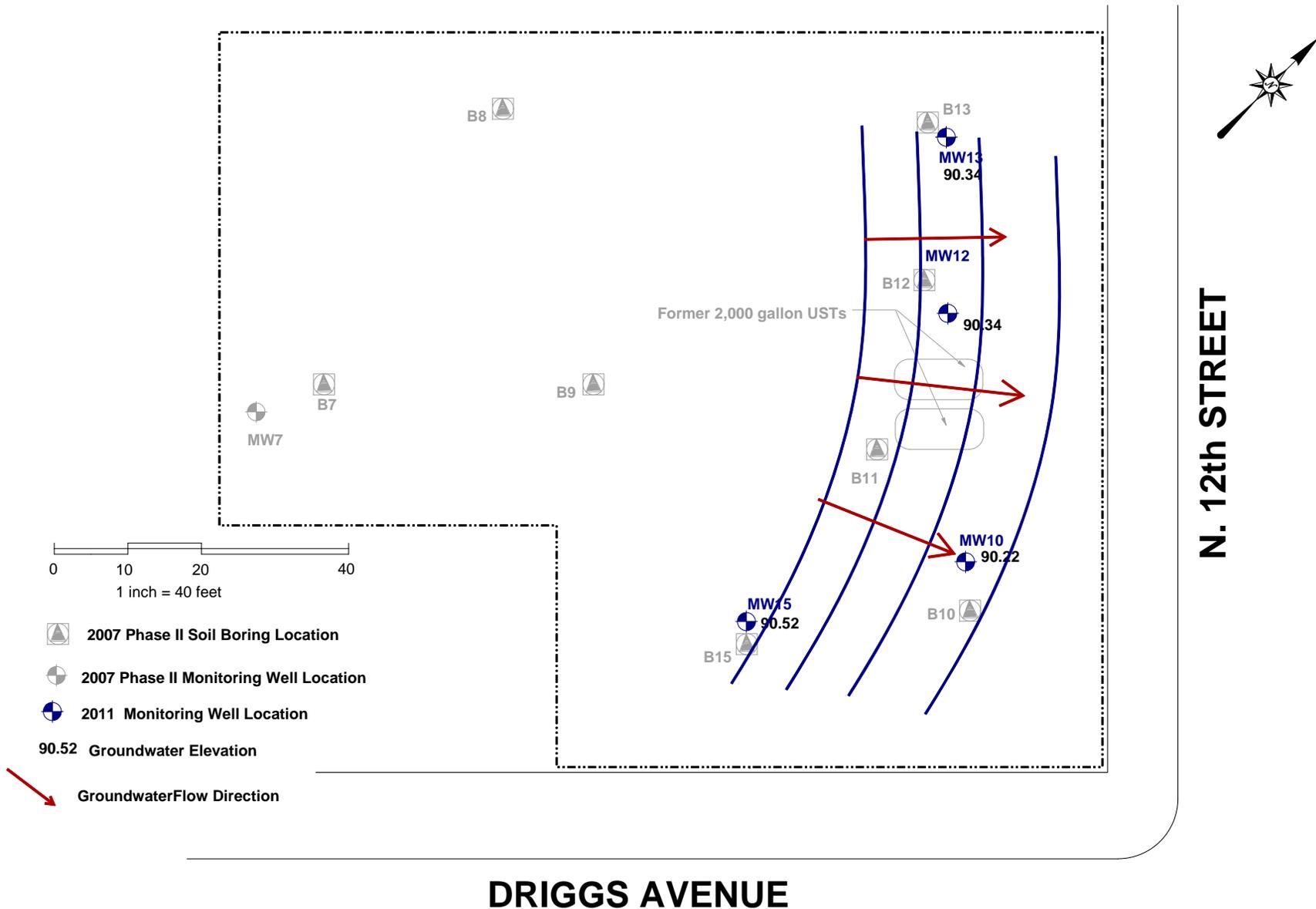


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210 N. 12TH STREET, BROOKLYN, NY
BLOCK 2291 LOT 17

FIGURE 7 2007 & 2011
SAMPLING LOCATIONS



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FIGURE 7 GROUNDWATER ELEVATION

APPENDIX A
DRILL LOGS

Geologic Boring Log Details



ENVIRONMENTAL BUSINESS CONSULTANTS

B12 Boring Log

Location: Performed east of B13 at previous B12 location.		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: ADR 1101	Address:	Date	DTW
	454 Driggs Avenue, Brooklyn, NY	Groundwater depth	
Drilling Company: Eastern Environmental Solutions, Inc.		Method: Dual Tube Geoprobe 6610	
Date Started: 6/10/2011		Date Completed: 6/10/2011	
Completion Depth: 20 feet		Field Technician: C. Sosik	
		8 ft	Well Specifications
			1" pvc, 10 foot 0.010 slot 5 foot riser

B3 (NTS)	DEPTH (ft below grade)	SAMPLES			SOIL DESCRIPTION
		Recovery (in.)	Blow per 6 in.	PID (ppm)	
	0				Fill materials (brick, concrete, etc.) in brown clay matrix no odor
	to	36		0.0	
	5				Dark grey to black silty clay with some ash. petro odor
	to	24		220.0	*Sample retained at 5-7 feet and at 8-10 feet
	10				Brown silty clay with bog matt top 1 ft followed by grey to light grey clay No odor.
	to	30		5.1	
	15				Grey to light grey clay. No odor.
	to	30		0.0	
	20				

Geologic Boring Log Details



ENVIRONMENTAL BUSINESS CONSULTANTS

B13 Boring Log

Location: Performed northwest corner at previous B13 location.		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: ADR 1101	Address:	Date	DTW
	454 Driggs Avenue, Brooklyn, NY	Groundwater depth	
Drilling Company: Eastern Environmental Solutions, Inc.		Method: Dual Tube Geoprobe 6610	
Date Started: 6/10/2011		Date Completed: 6/10/2011	
Completion Depth: 20 feet		Field Technician: C. Sosik	
		8 ft	Well Specifications: 1" pvc, 10 foot 0.010 slot 5 foot riser

B3 (NTS)	DEPTH (ft below grade)	SAMPLES			SOIL DESCRIPTION
		Recovery (in.)	Blow per 6 in.	PID (ppm)	
	0				Fill materials (brick, concrete, etc.) in brown clay matrix no odor
	to	36		0.0	
	5				Fill material top 6" w/bricks in brwn clay matrix. Brwn sandy clay middle 6" followed by grey-black silt. no odor *Sample retained at 5-7 feet and at 8-10 feet
	to	24		0.0	
	10				Brown silty clay top 6" followed by 2 ft bog matt and grey to light grey clay intermixed. No odor.
to	30		0.0		
15					
to	30		0.0		Grey - black bog material top 6" followed by grey to light grey clay. No odor.
20					

Geologic Boring Log Details



ENVIRONMENTAL BUSINESS CONSULTANTS

B15 Boring Log

Location: Performed north of building at previous B15 location.		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: ADR 1101	Address:	Date	DTW
	454 Driggs Avenue, Brooklyn, NY	Groundwater depth	
Drilling Company: Eastern Environmental Solutions, Inc.	Method: Dual Tube Geoprobe 6610	Well Specifications	
Date Started: 6/10/2011	Date Completed: 6/10/2011	8 ft	1" pvc, 10 foot 0.010 slot 5 foot riser
Completion Depth: 20 feet	Field Technician C. Sosik		

B3 (NTS)	DEPTH (ft below grade)	SAMPLES			SOIL DESCRIPTION
		Recovery (in.)	Blow per 6 in.	PID (ppm)	
	0				Fill materials in brown clay matrix
	to	12		0.0	
	5				Fill material in clay matrix, clay wet at 8'. Faint petro odor. *Sample retained at 5-7 feet and at 8-10 feet
	to	36		20.0	
	10				clay, wet, no odor
	to	30		0.0	
	15				No return
	to	0			
	20				

ATTACHMENT B
GROUNDWATER SAMPLING LOGS

APPENDIX C
SOIL GAS SAMPLING LOGS

Field Chain-of-Custody Record - AIR

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

York Project No. 11 I 0423

YOUR Information Company: <u>ERC</u> Address: <u>1908 Middle</u> <u>Country Rd. Ridge, NY</u> Phone No: <u>(631) 504-6000</u> Contact Person: <u>Charlie Sorin</u> E-Mail Address: _____		Report To: Company: _____ Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Invoice To: Company: _____ Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		YOUR Project ID <u>454 Driggs Avenue</u> <u>Brooklyn, NY</u> Purchase Order No. Samples from: CT ___ NY ___ NJ ___		Turn-Around Time RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard(5-7 Days) <input checked="" type="checkbox"/>		Report Type/Deliverables Summary Report <input checked="" type="checkbox"/> Summary w/ QA Summary _____ CT RCP Package _____ NY ASP A Package _____ NY ASP B/CLP Pkg _____ NJDEP Reduced _____ Electronic Deliverables: EDD (Specify Type) _____ Standard Excel _____ Regulatory Comparison Excel _____	
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	-----------------------------------------------------------------------------------------------------------------------	--	------------------------------------------------------------------------------------------------------------------------	--	----------------------------------------------------------------------------------------------------------------------------------------------	--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

Print Clearly and Legibly. All Information must be legible. Samples will NOT be logged in and the clock will not begin until any questions by the analyst are resolved.

Samples Collected/Authorized By (Signature) _____
 Name (printed) Dominick Mascia

Air Matrix Codes AI- INDOOR Ambient Air AO- OUTDOOR Amb. Air AE- Vapor Extraction Well/ Process Gas/Effluent AS- SOIL Vapor/Sub-Slab		TO15 Volatiles and Other Gas Analyses EPA TO-15 List Tentatively Identified Compounds Air VPH Helium Methane OTHER	
------------------------------------------------------------------------------------------------------------------------------------------------------------	--	---------------------------------------------------------------------------------------------------------------------------------------------	--

Sample Identification	Date Sampled	AIR Matrix	Choose Analyser Needed from the Menu Above and Enter Below		Sampling Media
			Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	
SG 1	9-12-2011		-30	-7	6 Liter Summa canister
SG 2			-30	-18	Tedlar Bag
SG 3			-30	-4	6 Liter Summa canister
SG 5			-30	-8	Tedlar Bag
					6 Liter Summa canister
					Tedlar Bag
					6 Liter Summa canister
					Tedlar Bag
					6 Liter Summa canister
					Tedlar Bag
					6 Liter Summa canister
					Tedlar Bag
					6 Liter Summa canister
					Tedlar Bag

Comments _____

Samples Relinquished By [Signature] Date/Time 9-12-2011

Samples Relinquished By _____ Date/Time _____

Samples Received By [Signature] Date/Time 9/15/11 1305

Samples Received in LAB by [Signature] Date/Time 9/13/11 1620

ATTACHMENT D
LABORATORY REPORTS

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Environmental Business Consultants

1808 Middle Country Rd.

Ridge NY, 11961

Attention: Charles Sosik

Report Date: 07/19/2011

Client Project ID: 454 Driggs Ave. Williamsburg, NY

York Project (SDG) No.: 11G0469

CT License No. PH-0723

New Jersey License No. CT-005



New York License No. 10854

PA License No. 68-04440

Environmental Business Consultants

1808 Middle Country Rd.
Ridge NY, 11961
Attention: Charles Sosik

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 14, 2011 and listed below. The project was identified as your project: **454 Driggs Ave. Williamsburg, NY.**

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

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

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

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

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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
11G0469-01	MW-10	Water	07/13/2011	07/14/2011
11G0469-02	MW-12	Water	07/13/2011	07/14/2011
11G0469-03	MW-13	Water	07/13/2011	07/14/2011
11G0469-04	MW-15	Water	07/13/2011	07/14/2011

General Notes for York Project (SDG) No.: 11G0469

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

Approved By:



Date: 07/19/2011

Robert Q. Bradley
Executive Vice President / Laboratory Director

YORK

Sample Information

Client Sample ID: MW-10

York Sample ID: 11G0469-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
11G0469	454 Driggs Ave. Williamsburg, NY	Water	July 13, 2011 3:00 pm	07/14/2011

Volatile Organics, STARS List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.53	5.0	1	EPA SW846-8260B	07/18/2011 12:49	07/18/2011 12:49	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.37	5.0	1	EPA SW846-8260B	07/18/2011 12:49	07/18/2011 12:49	SS
71-43-2	Benzene	ND		ug/L	0.48	5.0	1	EPA SW846-8260B	07/18/2011 12:49	07/18/2011 12:49	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.35	5.0	1	EPA SW846-8260B	07/18/2011 12:49	07/18/2011 12:49	SS
98-82-8	Isopropylbenzene	3.0	J	ug/L	0.39	5.0	1	EPA SW846-8260B	07/18/2011 12:49	07/18/2011 12:49	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.38	5.0	1	EPA SW846-8260B	07/18/2011 12:49	07/18/2011 12:49	SS
91-20-3	Naphthalene	1.7	J, B	ug/L	0.50	10	1	EPA SW846-8260B	07/18/2011 12:49	07/18/2011 12:49	SS
104-51-8	n-Butylbenzene	1.1	J	ug/L	0.32	5.0	1	EPA SW846-8260B	07/18/2011 12:49	07/18/2011 12:49	SS
103-65-1	n-Propylbenzene	3.8	J	ug/L	0.58	5.0	1	EPA SW846-8260B	07/18/2011 12:49	07/18/2011 12:49	SS
95-47-6	o-Xylene	ND		ug/L	0.50	5.0	1	EPA SW846-8260B	07/18/2011 12:49	07/18/2011 12:49	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.55	10	1	EPA SW846-8260B	07/18/2011 12:49	07/18/2011 12:49	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.25	5.0	1	EPA SW846-8260B	07/18/2011 12:49	07/18/2011 12:49	SS
135-98-8	sec-Butylbenzene	5.4		ug/L	0.52	5.0	1	EPA SW846-8260B	07/18/2011 12:49	07/18/2011 12:49	SS
98-06-6	tert-Butylbenzene	2.0	J	ug/L	0.46	5.0	1	EPA SW846-8260B	07/18/2011 12:49	07/18/2011 12:49	SS
108-88-3	Toluene	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	07/18/2011 12:49	07/18/2011 12:49	SS
1330-20-7	Xylenes, Total	ND		ug/L	1.0	15	1	EPA SW846-8260B	07/18/2011 12:49	07/18/2011 12:49	SS

Sample Information

Client Sample ID: MW-12

York Sample ID: 11G0469-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
11G0469	454 Driggs Ave. Williamsburg, NY	Water	July 13, 2011 3:00 pm	07/14/2011

Volatile Organics, STARS List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.53	5.0	1	EPA SW846-8260B	07/18/2011 13:25	07/18/2011 13:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.37	5.0	1	EPA SW846-8260B	07/18/2011 13:25	07/18/2011 13:25	SS
71-43-2	Benzene	ND		ug/L	0.48	5.0	1	EPA SW846-8260B	07/18/2011 13:25	07/18/2011 13:25	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.35	5.0	1	EPA SW846-8260B	07/18/2011 13:25	07/18/2011 13:25	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.39	5.0	1	EPA SW846-8260B	07/18/2011 13:25	07/18/2011 13:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.38	5.0	1	EPA SW846-8260B	07/18/2011 13:25	07/18/2011 13:25	SS
91-20-3	Naphthalene	ND		ug/L	0.50	10	1	EPA SW846-8260B	07/18/2011 13:25	07/18/2011 13:25	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.32	5.0	1	EPA SW846-8260B	07/18/2011 13:25	07/18/2011 13:25	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	07/18/2011 13:25	07/18/2011 13:25	SS
95-47-6	o-Xylene	ND		ug/L	0.50	5.0	1	EPA SW846-8260B	07/18/2011 13:25	07/18/2011 13:25	SS

Sample Information

Client Sample ID: MW-12

York Sample ID: 11G0469-02

<u>York Project (SDG) No.</u> 11G0469	<u>Client Project ID</u> 454 Driggs Ave. Williamsburg, NY	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 13, 2011 3:00 pm	<u>Date Received</u> 07/14/2011
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Volatile Organics, STARS List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.55	10	1	EPA SW846-8260B	07/18/2011 13:25	07/18/2011 13:25	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.25	5.0	1	EPA SW846-8260B	07/18/2011 13:25	07/18/2011 13:25	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	07/18/2011 13:25	07/18/2011 13:25	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.46	5.0	1	EPA SW846-8260B	07/18/2011 13:25	07/18/2011 13:25	SS
108-88-3	Toluene	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	07/18/2011 13:25	07/18/2011 13:25	SS
1330-20-7	Xylenes, Total	ND		ug/L	1.0	15	1	EPA SW846-8260B	07/18/2011 13:25	07/18/2011 13:25	SS

Sample Information

Client Sample ID: MW-13

York Sample ID: 11G0469-03

<u>York Project (SDG) No.</u> 11G0469	<u>Client Project ID</u> 454 Driggs Ave. Williamsburg, NY	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 13, 2011 3:00 pm	<u>Date Received</u> 07/14/2011
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Volatile Organics, STARS List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.53	5.0	1	EPA SW846-8260B	07/18/2011 14:01	07/18/2011 14:01	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.37	5.0	1	EPA SW846-8260B	07/18/2011 14:01	07/18/2011 14:01	SS
71-43-2	Benzene	ND		ug/L	0.48	5.0	1	EPA SW846-8260B	07/18/2011 14:01	07/18/2011 14:01	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.35	5.0	1	EPA SW846-8260B	07/18/2011 14:01	07/18/2011 14:01	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.39	5.0	1	EPA SW846-8260B	07/18/2011 14:01	07/18/2011 14:01	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.38	5.0	1	EPA SW846-8260B	07/18/2011 14:01	07/18/2011 14:01	SS
91-20-3	Naphthalene	ND		ug/L	0.50	10	1	EPA SW846-8260B	07/18/2011 14:01	07/18/2011 14:01	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.32	5.0	1	EPA SW846-8260B	07/18/2011 14:01	07/18/2011 14:01	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	07/18/2011 14:01	07/18/2011 14:01	SS
95-47-6	o-Xylene	ND		ug/L	0.50	5.0	1	EPA SW846-8260B	07/18/2011 14:01	07/18/2011 14:01	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.55	10	1	EPA SW846-8260B	07/18/2011 14:01	07/18/2011 14:01	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.25	5.0	1	EPA SW846-8260B	07/18/2011 14:01	07/18/2011 14:01	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	07/18/2011 14:01	07/18/2011 14:01	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.46	5.0	1	EPA SW846-8260B	07/18/2011 14:01	07/18/2011 14:01	SS
108-88-3	Toluene	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	07/18/2011 14:01	07/18/2011 14:01	SS
1330-20-7	Xylenes, Total	ND		ug/L	1.0	15	1	EPA SW846-8260B	07/18/2011 14:01	07/18/2011 14:01	SS

Sample Information

Client Sample ID: MW-15

York Sample ID: 11G0469-04

York Project (SDG) No.
11G0469

Client Project ID
454 Driggs Ave. Williamsburg, NY

Matrix
Water

Collection Date/Time
July 13, 2011 3:00 pm

Date Received
07/14/2011

Volatile Organics, STARS List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	9.3		ug/L	0.53	5.0	1	EPA SW846-8260B	07/18/2011 14:38	07/18/2011 14:38	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.37	5.0	1	EPA SW846-8260B	07/18/2011 14:38	07/18/2011 14:38	SS
71-43-2	Benzene	ND		ug/L	0.48	5.0	1	EPA SW846-8260B	07/18/2011 14:38	07/18/2011 14:38	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.35	5.0	1	EPA SW846-8260B	07/18/2011 14:38	07/18/2011 14:38	SS
98-82-8	Isopropylbenzene	5.7		ug/L	0.39	5.0	1	EPA SW846-8260B	07/18/2011 14:38	07/18/2011 14:38	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.38	5.0	1	EPA SW846-8260B	07/18/2011 14:38	07/18/2011 14:38	SS
91-20-3	Naphthalene	ND		ug/L	0.50	10	1	EPA SW846-8260B	07/18/2011 14:38	07/18/2011 14:38	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.32	5.0	1	EPA SW846-8260B	07/18/2011 14:38	07/18/2011 14:38	SS
103-65-1	n-Propylbenzene	6.1		ug/L	0.58	5.0	1	EPA SW846-8260B	07/18/2011 14:38	07/18/2011 14:38	SS
95-47-6	o-Xylene	ND		ug/L	0.50	5.0	1	EPA SW846-8260B	07/18/2011 14:38	07/18/2011 14:38	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.55	10	1	EPA SW846-8260B	07/18/2011 14:38	07/18/2011 14:38	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.25	5.0	1	EPA SW846-8260B	07/18/2011 14:38	07/18/2011 14:38	SS
135-98-8	sec-Butylbenzene	3.7	J	ug/L	0.52	5.0	1	EPA SW846-8260B	07/18/2011 14:38	07/18/2011 14:38	SS
98-06-6	tert-Butylbenzene	1.1	J	ug/L	0.46	5.0	1	EPA SW846-8260B	07/18/2011 14:38	07/18/2011 14:38	SS
108-88-3	Toluene	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	07/18/2011 14:38	07/18/2011 14:38	SS
1330-20-7	Xylenes, Total	ND		ug/L	1.0	15	1	EPA SW846-8260B	07/18/2011 14:38	07/18/2011 14:38	SS

Notes and Definitions

- J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration.
- B Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
-
- ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

Corrective Action:

YORK

ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of 1

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

York Project No. 11 G 0469

YOUR Information Company: <u>EBC</u> Address: <u>1808 Middlebury Rd</u> <u>Windsor</u> Phone No. <u>631 504 6000</u> Contact Person: <u>Charlie Sosik</u> E-Mail Address: <u>File</u>		Report To: Company: <u>Y</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Invoice To: Company: <u>Y</u> Address: <u>454 Driggs Ave</u> <u>Williamstown NY</u> Phone No. _____ Attention: _____ E-Mail Address: _____		YOUR Project ID <u>454 Driggs Ave</u> <u>Williamstown NY</u> Purchase Order No. _____		Turn-Around Time RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input checked="" type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard(5-7 Days) <input type="checkbox"/>		Report Type/Deliverables Summary Report <u>Y</u> Summary w/ QA Summary _____ CT RCP Package _____ NY ASP A Package _____ NY ASP B Package _____ Electronic Deliverables: _____ EDD (Specify Type) _____ Excel _____					
Samples from: CT <input type="checkbox"/> NY <input checked="" type="checkbox"/> NJ <input type="checkbox"/>		Semi-Vols. 8270 or 625 _____ STARS list _____ BN Only _____ Acids Only _____ PAH list _____ TAGM list _____ CT RCP list _____ TCLP list _____ Arom. only _____ Halog. only _____ App. IX list _____ SPLP or TCLP _____ 802.BB list _____		Volatiles TICs _____ Site Spec. _____ Nassau Co. _____ Suffolk Co. _____ Ketones _____ Oxygenates _____ TAGM list _____ CT RCP list _____ TCLP list _____ Arom. only _____ Halog. only _____ App. IX list _____ SPLP or TCLP _____ 802.BB list _____		Metals RCRA8 _____ PPI3 list _____ TAL _____ CT15 list _____ TAGM list _____ NJDEP list _____ Total _____ Dissolved _____ SPLP or TCLP _____ Ind. Metals _____ LIST Below _____		Misc. Org. TPH GRO _____ TPH DRO _____ CT ETPH _____ NY 310-13 _____ TPH 1664 _____ Air TO14A _____ Air STARS _____ Air VPH _____ Air TICs _____ Methane _____ Helium _____		Full Lists Pst. Pol. _____ TCL Organics _____ TAL MeCN _____ Full TCLP _____ Full App. IX _____ Part 360-Basins _____ Part 360-Basins/TOX _____ Part 360-Residuals _____ Part 360-Residuals/Aquatic Tox. _____ NY/DEP Sewer _____ NYSDEC Sewer _____ TAGM _____		Common Miscellaneous Parameters Color _____ Phenols _____ Cyanide-T _____ Cyanide-A _____ BOD5 _____ BOD28 _____ COD _____ Tot. Phos. _____ Oil&Grease _____ F.O.G. _____ pH _____ MBAS _____ Silica _____		Special Instructions Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>	

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

Matrix Codes
 S - soil
 Other - specify (oil, etc.)
 WW - wastewater
 GW - groundwater
 DW - drinking water
 Air-A - ambient air
 Air-SV - soil vapor

 Samples Collected/Authorized By (Signature)
Kevin Waters
 Name (printed)

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-10	7.13	gw	VOCs by 8260 CP51	(2) 40 ml VOA's
MW-12	↓	↓		
MW-13	↓	↓		
MW-15	↓	↓		

Comments

Preservation: 4°C Frozen _____ HCl _____ MeOH _____ HNO₃ _____ H₂SO₄ _____ NaOH _____
 Check those Applicable: ZnAc _____ Ascorbic Acid _____ Other _____

Samples Relinquished By: _____ Date/Time: _____
 Samples Relinquished By: _____ Date/Time: _____

Samples Received/By: _____ Date/Time: 7/14/11 11:50
 Samples Received in LAB by: _____ Date/Time: 7/14/11 18:50

Temperature on Receipt: 4.2°C

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Environmental Business Consultants

1808 Middle Country Rd.

Ridge NY, 11961

Attention: Charles Sosik

Report Date: 09/21/2011

Client Project ID: 454 Driggs Avenue, Brooklyn, NY

York Project (SDG) No.: 1110423

CT License No. PH-0723

New Jersey License No. CT-005



New York License No. 10854

PA License No. 68-04440

Report Date: 09/21/2011
Client Project ID: 454 Driggs Avenue, Brooklyn, NY
York Project (SDG) No.: 1110423

Environmental Business Consultants
1808 Middle Country Rd.
Ridge NY, 11961
Attention: Charles Sosik

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on September 13, 2011 and listed below. The project was identified as your project: **454 Driggs Avenue, Brooklyn, NY**.

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

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

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

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

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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
1110423-01	SG 1	Air	09/12/2011	09/13/2011
1110423-02	SG 2	Air	09/12/2011	09/13/2011
1110423-03	SG 5	Air	09/12/2011	09/13/2011

General Notes for York Project (SDG) No.: 1110423

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

Approved By:



Date: 09/21/2011

Robert Q. Bradley
Executive Vice President / Laboratory Director

YORK

Sample Information

Client Sample ID: SG 1

York Sample ID: 1110423-01

York Project (SDG) No.
1110423

Client Project ID
454 Driggs Avenue, Brooklyn, NY

Matrix
Air

Collection Date/Time
September 12, 2011 3:00 pm

Date Received
09/13/2011

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.17	0.97	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.29	1.2	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.4		ug/m ³	0.095	1.4	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.24	0.97	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.086	0.72	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.11	0.71	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.29	1.3	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
95-63-6	1,2,4-Trimethylbenzene	26		ug/m ³	0.10	0.88	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.27	1.1	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
107-06-2	1,2-Dichloroethane	1.5		ug/m ³	0.17	0.72	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.18	0.82	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.21	1.2	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
108-67-8	1,3,5-Trimethylbenzene	16		ug/m ³	0.11	0.88	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
106-99-0	1,3-Butadiene	ND		ug/m ³	0.12	0.77	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.19	1.1	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.24	1.1	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
123-91-1	1,4-Dioxane	ND		ug/m ³	0.58	0.64	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
540-84-1	2,2,4-Trimethylpentane	1.3		ug/m ³	0.10	0.83	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
78-93-3	2-Butanone	11		ug/m ³	0.21	0.52	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
591-78-6	2-Hexanone	ND		ug/m ³	0.40	0.73	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
107-05-1	3-Chloropropene	ND		ug/m ³	0.10	0.56	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.26	0.73	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
67-64-1	Acetone	23	B	ug/m ³	0.13	0.42	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
71-43-2	Benzene	3.0		ug/m ³	0.085	0.57	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
100-44-7	Benzyl chloride	ND		ug/m ³	0.11	0.92	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
75-27-4	Bromodichloromethane	ND		ug/m ³	0.27	1.1	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
75-25-2	Bromoform	ND		ug/m ³	0.33	1.8	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
74-83-9	Bromomethane	ND		ug/m ³	0.083	0.69	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
75-15-0	Carbon disulfide	ND		ug/m ³	0.067	0.55	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
56-23-5	Carbon tetrachloride	0.90		ug/m ³	0.13	0.56	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
108-90-7	Chlorobenzene	1.1		ug/m ³	0.15	0.82	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
75-00-3	Chloroethane	ND		ug/m ³	0.056	0.47	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
67-66-3	Chloroform	24		ug/m ³	0.13	0.87	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
74-87-3	Chloromethane	ND		ug/m ³	0.11	0.37	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD

Sample Information

Client Sample ID: SG 1

York Sample ID: 1110423-01

York Project (SDG) No.
1110423

Client Project ID
454 Driggs Avenue, Brooklyn, NY

Matrix
Air

Collection Date/Time
September 12, 2011 3:00 pm

Date Received
09/13/2011

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.12	0.71	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.20	0.81	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
110-82-7	Cyclohexane	ND		ug/m ³	0.074	0.61	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
75-71-8	Dichlorodifluoromethane	2.6		ug/m ³	0.22	0.88	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
141-78-6	Ethyl acetate	ND		ug/m ³	0.16	0.64	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
100-41-4	Ethyl Benzene	9.5		ug/m ³	0.14	0.77	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	0.34	1.9	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
67-63-0	Isopropanol	42		ug/m ³	0.15	0.44	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.077	0.64	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
75-09-2	Methylene chloride	3.5		ug/m ³	0.15	3.1	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
142-82-5	n-Heptane	2.0		ug/m ³	0.088	0.73	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
110-54-3	n-Hexane	6.6		ug/m ³	0.075	0.63	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
95-47-6	o-Xylene	15		ug/m ³	0.14	0.77	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
1330-20-7P/M	p- & m- Xylenes	32		ug/m ³	0.26	0.77	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
622-96-8	p-Ethyltoluene	22		ug/m ³	0.16	0.88	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
115-07-01	Propylene	ND		ug/m ³	0.14	0.31	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
100-42-5	Styrene	ND		ug/m ³	0.14	0.76	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
127-18-4	Tetrachloroethylene	17		ug/m ³	0.14	1.2	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
109-99-9	Tetrahydrofuran	11		ug/m ³	0.13	0.52	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
108-88-3	Toluene	30		ug/m ³	0.16	0.67	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
156-60-5	trans-1,2-Dichloroethylene	6.6		ug/m ³	0.085	0.71	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.15	0.81	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
79-01-6	Trichloroethylene	0.67		ug/m ³	0.11	0.48	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
75-69-4	Trichlorofluoromethane (Freon 11)	2.6		ug/m ³	0.060	1.0	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
108-05-4	Vinyl acetate	ND		ug/m ³	0.094	0.63	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
593-60-2	Vinyl bromide	ND		ug/m ³	0.12	0.78	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD
75-01-4	Vinyl Chloride	ND		ug/m ³	0.11	0.45	1.75	EPA Compendium TO-15	09/20/2011 11:36	09/20/2011 11:36	TD

Sample Information

Client Sample ID: SG 2

York Sample ID: 1110423-02

York Project (SDG) No.
1110423

Client Project ID
454 Driggs Avenue, Brooklyn, NY

Matrix
Air

Collection Date/Time
September 12, 2011 3:00 pm

Date Received
09/13/2011

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SG 2

York Sample ID: 1110423-02

York Project (SDG) No.
1110423

Client Project ID
454 Driggs Avenue, Brooklyn, NY

Matrix
Air

Collection Date/Time
September 12, 2011 3:00 pm

Date Received
09/13/2011

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.38	2.1	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.63	2.6	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.21	2.9	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.52	2.1	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.19	1.5	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.23	1.5	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.62	2.8	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
95-63-6	1,2,4-Trimethylbenzene	5.3		ug/m ³	0.23	1.9	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.57	2.3	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.37	1.5	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.39	1.8	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.45	2.7	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.24	1.9	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
106-99-0	1,3-Butadiene	ND		ug/m ³	0.25	1.7	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.41	2.3	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.51	2.3	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
123-91-1	1,4-Dioxane	ND		ug/m ³	1.2	1.4	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
540-84-1	2,2,4-Trimethylpentane	ND		ug/m ³	0.21	1.8	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
78-93-3	2-Butanone	ND		ug/m ³	0.45	1.1	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
591-78-6	2-Hexanone	ND		ug/m ³	0.86	1.6	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
107-05-1	3-Chloropropene	ND		ug/m ³	0.22	1.2	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.56	1.6	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
67-64-1	Acetone	96	B	ug/m ³	0.28	0.91	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
71-43-2	Benzene	ND		ug/m ³	0.18	1.2	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
100-44-7	Benzyl chloride	ND		ug/m ³	0.24	2.0	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
75-27-4	Bromodichloromethane	ND		ug/m ³	0.57	2.4	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
75-25-2	Bromoform	ND		ug/m ³	0.71	4.0	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
74-83-9	Bromomethane	ND		ug/m ³	0.18	1.5	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
75-15-0	Carbon disulfide	ND		ug/m ³	0.14	1.2	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.29	1.2	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
108-90-7	Chlorobenzene	ND		ug/m ³	0.32	1.8	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
75-00-3	Chloroethane	ND		ug/m ³	0.12	1.0	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
67-66-3	Chloroform	ND		ug/m ³	0.28	1.9	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
74-87-3	Chloromethane	ND		ug/m ³	0.24	0.79	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD

Sample Information

Client Sample ID: SG 2

York Sample ID: 1110423-02

York Project (SDG) No.
1110423

Client Project ID
454 Driggs Avenue, Brooklyn, NY

Matrix
Air

Collection Date/Time
September 12, 2011 3:00 pm

Date Received
09/13/2011

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.26	1.5	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.43	1.7	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
110-82-7	Cyclohexane	ND		ug/m ³	0.16	1.3	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	0.47	1.9	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
141-78-6	Ethyl acetate	ND		ug/m ³	0.34	1.4	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
100-41-4	Ethyl Benzene	ND		ug/m ³	0.30	1.7	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	0.73	4.1	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
67-63-0	Isopropanol	3.1		ug/m ³	0.33	0.94	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.17	1.4	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
75-09-2	Methylene chloride	36		ug/m ³	0.32	6.6	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
142-82-5	n-Heptane	2.4		ug/m ³	0.19	1.6	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
110-54-3	n-Hexane	42		ug/m ³	0.16	1.3	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
95-47-6	o-Xylene	2.2		ug/m ³	0.30	1.7	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
1330-20-7P/M	p- & m- Xylenes	6.0		ug/m ³	0.56	1.7	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
622-96-8	p-Ethyltoluene	3.8		ug/m ³	0.34	1.9	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
115-07-01	Propylene	ND		ug/m ³	0.30	0.66	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
100-42-5	Styrene	ND		ug/m ³	0.29	1.6	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
127-18-4	Tetrachloroethylene	200		ug/m ³	0.31	2.6	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
109-99-9	Tetrahydrofuran	ND		ug/m ³	0.28	1.1	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
108-88-3	Toluene	6.9		ug/m ³	0.35	1.4	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.18	1.5	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.31	1.7	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
79-01-6	Trichloroethylene	5.6		ug/m ³	0.25	1.0	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
75-69-4	Trichlorofluoromethane (Freon 11)	4.1		ug/m ³	0.13	2.1	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
108-05-4	Vinyl acetate	ND		ug/m ³	0.20	1.3	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
593-60-2	Vinyl bromide	ND		ug/m ³	0.25	1.7	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD
75-01-4	Vinyl Chloride	ND		ug/m ³	0.23	0.98	3.761	EPA Compendium TO-15	09/16/2011 22:50	09/16/2011 22:50	TD

Sample Information

Client Sample ID: SG 5

York Sample ID: 1110423-03

York Project (SDG) No.
1110423

Client Project ID
454 Driggs Avenue, Brooklyn, NY

Matrix
Air

Collection Date/Time
September 12, 2011 3:00 pm

Date Received
09/13/2011

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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120 RESEARCH DRIVE

STRATFORD, CT 06615

(203) 325-1371

FAX (203) 357-0166

Sample Information

Client Sample ID: SG 5

York Sample ID: 1110423-03

York Project (SDG) No.		Client Project ID		Matrix	Collection Date/Time		Date Received				
1110423		454 Driggs Avenue, Brooklyn, NY		Air	September 12, 2011 3:00 pm		09/13/2011				
71-55-6	1,1,1-Trichloroethane	ND	ug/m ³	0.23	1.3	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/m ³	0.38	1.6	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	ug/m ³	0.13	1.8	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
79-00-5	1,1,2-Trichloroethane	ND	ug/m ³	0.32	1.3	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
75-34-3	1,1-Dichloroethane	ND	ug/m ³	0.11	0.94	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
75-35-4	1,1-Dichloroethylene	ND	ug/m ³	0.14	0.92	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/m ³	0.38	1.7	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
95-63-6	1,2,4-Trimethylbenzene	1.9	ug/m ³	0.14	1.1	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
95-50-1	1,2-Dichlorobenzene	ND	ug/m ³	0.35	1.4	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
107-06-2	1,2-Dichloroethane	ND	ug/m ³	0.23	0.94	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
78-87-5	1,2-Dichloropropane	ND	ug/m ³	0.24	1.1	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
76-14-2	1,2-Dichlorotetrafluoroethane	ND	ug/m ³	0.28	1.6	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
108-67-8	1,3,5-Trimethylbenzene	ND	ug/m ³	0.15	1.1	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
106-99-0	1,3-Butadiene	ND	ug/m ³	0.15	1.0	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
541-73-1	1,3-Dichlorobenzene	ND	ug/m ³	0.25	1.4	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
106-46-7	1,4-Dichlorobenzene	ND	ug/m ³	0.31	1.4	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
123-91-1	1,4-Dioxane	ND	ug/m ³	0.76	0.84	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
540-84-1	2,2,4-Trimethylpentane	1.7	ug/m ³	0.13	1.1	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
78-93-3	2-Butanone	ND	ug/m ³	0.27	0.69	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
591-78-6	2-Hexanone	ND	ug/m ³	0.52	0.95	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
107-05-1	3-Chloropropene	ND	ug/m ³	0.13	0.73	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
108-10-1	4-Methyl-2-pentanone	ND	ug/m ³	0.34	0.95	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
67-64-1	Acetone	74	B	ug/m ³	0.17	0.55	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
71-43-2	Benzene	0.89	ug/m ³	0.11	0.74	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
100-44-7	Benzyl chloride	ND	ug/m ³	0.14	1.2	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
75-27-4	Bromodichloromethane	ND	ug/m ³	0.35	1.4	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
75-25-2	Bromoform	ND	ug/m ³	0.43	2.4	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
74-83-9	Bromomethane	ND	ug/m ³	0.11	0.90	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
75-15-0	Carbon disulfide	ND	ug/m ³	0.087	0.73	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
56-23-5	Carbon tetrachloride	1.0	ug/m ³	0.18	0.73	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
108-90-7	Chlorobenzene	ND	ug/m ³	0.19	1.1	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
75-00-3	Chloroethane	ND	ug/m ³	0.074	0.61	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
67-66-3	Chloroform	ND	ug/m ³	0.17	1.1	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
74-87-3	Chloromethane	ND	ug/m ³	0.14	0.48	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
156-59-2	cis-1,2-Dichloroethylene	ND	ug/m ³	0.16	0.92	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
10061-01-5	cis-1,3-Dichloropropylene	ND	ug/m ³	0.26	1.1	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
110-82-7	Cyclohexane	1.2	ug/m ³	0.096	0.80	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	
75-71-8	Dichlorodifluoromethane	ND	ug/m ³	0.29	1.2	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD	

Sample Information

Client Sample ID: SG 5

York Sample ID: 1110423-03

York Project (SDG) No.
1110423

Client Project ID
454 Driggs Avenue, Brooklyn, NY

Matrix
Air

Collection Date/Time
September 12, 2011 3:00 pm

Date Received
09/13/2011

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
141-78-6	Ethyl acetate	ND		ug/m ³	0.21	0.84	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
100-41-4	Ethyl Benzene	ND		ug/m ³	0.18	1.0	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	0.45	2.5	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
67-63-0	Isopropanol	2.9		ug/m ³	0.20	0.57	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.10	0.84	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
75-09-2	Methylene chloride	290		ug/m ³	0.19	4.0	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
142-82-5	n-Heptane	0.95		ug/m ³	0.11	0.95	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
110-54-3	n-Hexane	73		ug/m ³	0.099	0.82	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
95-47-6	o-Xylene	ND		ug/m ³	0.18	1.0	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
1330-20-7P/M	p- & m- Xylenes	1.8		ug/m ³	0.34	1.0	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
622-96-8	p-Ethyltoluene	1.7		ug/m ³	0.21	1.1	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
115-07-01	Propylene	ND		ug/m ³	0.18	0.40	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
100-42-5	Styrene	ND		ug/m ³	0.18	0.99	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
127-18-4	Tetrachloroethylene	ND		ug/m ³	0.19	1.6	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
109-99-9	Tetrahydrofuran	ND		ug/m ³	0.17	0.69	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
108-88-3	Toluene	2.5		ug/m ³	0.21	0.88	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.11	0.92	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.19	1.1	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
79-01-6	Trichloroethylene	ND		ug/m ³	0.15	0.63	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
75-69-4	Trichlorofluoromethane (Freon 11)	5.6		ug/m ³	0.079	1.3	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
108-05-4	Vinyl acetate	ND		ug/m ³	0.12	0.82	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
593-60-2	Vinyl bromide	ND		ug/m ³	0.15	1.0	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD
75-01-4	Vinyl Chloride	ND		ug/m ³	0.14	0.60	2.291	EPA Compendium TO-15	09/16/2011 10:34	09/16/2011 10:34	TD

Notes and Definitions

- QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- B Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
-
- ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

Corrective Action:

Field Chain-of-Custody Record - AIR

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

York Project No. 11 I 0423

YOUR Information Company: <u>ERC</u> Address: <u>1908 Middle</u> <u>Country Rd. Ridge, NY</u> Phone No: <u>(631) 504-6000</u> Contact Person: <u>Charlie Sorin</u> E-Mail Address: _____		Report To: Company: _____ Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Invoice To: Company: _____ Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		YOUR Project ID <u>454 Driggs Avenue</u> <u>Brooklyn, NY</u> Purchase Order No. Samples from: CT ___ NY ___ NJ ___		Turn-Around Time RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard(5-7 Days) <input checked="" type="checkbox"/>		Report Type/Deliverables Summary Report <input checked="" type="checkbox"/> Summary w/ QA Summary _____ CT RCP Package _____ NY ASP A Package _____ NY ASP B/CLP Pkg _____ NJDEP Reduced _____ Electronic Deliverables: EDD (Specify Type) _____ Standard Excel _____ Regulatory Comparison Excel _____	
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Print Clearly and Legibly. All Information must be legible. Samples will NOT be logged in and the clock will not begin until any questions by the analyst are resolved.

Samples Collected/Authorized By (Signature) _____
 Name (printed) Dominick Mascia

Air Matrix Codes AI- INDOOR Ambient Air AO- OUTDOOR Amb. Air AE- Vapor Extraction Well/ Process Gas/Effluent AS- SOIL Vapor/Sub-Slab		TO15 Volatiles and Other Gas Analyses EPA TO-15 List Tentatively Identified Compounds Air VPH Helium Methane OTHER	
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Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum		Choose Analytes Needed from the Menu Above and Enter Below	Sampling Media
			Before Sampling (in. Hg)	After Sampling (in. Hg)		
SG 1	9-12-2011		-30	-7	TO-15	6 Liter Summa canister
SG 2			-30	-18	TO-15	Tedlar Bag 6 Liter Summa canister
SG 3			-30	-4	TO-15	Tedlar Bag 6 Liter Summa canister
SG 5			-30	-8	TO-15	Tedlar Bag 6 Liter Summa canister
						6 Liter Summa canister
						Tedlar Bag
						6 Liter Summa canister
						Tedlar Bag
						6 Liter Summa canister
						Tedlar Bag
						6 Liter Summa canister
						Tedlar Bag
						6 Liter Summa canister
						Tedlar Bag

Comments _____

Samples Relinquished By [Signature] Date/Time 9-12-2011

Samples Relinquished By _____ Date/Time _____

Samples Received By [Signature] Date/Time 9/15/11 1305

Samples Received in LAB by [Signature] Date/Time 9/13/11 1620

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Environmental Business Consultants

1808 Middle Country Rd.

Ridge NY, 11961

Attention: Charles Sosik

Report Date: 09/21/2011

Client Project ID: ADR 1101 454 Driggs Avenue Brooklyn, NY

York Project (SDG) No.: 1110619

CT License No. PH-0723

New Jersey License No. CT-005



New York License No. 10854

PA License No. 68-04440

General Notes for York Project (SDG) No.: 11I0619

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

Approved By:



Date: 09/21/2011

Robert Q. Bradley
Executive Vice President / Laboratory Director



Sample Information

Client Sample ID: B7 0-2'

York Sample ID: 1110619-01

<u>York Project (SDG) No.</u> 1110619	<u>Client Project ID</u> ADR 1101 454 Driggs Avenue Brooklyn, NY	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 18, 2011 3:00 pm	<u>Date Received</u> 09/19/2011
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Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	1.78		mg/kg dry	0.111	0.114	1	EPA SW846-7471	09/20/2011 13:48	09/20/2011 13:48	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	87.6		%	0.100	0.100	1	SM 2540G	09/20/2011 12:11	09/20/2011 12:11	MZ

Sample Information

Client Sample ID: B8 0-2'

York Sample ID: 1110619-02

<u>York Project (SDG) No.</u> 1110619	<u>Client Project ID</u> ADR 1101 454 Driggs Avenue Brooklyn, NY	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 18, 2011 3:00 pm	<u>Date Received</u> 09/19/2011
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Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	1260		mg/kg dry	0.118	0.353	1	EPA SW846-6010B	09/20/2011 08:22	09/20/2011 11:44	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.114	0.118	1	EPA SW846-7471	09/20/2011 13:48	09/20/2011 13:48	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	85.0		%	0.100	0.100	1	SM 2540G	09/20/2011 12:11	09/20/2011 12:11	MZ

Sample Information

Client Sample ID: B9 0-2'

York Sample ID: 1110619-03

<u>York Project (SDG) No.</u> 1110619	<u>Client Project ID</u> ADR 1101 454 Driggs Avenue Brooklyn, NY	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 18, 2011 3:00 pm	<u>Date Received</u> 09/19/2011
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Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	19.1		mg/kg dry	0.217	0.572	1	EPA SW846-6010B	09/20/2011 08:22	09/20/2011 12:04	MW

Sample Information

Client Sample ID: B9 0-2'

York Sample ID: 1110619-03

<u>York Project (SDG) No.</u> 1110619	<u>Client Project ID</u> ADR 1101 454 Driggs Avenue Brooklyn, NY	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 18, 2011 3:00 pm	<u>Date Received</u> 09/19/2011
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Copper by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	134		mg/kg dry	0.160	0.572	1	EPA SW846-6010B	09/20/2011 08:22	09/20/2011 12:04	MW

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	504		mg/kg dry	0.114	0.343	1	EPA SW846-6010B	09/20/2011 08:22	09/20/2011 12:04	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.111	0.114	1	EPA SW846-7471	09/20/2011 13:48	09/20/2011 13:48	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	87.5		%	0.100	0.100	1	SM 2540G	09/20/2011 12:11	09/20/2011 12:11	MZ

Sample Information

Client Sample ID: B11 0-2'

York Sample ID: 1110619-04

<u>York Project (SDG) No.</u> 1110619	<u>Client Project ID</u> ADR 1101 454 Driggs Avenue Brooklyn, NY	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 18, 2011 3:00 pm	<u>Date Received</u> 09/19/2011
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Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	2140		mg/kg dry	0.119	0.356	1	EPA SW846-6010B	09/20/2011 08:22	09/20/2011 12:12	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.115	0.119	1	EPA SW846-7471	09/20/2011 13:48	09/20/2011 13:48	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	84.4		%	0.100	0.100	1	SM 2540G	09/20/2011 12:11	09/20/2011 12:11	MZ

Sample Information

Client Sample ID: B11 5-7'

York Sample ID: 1110619-05

<u>York Project (SDG) No.</u> 1110619	<u>Client Project ID</u> ADR 1101 454 Driggs Avenue Brooklyn, NY	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 18, 2011 3:00 pm	<u>Date Received</u> 09/19/2011
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Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	3720		mg/kg dry	0.126	0.379	1	EPA SW846-6010B	09/20/2011 08:22	09/20/2011 12:19	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	79.3		%	0.100	0.100	1	SM 2540G	09/20/2011 12:11	09/20/2011 12:11	MZ

Sample Information

Client Sample ID: B12 0-2'

York Sample ID: 1110619-06

<u>York Project (SDG) No.</u> 1110619	<u>Client Project ID</u> ADR 1101 454 Driggs Avenue Brooklyn, NY	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 18, 2011 3:00 pm	<u>Date Received</u> 09/19/2011
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Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	624		mg/kg dry	0.119	0.357	1	EPA SW846-6010B	09/20/2011 08:22	09/20/2011 12:27	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	84.1		%	0.100	0.100	1	SM 2540G	09/20/2011 12:11	09/20/2011 12:11	MZ

Sample Information

Client Sample ID: B13 0-2'

York Sample ID: 1110619-07

<u>York Project (SDG) No.</u> 1110619	<u>Client Project ID</u> ADR 1101 454 Driggs Avenue Brooklyn, NY	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 18, 2011 3:00 pm	<u>Date Received</u> 09/19/2011
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Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.112	0.116	1	EPA SW846-7471	09/20/2011 13:48	09/20/2011 13:48	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	86.5		%	0.100	0.100	1	SM 2540G	09/20/2011 12:11	09/20/2011 12:11	MZ

Sample Information

Client Sample ID: B15 0-2'

York Sample ID: 1110619-08

<u>York Project (SDG) No.</u> 1110619	<u>Client Project ID</u> ADR 1101 454 Driggs Avenue Brooklyn, NY	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 18, 2011 3:00 pm	<u>Date Received</u> 09/19/2011
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Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	8.13		mg/kg dry	0.215	0.566	1	EPA SW846-6010B	09/20/2011 08:22	09/20/2011 12:31	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.110	0.113	1	EPA SW846-7471	09/20/2011 13:48	09/20/2011 13:48	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	88.3		%	0.100	0.100	1	SM 2540G	09/20/2011 12:11	09/20/2011 12:11	MZ

Sample Information

Client Sample ID: B15 6-8'

York Sample ID: 1110619-09

<u>York Project (SDG) No.</u> 1110619	<u>Client Project ID</u> ADR 1101 454 Driggs Avenue Brooklyn, NY	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 18, 2011 3:00 pm	<u>Date Received</u> 09/19/2011
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Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.114	0.118	1	EPA SW846-7471	09/20/2011 13:48	09/20/2011 13:48	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	85.1		%	0.100	0.100	1	SM 2540G	09/20/2011 12:11	09/20/2011 12:11	MZ

Sample Information

Client Sample ID: GW8

York Sample ID: 1110619-10

<u>York Project (SDG) No.</u> 1110619	<u>Client Project ID</u> ADR 1101 454 Driggs Avenue Brooklyn, NY	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 18, 2011 3:00 pm	<u>Date Received</u> 09/19/2011
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Arsenic, Dissolved by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	0.0405		mg/L	0.00130	0.0100	1	EPA SW846-6010B	09/20/2011 15:08	09/20/2011 17:53	MW

Sample Information

Client Sample ID: GW8

York Sample ID: 1110619-10

<u>York Project (SDG) No.</u> 1110619	<u>Client Project ID</u> ADR 1101 454 Driggs Avenue Brooklyn, NY	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 18, 2011 3:00 pm	<u>Date Received</u> 09/19/2011
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Lead, Dissolved by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0155		mg/L	0.00120	0.00300	1	EPA SW846-6010B	09/20/2011 15:08	09/20/2011 17:53	MW

Arsenic by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	0.0419		mg/L	0.00130	0.0100	1	EPA 200.7	09/20/2011 15:08	09/20/2011 18:10	MW

Copper by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	ND		mg/L	0.00160	0.00500	1	EPA 200.7	09/20/2011 15:08	09/20/2011 18:10	MW

Copper, Dissolved by 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	ND		mg/L	0.00160	0.00500	1	EPA 200.7	09/20/2011 15:08	09/20/2011 17:53	MW

Lead by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0680		mg/L	0.00120	0.00300	1	EPA 200.7	09/20/2011 15:08	09/20/2011 18:10	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0003000		mg/L	0.00003900	0.0002000	1	EPA SW846-7470	09/21/2011 10:43	09/21/2011 10:43	AA

Mercury, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00003900	0.0002000	1	EPA SW846-7470	09/21/2011 10:44	09/21/2011 10:44	AA

Sample Information

Client Sample ID: GW16

York Sample ID: 1110619-11

<u>York Project (SDG) No.</u> 1110619	<u>Client Project ID</u> ADR 1101 454 Driggs Avenue Brooklyn, NY	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 18, 2011 3:00 pm	<u>Date Received</u> 09/19/2011
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Arsenic, Dissolved by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: GW16

York Sample ID: 1110619-11

York Project (SDG) No.
1110619

Client Project ID
ADR 1101 454 Driggs Avenue Brooklyn, NY

Matrix
Water

Collection Date/Time
September 18, 2011 3:00 pm

Date Received
09/19/2011

Arsenic, Dissolved by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.00130	0.0100	1	EPA SW846-6010B	09/20/2011 15:08	09/20/2011 18:15	MW

Lead, Dissolved by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0131		mg/L	0.00120	0.00300	1	EPA SW846-6010B	09/20/2011 15:08	09/20/2011 18:15	MW

Arsenic by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	0.0192		mg/L	0.00130	0.0100	1	EPA 200.7	09/20/2011 15:08	09/20/2011 18:20	MW

Copper by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	0.0270		mg/L	0.00160	0.00500	1	EPA 200.7	09/20/2011 15:08	09/20/2011 18:20	MW

Copper, Dissolved by 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	ND		mg/L	0.00160	0.00500	1	EPA 200.7	09/20/2011 15:08	09/20/2011 18:15	MW

Lead by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.511		mg/L	0.00120	0.00300	1	EPA 200.7	09/20/2011 15:08	09/20/2011 18:20	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.001300		mg/L	0.0000390	0.000200	1	EPA SW846-7470	09/21/2011 10:43	09/21/2011 10:43	AA

Mercury, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0006000		mg/L	0.0000390	0.000200	1	EPA SW846-7470	09/21/2011 10:44	09/21/2011 10:44	AA

Notes and Definitions

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

Corrective Action:

YORK

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

Field Chain-of-Custody Record

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

York Project No. 11DOG19

Client Information Company: <u>ERC</u> Address: _____ Phone No. _____ Contact Person: _____ E-Mail Address: _____		Report To: Company: _____ Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Invoice To: Company: _____ Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Client Project ID <u>ADP 1101</u> <u>454 Drigg Av</u> <u>Brooklyn</u> Purchase Order No. _____		Turn-Around Time 24 hr _____ 48 hr <u>X</u> 72 hr _____ 5 Day _____		Report Type/Deliverables Summary Results Only <u>X</u> QA/QC Summary _____ RCP Package _____ ASP B Pkg _____ ASP A Pkg _____ Excel format _____ EDD _____ OTHER _____	
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Print Clearly and Legibly. All information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Matrix Codes
 S - soil
 Other - specify (oil, etc.)
 WW - wastewater
 GW - groundwater
 DW - drinking water
 Air-A - ambient air
 Air-SV - soil vapor

Samples Collected/Authorized By (Signature)
Charles Sark
 Name (printed)
Charles Sark

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
B7 0-2'	9/18/11	Soil	Hg	
B8 0-2'			Hg, Pb, As, Hg, Pb, Cu	
B9 0-2'			Hg, Pb, Pb	
B11 0-2'			Pb	
B11 5-7'			Pb	
B12 0-2'			Hg	
B13 0-2'			As, Hg	
B15 0-2'			Hg	
B15 0-8'				

4°C _____ Frozen _____ 4°C _____
 H₂O _____ MeOH _____ HNO₃ 4°C _____
 H₂SO₄ _____ H₂O _____ 4°C _____
 H₂SO₄ _____ NaOH _____
 ZnAc _____ Ascorbic _____ Other _____

9/18/11
 Samples Relinquished By Charles Sark Date/Time _____
 Samples Received By Grace Date/Time 9/19/11 1415
 Samples Relinquished By _____ Date/Time _____
 Samples Received in LAB by _____ Date/Time 9/19/11 1640

Temperature on Receipt 5.1°C

