APPENDIX F

Remedial Investigation Report – Lot 57

GZA – December 2016

93 DUPONT STREET – BLOCK 2487, LOT 57

BROOKLYN, NEW YORK

Remedial Investigation Report

NYC VCP Site Number: (17TMP0160K)

Prepared for:

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Prepared by:

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December 2016

REMEDIAL INVESTIGATION REPORT

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LIST OF ACRONYMS

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

SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database
SVI	Soil Vapor Intrusion (Guideline)
SVOC	Semi-Volatile Organic Compound
TCE	Trichloroethene
UUSCOs	Unrestricted Use Soil Cleanup Objectives
USTs	Underground Storage Tanks
VOC	Volatile Organic Compound

CERTIFICATION

I, David M. Winslow, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(tt). I have primary direct responsibility for implementation of the Remedial Investigation for 93 Dupont Street (Site). 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.

David M. Winslow 12/15/16 

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 93 Dupont Street in the Greenpoint section of Brooklyn, New York and is identified as Block 2487 and Lot 57 on the New York City Tax Map. The Site is 13,000-square feet and is bounded by residential buildings to the north, Dupont Street to the south, residential buildings to the east, and vacant industrial buildings, also owned by the Dupont Street Developer, LLC, to the west. Currently, the Site is a vacant former warehouse that is a single open room with a narrow elevated catwalk on the north side of the room. The building is constructed primarily of concrete block with a concrete floor.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of a new multifamily residential building. The current zoning designation is M1-2/R6A, Industrial and Manufacturing, as well as, Residential. The proposed use is consistent with existing zoning for the property and includes a planned five story, market rate, residential building with one basement floor constructed to approximately 5 feet below grade, which will contain indoor utility/mechanical and residential amenities, bicycle parking, and storage space within the majority of the building footprint. The remainder of the rear lot will be built at the basement depth and completed as outdoor parking with 18 parking spaces. There will be 27 residential units in the building with a gross construction floor area of about 31,623 square feet.

The building height will be approximately 50 feet, with a building footprint of 130 feet wide and 52 feet deep and a 5-foot setback in the front. A 38 foot deep backyard will be completed at a vertical depth of about 5 feet below current grades. There will be a 17 foot wide driveway on the east side of the lot that ramps down to the backyard parking area from street grade. The finished surface cover in the backyard will be concrete slab. The front yard will be completed with concrete paving and ramps.

It is anticipated that demolition of the existing structure will take place prior to excavation across the entire lot, with an excavation depth of approximately 5.5 feet planned. The excavation quantity is estimated (based on a 13,000 sf site footprint and 5.5-ft depth) to be about 2,700 cubic yards (or about 4,300 tons). Excavation is anticipated to be at or extend below the water table in some portions of the building.

Summary of Past Uses of Site and Areas of Concern

The adjoining properties have different uses. Immediately to the north are residential properties with the residential structures close to Clay Street with at least partially vegetated backyards that extend to the existing Site building. These properties are zoned R6B. The properties on the north side of Clay Street are zoned M1-2/R6 and include mixed commercial operations and potential residential properties. South of the Site is Dupont Street with residential properties and a senior housing center. These properties are zoned R6B. Residential properties are also located to the east with the same R6B zoning. To the west are additional vacant industrial buildings owned by the Dupont Street Developer, LLC that were formerly used by the Nuhart & Company Plastics Manufacturing Company. A series of investigations on Lots [1, 10, 12, 17, 18, 20, 21, 72, and 78] of the Nuhart factory building have identified environmental impacts that are currently being managed under NYS DEC authority within the Inactive Hazardous Waste Site Program (Registry site) and Petroleum Spills program. Known contamination includes Phthalates (bis(2-ethylhexyl) phthalate (DEHP), Di-n-octyl phthalate) and Hecla oil, and Trichloroethylene (TCE) plumes, as well as a petroleum spill [and tanks]. These properties are zoned M1-2/R6A. The Office of Environmental Remediation's (NYC OER's) SPEED database did not identify schools, hospitals, or day care facilities within 500 feet of the site.

Seventeen (17) underground storage tanks (USTs) and associated sub-grade pipe trenches were cleaned out and closed in place at the Nuhart factory Registry site (to the west of the subject site) in 2006; this work was conducted under NYSDEC oversight. The tanks included 8 USTs formerly containing plasticizers (phthalates) and 4 USTs containing "Super Hecla" oil (a heavy-weight machine lubricant) located at the Registry site and 5 USTs (3 fuel oil tanks and 2 chemical tanks containing methyl tert-butyl ketone and acetone) located in the associated NuHart manufacturing buildings (Lots 20 and 21). Spill #0601852 was reported to the NYSDEC for a petroleum release associated with the fuel oil USTs. The closest distance

from the identified tanks (on Lot 21) to the subject Site (the Lot 57 lot line) is approximate 150 feet.

Phthalates and lubricating oil (Hecla oil), most likely released from the Registry site's tank and piping/trench systems, are present as a light non-aqueous-phase liquid (LNAPL) plume floating on the groundwater surface. The LNAPL plume is present beneath much of the Registry Site, particularly in the western half of the Registry site where most of the phthalate and lubricating oil-related infrastructure was present. The closest distance from the identified edges of the phthalate to the subject Site (the Lot 57 lot line) is approximate 400 feet.

The TCE (and related chlorinated solvents) plume was detected at limited solvent "hot spot" areas in the northeastern portion of the Registry site. This "hot spot" extends slightly offsite beneath the sidewalk on the south side of Clay Street, but does not extend to the north side of Clay Street, or to the east of the Registry site. The distance from the identified edges of the TCE to the subject Site (the Lot 57 lot line) is approximate 200 feet.

Based on information presented in a 2005 Phase I Environmental Site Assessment prepared by FPM Group for the larger Nuhart & Company facility, the subject Site was used as a storage warehouse until it became vacant in 2004; no manufacturing took place within Lot 57. Prior to Dupont Street Developer, LLC owning the Site, the property was owned by 49 Dupont Realty Corp and Stralin Realty – both reportedly operating it as Nuhart & Company, Inc. Prior to March 1961 the Site was owned by Matthew and Julia Much. Historic documents suggest that while operated by Nuhart & Company, the subject Site was solely used as warehouse storage.

Based on the Phase I Site reconnaissance and review of previous investigations, it appears the entire building on Lot 57 was used to store finished materials and there were no specific areas where former site activities are suspected to have resulted in the release of contaminated media. Based on the previous waste characterization work conducted at the subject Site, there is the potential for historic urban fill material of unknown origin to have been placed on the subject Site during or prior to construction of the existing on-site building.

Summary of the Work Performed under the Remedial Investigation

Roux and FPM on behalf of Dupont Street Developer, LLC performed the following scope of work in accordance with the remedial investigation work plan transmitted to NYC OER on February 10, 2016.

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);

2. Installed eight soil borings at the project Site, and collected a total of 21 soil samples and two field duplicates for chemical analysis from the soil borings to evaluate soil quality;

3. Installed five groundwater monitoring wells across the Site to establish groundwater flow and collected a total of five groundwater samples and one field duplicate for chemical analysis to evaluate groundwater quality; and

4. Installed seven soil vapor probes around the Site perimeter and collected a total of seven soil vapor samples and three ambient air samples for chemical analysis.

Summary of Environmental Findings

Three distinct geologic strata were encountered at the Site between land surface (sidewalk grade) and a maximum depth of 15 feet. These strata include from land surface downward:

- Fill material, commonly referred to as "historic fill", which is present across most of the Site with a thickness that ranges from approximately 1 to 4 feet.
- A brown sand and silt strata, with trace amounts of gravel, underlies the "historic fill" strata and extends downward with a thickness of approximately 10 to 13 feet.
- A brown clayey silt strata underlies the sand and silt strata and extends downward to the maximum depth of borings drilled at the Site.
- The average depth to groundwater is about 6.2 feet and the range in depth is from 4.4 ft to 8.74 ft. Groundwater flow, based on the measured depths, is from east to west.

Soil/fill samples collected during the RI were compared to the NYSDEC Part 375-6 Unrestricted Use and Restricted Residential Use (Track 2) Soil Cleanup Objectives (UUSCOs and RRSCOs). There were no UUSCOs exceedances for volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs), and no RRSCOs exceedances for Pesticides. The semi-volatile organic compounds (SVOCs), benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-c,d)pyrene] were detected at concentrations above their respective UUSCOs and RRSCOs in three of the soil borings at shallow levels; chrysene and

dibenz(a,h)anthracene were detected above their respective UUSCOs and RRSCOs from a shallow fill sample collected from 0 to 2 ft bgs; benzo(k)fluoranthene was detected above its UUSCO but below the RRSCO in two samples at 0 to 2 ft bgs; and chrysene was detected above its UUSCO, but below its RRSCO, in one sample at 0-2 ft bgs. Overall, the SVOCs exceedances were observed from the shallow fill soil (0-2 ft bgs). There were no SVOCs exceedance in the intermediate or deep soil samples (4-12 ft bgs) tested. Bis(2-ethylhexyl) phthalate was detected with the maximum concentration of 2,000 µg/kg and was below the Residential Supplemental SCO level. Bis(2-ethylhexyl) phthalate and Di-n-octyl phthalate have been detected in contaminated soil and groundwater beneath the NuHart manufacturing buildings to the west, however, on-going monitoring at the site shows no indication that the low-level soil contamination identified on Lot 57 is associated with those source areas.

Five metals (barium, lead, copper, mercury, and zinc) were detected above Track 1 UUSCOs. Only barium (max. 490 mg/kg) and lead (max. 2500 mg/kg) were detected above the RRSCOs. Overall, the findings are consistent with observations for readily available public documents from other historic fill sites in NYC and did not indicate an on-Site release of hazardous substances.

Groundwater samples collected during the RI showed no observation of VOCs, PCBs, and Pesticides that exceed the NYSDEC Ambient Water-Quality Standards and Guidance Values (AWQSGVs). Two out of the five monitoring wells contained SVOC detections exceeding AWQSGVs. Specifically, phenol (3.5µg/L) was found exceeding AWQSGVs in one onsite monitoring well. Other SVOCs exceedances were observed from offsite monitoring well MW-102 (located within the Nuhart property, on adjacent Lot 17 to the west); where benzo[a]anthracene (0.11 µg/L), benzo[a]pyrene (0.11 µg/L), benzo[b]fluoranthene (0.15 µg/L), benzo[k]fluoranthene (0.06 µg/L), chrysene (0.1 µg/L), and indeno[1,2,3-cd]pyrene (0.08 µg/L) were detected. The SVOC concentrations detected above the AWQSGVs were reported as estimated by the laboratory. Bis(2-ethylhexyl) phthalate was detected at 3.9 µg/L and 4.7 µg/L in two onsite monitoring wells, both detections were below the NYSDEC AWQSGV of 5 µg/L. Di-n-octyl phthalate was not detected in any of the groundwater samples on the site. Bis(2-ethylhexyl) phthalate and Di-n-octyl phthalate have been detected in the phthalate plume beneath the Nuhart Registry site to the west, however, on-going monitoring at the site shows no indication that the low-level groundwater contamination identified on Lot 57 are associated with the plume.

Dissolved metals were observed around or slightly above their NYSDEC AWQSGVs. Specifically, antimony ranged from 0.0031 µg/L to 0.0036 µg/L. Iron was detected at 0.338 µg/L. Selenium ranged from 0.017 µg/L to 0.043 µg/L. For the offsite monitoring well (MW-102), lead was detected at 0.0255 µg/L and manganese was detected at 0.3949 µg/L.

Approximately 26 petroleum-related and chlorinated VOCs were detected above method detection limits within the seven soil vapor samples collected. Soil vapor results were compared with the NYSDOH Final Guidance on Soil Vapor Intrusion (October 2006) values. Low concentrations of petroleum-related VOCs were detected in each of the seven soil vapor samples. Benzene detections ranged from 0.783 to 2.67 micrograms per cubic meter (µg/m^3). Ethylbenzene detections ranged from 0.877 to 2.76 µg/m^3. Toluene detections ranged from 1.05 to 4.03 µg/m^3. Total xylenes detections ranged from 2.91 to 12.93 µg/m^3. The highest concentration detected was 54.5 µg/m^3 of carbon disulfide. Carbon tetrachloride was detected in one indoor air sample and two outdoor air samples, with a maximum concentration of 0.377 µg/m^3. Tetrachloroethene (PCE) was not detected in any of the soil vapor samples. PCE was detected in the indoor air sample and the outdoor air samples, with a maximum concentration of 0.224 µg/m^3. TCE was not detected in any of the samples collected at the Site. 1,1,1-trichloroethane (1,1,1-TCA) was detected in one of the soil vapor samples at a concentration of 1.42 µg/m^3. Cis-1,2-dichloroethene (Cis-1,2-DCE), 1,1-dichloroethene (1,1-DCE), and vinyl chloride were not detected in any soil vapor, indoor air, or outdoor air samples during this RI. The soil vapor survey does not indicate impacts from the TCE plume beneath neighboring areas of the factory building to the west. Based on the VOC concentrations detected and the NYSDOH decision matricies, no further action would be required. Impacts on soil, groundwater and soil vapor from petroleum and chlorinated VOCs have been previously characterized to the west and northwest beneath other areas of the Nuhart factory building.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Dupont Street Developers, LLC (the "Applicant") has requested to enroll in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.3-acre (13,000 square foot) site located at 93 Dupont Street in the Greenpoint section of Brooklyn, New York (Site). Residential use is proposed for the property. The RI work was performed between February 18, 2016 and March 11, 2016. 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 93 Dupont Street in the Greenpoint section of Brooklyn, New York and is identified as Block 2487 and Lot 57 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 13,000-square feet and is bounded by residential buildings to the north, Dupont Street to the south, residential buildings to the east, and vacant industrial buildings, also owned by the Dupont Street Developer, LLC, to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is a vacant former warehouse that is a single open room with a narrow elevated catwalk on its north side. The building is constructed primarily of concrete block with a concrete floor.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of a new multifamily residential building. The current zoning designation is M1-2/R6A, Industrial and Manufacturing, as well as, Residential. The proposed use is consistent with existing zoning for the property and includes a planned five story, market rate, residential building with one basement floor constructed to approximately 5 feet below grade, which will contain indoor utility/mechanical and residential amenities, bicycle parking, and storage space within the majority of the building footprint. The remainder of the rear lot will be built at the basement depth and completed as outdoor parking with 18 parking spaces. There will be 27 residential units in the building with a gross construction floor area of about 31,623 square feet.

The building height will be approximately 50 feet, with a building footprint of 130 feet wide and 52 feet deep and a 5-foot setback in the front. A 38 foot deep backyard will be completed at a vertical depth of about 5 feet below current grades. There will be a 17 foot wide driveway on the east side of the lot that ramps down to the backyard parking area from street grade. The finished surface cover in the backyard will be concrete slab. The front yard will be completed with concrete paving and ramps.

It is anticipated that demolition of the existing structure will take place prior to excavation across the entire lot, with an excavation depth of approximately 5.5 feet planned. The excavation quantity is estimated (based on a 13,000 sf site footprint and 5.5-ft depth) to be about 2,700 cubic yards (or about 4,300 tons). Excavation is anticipated to be at or extend below the water table in some portions of the building. The existing building will be demolished prior to construction activities.

1.3 Description of Surrounding Property

The adjoining properties have different uses. Immediately to the north are residential properties with the residential structures close to Clay Street with at least partially vegetated backyards that extend to the existing Site building. These properties are zoned R6B. The properties on the north side of Clay Street are zoned M1-2/R6 and include mixed commercial operations and potential residential properties. South of the Site is Dupont Street with residential properties and a senior housing center. These properties are zoned R6B. Residential properties are also located to the east with the same R6B zoning. To the west are additional vacant industrial buildings owned by the Dupont Street Developer, LLC that were formerly used by the Nuhart & Company Plastics Manufacturing Company. A series of investigations on Lots [1, 10, 12, 17, 18, 20, 21, 72, and 78] of the adjacent Nuhart factory site have identified environmental impacts that are currently being managed under NYS DEC authority within the Superfund and Spills programs. Known contamination includes phthalate and TCE plumes, as well as a petroleum spill [and tanks]. These properties are zoned M1-2/R6A. The Office of Environmental Remediation's (NYC OER's) SPEED database did not identify schools, hospitals, or day care facilities within 500 feet of the site.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

Based on information presented in a 2005 Phase I Environmental Site Assessment (Appendix A) prepared by FPM Group for the larger Nuhart & Company facility, the Site was used as a storage warehouse until it became vacant in 2004 and no manufacturing took place within Lot 57. Prior to Dupont Street Developer, LLC owning the Site, the property was owned by 49 Dupont Realty Corp and Stralin Realty – both reportedly operating it as Nuhart & Company, Inc. Prior to March 1961, the Site was owned by Matthew and Julia Much. Historic documents suggest that while operated by Nuhart & Company, the Site was solely used as warehouse storage.

2.2 Previous Investigations

Manufacturing operations took place to the west of the Site at the westerly portions of the Nuhart Plastic facility. A portion of this area is currently an Inactive Hazardous Waste registry site (the Registry site). Seventeen (17) underground storage tanks (USTs) and associated sub-grade pipe trenches were cleaned out and closed in place at the NuHart Registry site (to the west of the subject site) in 2006; this work was conducted under NYSDEC oversight. The tanks included 8 USTs formerly containing plasticizers (phthalates) and 4 USTs containing "Super Hecla" oil (a heavy-weight machine lubricant) located at the Registry site and 5 USTs (3 fuel oil tanks and 2 chemical tanks containing methyl tert-butyl ketone and acetone) located in the associated NuHart manufacturing buildings (Lots 20 and 21). Spill #0601852 was reported to the NYSDEC for a petroleum release associated with the fuel oil USTs. The closest distance from the identified tanks (on Lot 21) to the subject Site (the Lot 57 lot line) is approximate 150 feet.

Phthalates and lubricating oil (Hecla oil), most likely released from the Registry site's tank and piping/trench systems, are present as a LNAPL plume floating on the groundwater surface. The LNAPL plume is present beneath much of the NuHart Registry Site, particularly in the western half of the Registry site where most of the phthalate and lubricating oil-related infrastructure was present. The closest distance from the identified edges of the phthalate to the subject Site (the Lot 57 lot line) is approximate 400 feet.

The TCE (and related chlorinated solvents) plume was detected at limited solvent "hot spot" area in the northeastern portion of the NuHart Registry. This "hot spot" extends slightly offsite beneath the sidewalk on the south side of Clay Street, but does not extend to the north side of Clay Street, or to the east of the Registry site. The distance from the identified edges of the TCE to the subject Site (the Lot 57 lot line) is approximate 200 feet.

To date, the following investigations/studies have been conducted for the entire Former NuHart Plastic Registry site.

- Preliminary Phase I Environmental Site Assessment, prepared by RTP Environmental Associates, Inc. dated September 2004
- Phase I Environmental Site Assessment, prepared by FPM group dated April, 2005;
- Underground Tank Closure Report, prepared by Advanced Site Restoration, LLC, dated July 2006.
- Phase II Site Assessment prepared by Advanced Site Restoration, LLC., dated March 2007;
- Product Testing Report prepared by FPM Group, dated February 23, 2015;
- Test Pit Report, prepared by FPM Group, dated May 28, 2015;
- Remedial Investigative Report prepared by Ecosystems Strategies, Inc., dated July 30, 2015;
- Supplemental Remedial Investigative Reports, prepared by Ecosystems Strategies, Inc., dated October 2015;
- Feasibility Study prepared by FPM Group, dated April 2016;
- Revised Feasibility Study prepared by GZA, dated August 2016.

As part of the previous investigations conducted at the Registry site, one boring was installed at the Site. Specifically, a March 2007 Phase II Site Assessment of 49-55 Dupont Street (Appendix B), prepared by Advanced Site Restoration, LLC included one soil boring (SB-1) that was advanced within Lot 57. Two soil samples were collected from SB-1, one from 1 to 5 feet and a second from 5 to 10 feet below land surface. Soil samples were analyzed for the Spill Technology and Remediation Series Memo #1 (STARS) List for VOCs and SVOCs with no detections reported. In January 2016, a waste characterization sampling program was conducted

by Roux Associates, which included collection of six soil samples spaced uniformly across the Site. These samples were composite samples from the zero to ten foot interval. Field characterization of soils identified fill material in the upper several feet in some borings. Although some analytes were detected, there were no VOCs, SVOCs, PCBs, or pesticides detected aboveNYSDEC, UUSCOs. One of 25 metals analyzed, iron, was detected above NYSDEC Residential Use SCOs (RUSCOs).

2.3 Site Inspection

Several site inspections have been conducted by Roux Associates to evaluate areas of concern between June 2015 and March 2016; additional inspections were conducted by GZA Environmental of New York (GZA) between August 2016 and September 2016 under the direction of or conducted by the Qualified Environmental Professional (QEP) certifying this report. No specific areas of concern were observed during these inspections.

2.4 Areas of Concern

To the west of the subject Site, the LNAPL plume is present beneath much of the Registry site, particularly in the western half of the Registry site where most of the phthalate and hecla oil-related infrastructure was present. The top of the LNAPL-impacted zone is generally found at about 13 to 15 feet below the top of the existing slab (except in immediate proximity to tanks) at the registry site. The bottom of the LNAPL-impacted zone was generally identified at about 14 to 17 feet below the top of the slab. LNAPL extends to the west of the Registry site; but, not as far as the playground approximate 100 ft to the west of the Registry site, the vacant property to the southwest (Lot 57), or across Clay or Commercial Streets.

The TCE and related chlorinated solvent plume were detected at a limited solvent "hot spot" area in the northeastern portion of the Registry site. This "hot spot" extends slightly off the Registry site beneath the sidewalk on the south side of Clay Street. The TCE impacted soil has been identified only at depth (generally 10 to 25 feet bgs). Soil above 10 feet bgs did not exhibit detections of chlorinated solvent VOCs in excess of the Unrestricted Use Site Cleanup Objectives, with the only exception being soil in the 0 to 5-foot interval of onsite soil boring 2SB-2.

Based on the Phase I, Site inspections, and review of previous investigations, it appears that the area of the Nuhart building located on Lot 57 was used to store finished materials and there were no specific areas where former site activities are suspected to have resulted in the release of contaminated media. Based on the previous waste characterization work conducted at the Site, there is the potential for historic urban fill material of unknown origin to have been placed on the Site during or prior to construction of the existing on-site warehouse building.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The QEP responsible for preparation of this RIR is a representative of Goldberg Zoino & Associates of New York, P.C.

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, as well as, the Health and Safety Plan written by Advanced Site Restoration LLC (Appendix C).

3.3 Materials Management

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

4.0 REMEDIAL INVESTIGATION ACTIVITIES

Roux and FPM on behalf of Dupont Street Developer, LLC performed the following scope of work in accordance with the remedial investigation work plan transmitted to OER on February 10, 2016.

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed eight soil borings at the project Site, and collected a total of 21t soil samples and two field duplicates for chemical analysis from the soil borings to evaluate soil quality;
3. Installed five groundwater monitoring wells across the Site to establish groundwater flow and collected a total of five groundwater samples and one field duplicate for chemical analysis to evaluate groundwater quality;
4. Installed seven soil vapor probes around the Site perimeter and collected a total of seven soil vapor samples and three ambient air samples for chemical analysis.

4.1 Geophysical Investigation

A geophysical investigation was not performed as part of this scope of work, as no underground storage tanks (USTs), drums, etc. were identified in historic Sanborn Fire Insurance maps, during site inspection, or in any of the other documents reviewed and no historic demolition activities occurred at the Site.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

Soil boring locations were identified in the field and are shown on Figure 3. A total of eight soil borings were advanced at the Site and on the adjacent lot as shown on Figure 3.

For all soil borings, soil samples were field screened for VOCs using a photoionization detector (PID). All soils were visually inspected for evidence of impacts (e.g., odors, staining, and visible free product) and the lithology was recorded, based on observation. Geologic logs were prepared by a scientist or engineer for each boring and are provided in Appendix D.

Geoprobe Drilling Method

The Geoprobe drilling method at the Site involved the advancement of a two-inch diameter direct push core barrel into an undisturbed formation using downward pressure. The sample (generally collected in 5-foot intervals) is extruded from the core barrel within a macro-liner. Upon sample collection, the core barrel is returned to the borehole with a new liner and advanced to the next desired depth interval. Due to the nature and equipment used in this drilling, soil samples are collected in a continuous manner from the beginning of boring to the target depth. Soils were separated into a maximum of two-foot sections, field screened, and observed, with the field representatives observations used to prepare the boring logs.

Groundwater Monitoring Well Construction

Temporary monitoring wells were installed within soil borings at five locations at the Site to evaluate groundwater quality. Wells were constructed of 1-inch inside-diameter, PVC casing and 0.010-inch slot machined screen. The temporary wells were constructed with 10 feet of well screen material and sampled after purging. Monitoring well and groundwater sampling locations are shown in Figure 3. Monitoring well construction logs for each well are provided in Appendix D.

Survey

During the RI, all monitoring well locations were measured from fixed points for horizontal location and surveyed in the field using differential leveling for elevation to the nearest 0.01 foot.

Water Level Measurement

All monitoring wells were gauged with a water level meter on February 18, 2016, February 19, 2016 and March 7, 2016 by Roux Associates and by FPM Group as part of a larger water level measurement round associated with monitoring of 49 Dupont Street, which is under NYSDEC oversight. Water level data is included in Table 2.

4.3 Sample Collection and Chemical Analysis

As there were no specific Areas of Concern, sampling performed as part of the field investigation was conducted for the Site in accordance with the February 10, 2016 remedial investigation work plan, professional judgment, observed water levels, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil

vapor have been sampled and evaluated in this 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

Twenty-one soil samples 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 1 and 3 and Appendix E. Figure 3 shows the horizontal location of samples collected in this investigation. Soil samples were analyzed for:

- Target Compound List (TCL) VOCs;
- TCL SVOCs;
- Pesticides;
- PCBs; and
- Target Analyte List (TAL) Metals.

Disposable sampling equipment was used for all sample collection. Field equipment blanks (two field blanks and two trip blanks) were collected to assess potential impacts to chemical analysis from sampling equipment. Two duplicate samples were also collected for quality assurance/quality control (QA/QC) purposes. All samples were collected in laboratory supplied containers and placed in coolers with ice. All samples were shipped by courier to the laboratory and analyzed by Alpha Analytical of Westborough, Massachusetts, an ELAP-certified laboratory.

Groundwater Sampling

Five groundwater samples were collected for chemical analysis during this RI. Groundwater sample collection data is reported in Tables 1 and 3 and Appendix E. Figure 3 shows the locations of the groundwater monitoring wells. Groundwater samples were analyzed for:

- TCL VOCs;
- TCL SVOCs;
- Pesticides;

- PCBs; and
- TAL Metals (both total and dissolved).

Groundwater samples were collected using a peristaltic pump and disposable sampling equipment dedicated to each location. Filtered samples were laboratory filtered. Field equipment blanks (one field blank and one trip blank) were collected to assess potential impacts to chemical analysis from sampling equipment. One duplicate sample was also collected for quality assurance/quality control (QA/QC) purposes. All samples were collected in laboratory supplied containers and placed in coolers with ice. All samples were shipped by courier to the laboratory and analyzed by Alpha Analytical of Westborough, Massachusetts, an ELAP-certified laboratory.

Soil Vapor Sampling

Seven soil vapor probes (SV-201 through SV-207) were installed and 10 air samples collected, including two outdoor ambient air samples (OA-302 and OA-303), and one indoor air sample (IA-301) for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 3. Soil vapor sample collection data is reported in Tables 1 and 3 and Appendix E . Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.*

During this RI, soil vapor points were installed by using a Geoprobe drill rig. New Teflon□□lined tubing equipped with a threaded stainless steel fitting was lowered into the borehole and attached to the expendable soil vapor sampling point. With the exception of the SV-206 location, each borehole was filled with sand to 5.0 feet below land surface and a bentonite seal was placed to 4.5 feet below land surface (bls) forming an airtight seal between the tubing and the borehole to prevent infiltration of ambient air. At the SV-206 location, the soil vapor screen was set from 4.0 to 4.5 feet bls. Prior to sample collection, the Teflon□-lined tubing was purged of approximately two volumes of the tubing using a vacuum pump set at a rate of 0.2 liters per minute. A tracer gas (i.e., helium) was used to enrich the atmosphere in a shroud covering the borehole in order to test the borehole seal and verify that ambient air was not being drawn into the sample. Following purging and verification with the tracer gas, the soil vapor sample was collected in the laboratory supplied 2.7-liter SUMMA canister.

All SUMMA canister samples were shipped by courier to the laboratory and analyzed by Alpha Analytical of Westborough, Massachusetts, an ELAP-certified laboratory for VOCs.

Chemical Analysis

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

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Jim Todaro
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and were Alpha Analytical of Westborough, Massachusetts
Chemical Analytical Methods	Soil analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Groundwater analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Soil vapor analytical methods: • VOCs by EPA Method TO-15.

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 4A through 4E, Tables 5A through 5E, and Table 6, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix E.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Stratigraphy

Three distinct geologic strata were encountered at the Site between land surface (sidewalk grade) and a maximum depth of 15 feet. These strata include from land surface downward:

- Fill material, commonly referred to as "historic fill", which is present across most of the Site with a thickness that ranges from approximately 1 to 4 feet.
- A brown sand and silt strata with trace amounts of gravel, underlies the "historic fill" strata and extends downward with a thickness of approximately 10 to 13 feet.
- A brown clayey silt strata, underlies the sand and silt strata and extends downward to the maximum depth of borings drilled at the Site.

Hydrogeology

A table of water level data for all monitoring wells is included in Table 2. The average depth to groundwater is 6.2 feet and the range in depth is 4.4 ft to 8.74 ft A map of groundwater level elevations and inferred flow lines is shown in Figure 7. Groundwater flow is from east to west.

5.2 Soil Chemistry

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. Soil/fill samples collected during the RI were compared to NYSDEC Part 375-6 Unrestricted Use (Track 1) and Restricted Residential Use (Track 2) Soil Cleanup Objectives (SCOs). A summary table of data for chemical analyses performed on soil samples is included in Table 4A through 4E. Figure 4 shows the locations and posts the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 1 UUSCOs.

A total of 21 soil samples were collected for laboratory analysis from 8 soil borings located at the Site and on the adjacent lot.

VOCs

There were no VOCs detected above their Track 1Unrestricted Use SCOs.

SVOCs

SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-c,d)pyrene] were detected at concentrations above their UUSCOs and RRSCOs in three soil

samples (SB-103, SB-105, and SB-108) collected from 0-2 ft bgs (Table 4B); chrysene and dibenz(a,h)anthracene were detected above the UUSCOs and RRSCOs from shallow fill sample SB-103 and SB-105 collected from 0 to 2 ft bgs; benzo(k)fluoranthene was detected above its UUSCO but below the RRSCO in two samples (SB-103 and SB-105) at 0 to 2 ft bgs and chrysene was detected above its UUSCO, but below its RRSCO in sample SB-108, 0-2 ft bgs. Overall, the SVOCs exceedances were observed from the shallow fill soil (0-2 ft bgs). There were no SVOCs exceedance in the intermediate or deep soil samples (4-12 ft bgs) tested. Soil boring SB-103 has the greatest SVOC exceedances, where the concentrations are: benzo[a]anthracene (9,200 µg/kg), benzo[a]pyrene (8,400 µg/kg), benzo[b]fluoranthene (11,000 µg/kg), benzo[k]fluoranthene (3,400 µg/kg), chrysene (9,800 µg/kg), dibenzo[a,h]anthracene (1,300 µg/kg), and indeno[1,2,3-cd]pyrene (5,600 µg/kg). Bis(2-ethylhexyl) phthalate was detected at SB-101, SB-103, SB-104, and SB-108 with the maximum of 2,000 µg/kg at SB-101. These DEHP results were below the Residential Supplemental SCO level. Di-n-octyl phthalate was not detected in any of the soil samples on the site. Bis(2-ethylhexyl) phthalate and Di-n-octyl phthalate have been detected in contaminated soil and groundwater beneath the NuHart manufacturing buildings to the west (Registry site), however, on-going monitoring at the site shows no indication that the low-level soil contamination identified on Lot 57 is associated with those source areas.

Metals

Five metals (barium, lead, copper, mercury, and zinc) were detected above Track 1 UUSCOs. Only barium and lead were detected above the RRSCOs. Specifically, lead was detected above RRSCOs in samples SB-105 (2,500 mg/kg) and SB-108 (680 mg/kg) (Table 4C). Barium was detected above RRSCOs in sample SB-105 (490 mg/kg). All the metal exceedances were observed from samples collected from shallow level soil at 0 to 2 ft bgs. SB-102 (10-12 ft bgs) collected from the offsite adjacent lot have metals above UUSCO for copper (67 mg/kg), lead (200 mg/kg),) and zinc (230 mg/kg).

PCBs

There were no exceedances of the SCO for total PCBs at the Site.

Pesticides

There were no exceedances of the RRSCO for pesticides at the Site. P,P'-DDD and P,P'-DDE were detected slightly above the UUSCOs at 4.27 µg/kg and 3.54 µg/kg in the intermediate soil sample SB-101 (5 to 7 ft bgs).P,P'-DDE and P,P'-DDT were detected at 17.9 µg/kg and 77 µg/kg at shallow level soil SB-105 (0-2 ft bls). P,P'-DDD was also detected above the UUSCOs (7.9 µg/kg) at SB-108 (0-2 ft bls).

Overall, the findings are consistent with observations for readily available public documents from other historic fill sites in NYC and did not indicate an an on-Site release of hazardous substances.

5.3 Groundwater Chemistry

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Table 5A through 5E. Figure 5 shows the location and posts the values for groundwater that exceed the NYSDEC Ambient Water-Quality Standards and Guidance Values (AWQSGVs).

VOCs

There were no VOCs detected at concentrations that exceed NYSDEC AWQSGVs.

SVOCs

Two out of the five morning wells contained SVOCs detections exceeding AWQSGVs. Specifically, phenol (3.5µg/L) was found exceeding AWQSGVs in the onsite monitoring well MW-104. Other SVOCs exceedances were observed from offsite monitoring well MW-102 (located within the Nuhart Registry site property, on adjacent Lot 17 to the west), where benzo[a]anthracene (0.11 µg/L), benzo[a]pyrene (0.11 µg/L), benzo[b]fluoranthene (0.15 µg/L), benzo[k]fluoranthene (0.06 µg/L), chrysene (0.1 µg/L), and indeno[1,2,3-cd]pyrene (0.08 µg/L) were detected. The SVOC concentrations detected above the AWQSGVs were reported as estimated by the laboratory. The exceedances of NYSDEC AWQSGVs for the groundwater samples are shown on Figure 5. Bis(2-ethylhexyl) phthalate was detected at 3.9 µg/L in MW-103 and 4.7 µg/L in MW-104, both detected concentrations are below the NYSDEC AWQSGV of 5 µg/L. Di-n-octyl phthalate was not detected in any of the groundwater samples on the site.

Bis(2-ethylhexyl) phthalate and Di-n-octyl phthalate have been detected in the phthalate plume beneath the Nuhart Registry site to the west, however, on-going monitoring at the site shows no indication that the low-level groundwater contamination identified on Lot 57 are associated with the plume.

Metals (Total)

Groundwater samples collected from the five wells and analyzed contained one or more metals at total concentrations (not filtered) that exceed the NYSDEC AWQSGVs. Iron and selenium were detected above the AWQSGVs in four of the monitoring wells (MW-101, MW-102, MW-103, and MW-105), with the greatest concentrations of 43.9 μg/L and 0.044 μg/L, respectively. Manganese was detected above the AWQSGVs ranging from 0.34 μg/L at MW-101 to 1.08 μg/L at MW-102. Antimony was detected as exceeding its AWQSGV in MW-103 at 0.00378 μg/L. Other metal exceedances were also observed from the offsite monitoring well MW-102 including: arsenic (0.05676 μg/L), chromium (0.0727 μg/L). lead (1.901 μg/L), mercury (0.00175 μg/L), and thallium (0.00056 μg/L).

Most of these exceedances are not considered to be indicative of groundwater quality at the Site, but rather reflect the presence of sediment within the groundwater sample. The concentrations of dissolved metals, which better reflect the groundwater quality at the Site, are discussed below. The exceedances of NYSDEC AWQSGVs for the groundwater samples are shown on Figure 5.

Metals (Dissolved)

Dissolved metals were observed around or slightly above their NYSDEC AWQSGVs. Specifically, antimony ranged from 0.0031 μg/L at MW-104 to 0.0036 μg/L at MW-103. Iron was detected in MW-101 at 0.338 μg/L. Selenium ranged from 0.017 μg/L at MW-101 to 0.043 μg/L at MW-103. For the offsite monitoring well MW-102,lead was detected at 0.0255 μg/L.and Manganese was detected at 0.3949 μg/L. These exceedances of the NYSDEC AWQSGVs for the groundwater samples are shown on Figure 5.

PCBs

PCBs were not detected at concentrations that exceed NYSDEC AWQSGVs.

Pesticides

Pesticides were not detected at concentrations that exceed NYSDEC AWQSGVs.

5.4 Soil Vapor Chemistry

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 6.

Figure 6 shows the location and posts the values for soil vapor samples with detected concentrations.

Approximately 26 petroleum-related and chlorinated VOCs were detected above method detection limits within the seven soil vapor samples collected. Soil vapor results were compared with NYS DOH Final Guidance on Soil Vapor Intrusion (October 2006) values. Low concentrations of petroleum-related VOCs were detected in each of the seven soil vapor samples (Table 6). Benzene detections ranged from 0.783 to 2.67 micrograms per cubic meter ($\mu g/m^3$), with the maximum detection at SV-205. Ethylbenzene detections ranged from 0.877 to 2.76 $\mu g/m^3$, with the maximum detection at SV-202. Toluene detections ranged from 1.05 to 4.03 $\mu g/m^3$, with the maximum detection at SV-205. Total xylenes detections ranged from 2.91 to 12.93 $\mu g/m^3$, with the maximum detection at SV-202. The highest concentration detected was 54.5 $\mu g/m^3$ of carbon disulfide detected at SV-204.

Regulatory guidance on soil vapor and indoor air quality is presented in Matrix 1 and Matrix 2 from the NYSDOH Center for Environmental Health (CEH) Bureau of Environmental Exposure Investigation (BEEI) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006. Matrix 1 addresses TCE, carbon tetrachloride, and vinyl chloride, and Matrix 2 addresses 1,1-DCE, cis-1,2-DCE, PCE and 1,1,1-TCA. The matrices establish the conditions that require a response (i.e., monitoring, mitigation, or source identification) based on an evaluation of indoor air concentrations and sub-slab vapor concentrations. While the matrices are designed for evaluation of sub-slab and indoor samples and not for pre-development soil vapor sampling, a comparison of analytical results to these standards was done.

Carbon tetrachloride was detected in the indoor air sample and the outdoor air samples, with a maximum concentration of 0.377 $\mu g/m^3$ in each of the samples (IA-301, OA-302, OA-303). PCE was not detected in any of the soil vapor samples. PCE was detected in the indoor air

sample and the outdoor air samples, with a maximum concentration of 0.224 μg/m^3 in OA-303. TCE was not detected in any of the samples collected at the Site. 1,1,1-TCA was detected in one of the soil vapor samples at a concentration of 1.42 μg/m^3 in SV-201. Cis-1,2-DCE, 1,1-DCE, and vinyl chloride were not detected in any soil vapor, indoor air, or outdoor air samples during this RI. The soil vapor survey does not indicate impacts from the TCE plume beneath neighboring areas of the factory building to the west (Registry site). Based on the VOC concentrations detected and the NYSDOH decision matricies, no further action would be required. Impacts on soil, groundwater and soil vapor from petroleum and chlorinated VOCs have been previously characterized to the west and northwest beneath other areas of the factory building.

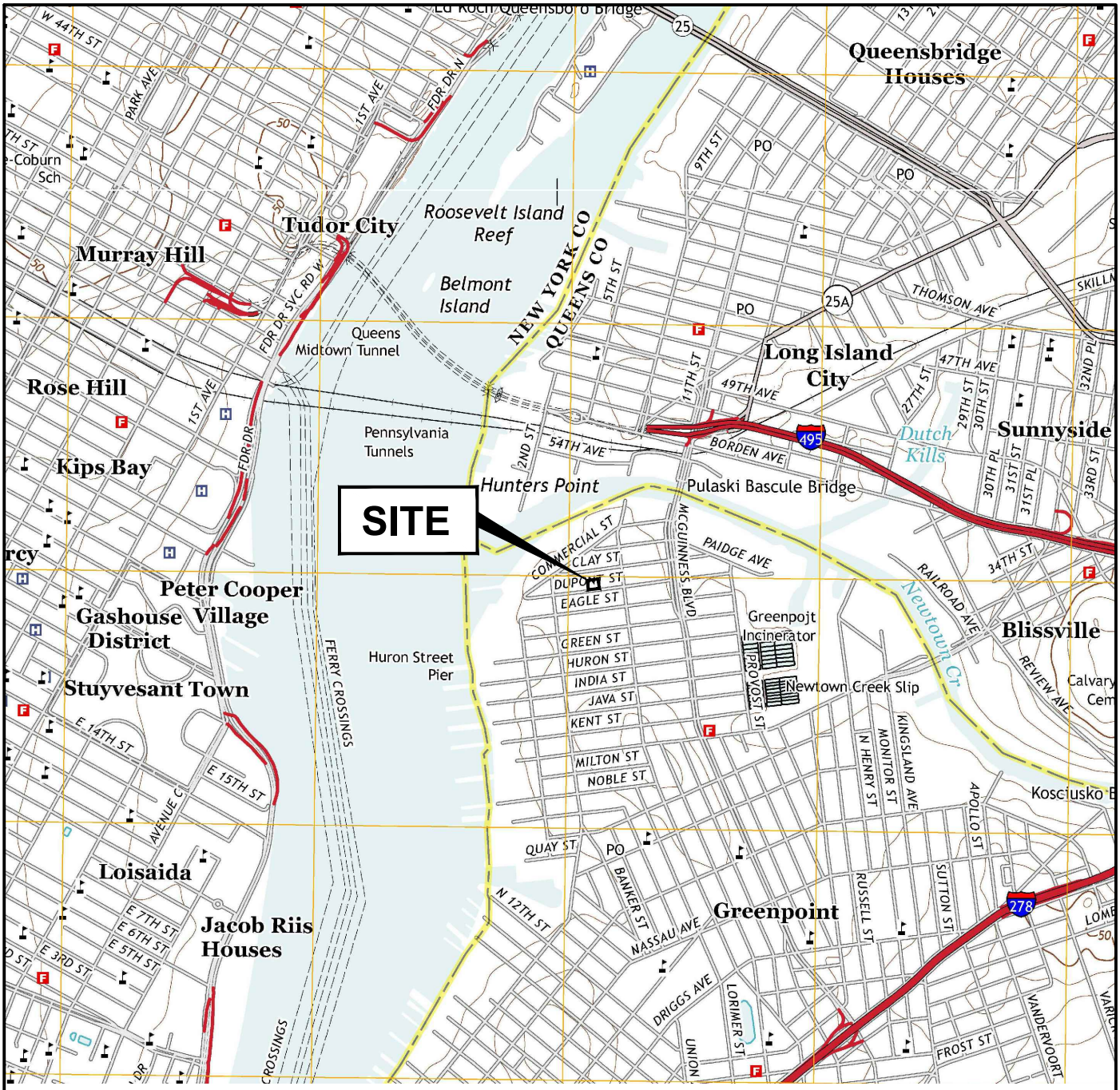
5.5 Prior Activity

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

The SVOCs and metals detected are consistent with historic fill, which matches the soil lithology observed during boring.

5.6 Impediments to Remedial Action

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



0 1000' 2000' 4000'

SCALE IN FEET 1" = 2000'

NEW YORK

□UADRANGLE LOCATION

SOURCE:

BASE MAP FROM THE FOLLOWING USGS QUADRANGLE MAP:
CENTRAL PARK, NY–NJ (2013) & FLUSHING, NY (2016)

DIGITAL TOPOGRAPHIC MAPS PROVIDED BY USGSSTORE.GOV.

CONTOUR ELEVATIONS REFERENCE NAVD 88,
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BROOKLYN, NEW YORK

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GZA GeoEnvironmental of NY
Engineers and Scientists
www.gza.com

PREPARED FOR:
DUPONT STREET
DEVELOPERS, LLC

□ITE LO□ATION MAP

PROJ MGR: JB	REVIEWED BY: ZS	CHECKED BY: JB	FIGURE 1
DESIGNED BY: ZS	DRAWN BY: EM	SCALE: 1" = 2000'	
DATE: OCTOBER, 2016	PROJECT NO. 12.0076485.00	REVISION NO.	SHEET NO.

© 2016 – GZA GeoEnvironmental, Inc. GZA–J:\76400'S\12.0076485.00\FIGURES\CAD\TASK–6\76485.00.06.001.DWG FIG–1 SEPTEMBER 22, 2016 MIGUEL TORRES

0 100' 200' 400'

SCALE IN FEET 1" = 200'

NEW YORK

□UADRANGLE LOCATION

SOURCE:
DIGITAL AERIAL ORTHOPHOTOGRAPHY PROVIDED BY AUTODESK. ORTHOPHOTO IMAGES WERE ORIGINALLY PRODUCED BY BING AERIALS. THE IMAGES WERE OBTAINED ON SEPTEMBER 22, 2016.

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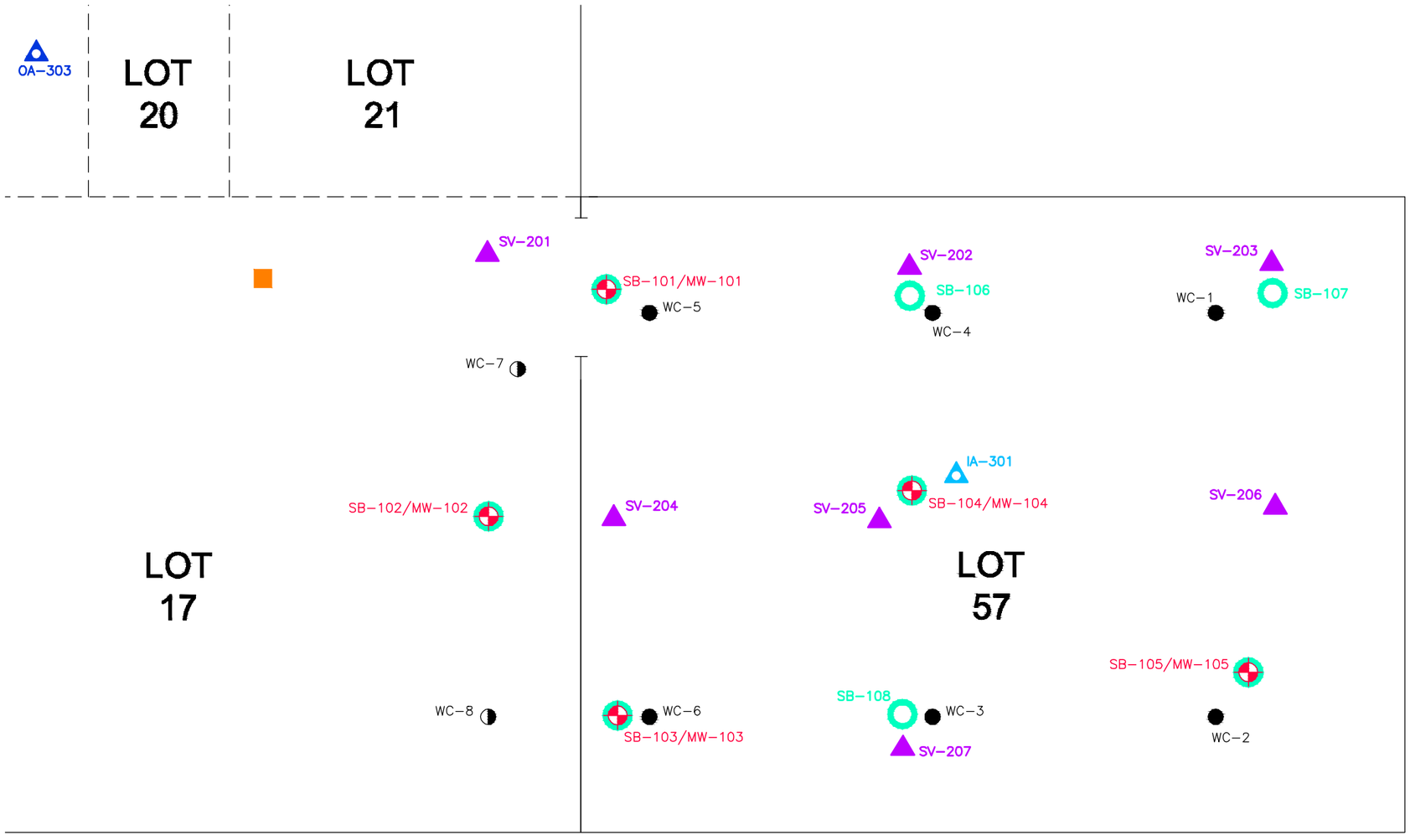
LOT □□ □ITE LO□ ATION

PROJ MGR: JB	REVIEWED BY: ZS	CHECKED BY: JB	FIGURE 2
DESIGNED BY: ZS	DRAWN BY: EM	SCALE: 1" = 2000'	
DATE: OCTOBER, 2016	PROJECT NO. 12.0076485.00	REVISION NO.	SHEET NO.

© 2016 – GZA GeoEnvironmental, Inc. GZA–J:\76400'S\12.0076485.00\FIGURES\CAD\TASK–6\76485.00.06.001.DWG FIG–2 SEPTEMBER 22, 2016 MIGUEL TORRES



LEGEND

WC–1	LOCATION AND DESIGNATION OF SOIL BORING
WC–8	LOCATION AND DESIGNATION COMPOSITE BORING
SB–101/ MW–101	LOCATION AND DESIGNATION OF INSTALLED TEMPORARY MONITORING WELL
SB–106	LOCATION AND DESIGNATION OF INSTALLED SOIL SAMPLE
SV–201	LOCATION AND DESIGNATION OF INSTALLED SOIL VAPOR SAMPLE
IA–301	LOCATION AND DESIGNATION OF INSTALLED INDOOR AIR SAMPLE
OA–301	LOCATION AND DESIGNATION OF INSTALLED OUTDOOR AIR SAMPLE
	LOCATION OF INSTALLED AIR MONITORING STATION

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SCALE IN FEET 1" = 20'

NO.	ISSUE/DESCRIPTION	BY	DATE

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□AMPLE LO□ATION MAP

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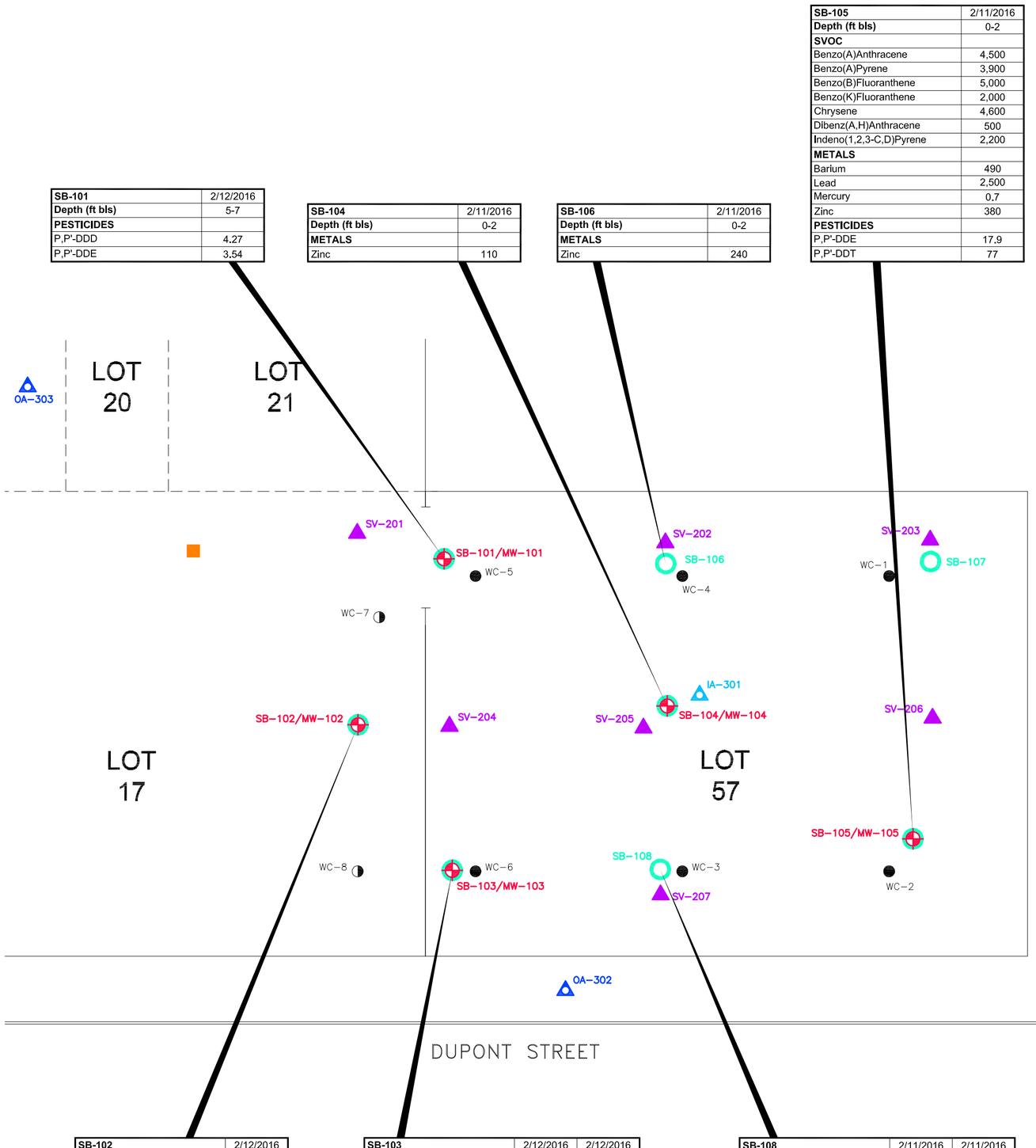
PROJ MGR: JB	REVIEWED BY: ZS	CHECKED BY: JB	FIGURE 3
DESIGNED BY: ZS	DRAWN BY: EM	SCALE: 1" = 20'	
DATE: OCTOBER, 2016	PROJECT NO. 12.0076485.00	REVISION NO.	SHEET NO.

©2016 – GZA GeoEnvironmental, Inc. G:\ZA–J:\76400'S\12.0076485.00\FIGURES\CAD\TASK–6\76485.00.06.001.DWG FIG–3 OCTOBER 6, 2016 MIGUEL TORRES



SB-101	2/12/2016
Depth (ft bls)	5-7
PESTICIDES	
P,P'-DDD	4.27
P,P'-DDE	3.54

SB-104	2/11/2016
Depth (ft bls)	0-2
METALS	
Zinc	110

SB-106	2/11/2016
Depth (ft bls)	0-2
METALS	
Zinc	240

SB-105	2/11/2016
Depth (ft bls)	0-2
SVOC	
Benzo(A)Anthracene	4,500
Benzo(A)Pyrene	3,900
Benzo(B)Fluoranthene	5,000
Benzo(K)Fluoranthene	2,000
Chrysene	4,600
Dibenz(A,H)Anthracene	500
Indeno(1,2,3-C,D)Pyrene	2,200
METALS	
Barium	490
Lead	2,500
Mercury	0.7
Zinc	380
PESTICIDES	
P,P'-DDE	17.9
P,P'-DDT	77

LEGEND

- WC-1 — LOCATION AND DESIGNATION OF SOIL BORING
- WC-8 — LOCATION AND DESIGNATION COMPOSITE BORING
- SB-101/MW-101 — LOCATION AND DESIGNATION OF INSTALLED TEMPORARY MONITORING WELL
- SB-106 — LOCATION AND DESIGNATION OF INSTALLED SOIL SAMPLE
- SV-201 — LOCATION AND DESIGNATION OF INSTALLED SOIL VAPOR SAMPLE
- IA-301 — LOCATION AND DESIGNATION OF INSTALLED INDOOR AIR SAMPLE
- OA-301 — LOCATION AND DESIGNATION OF INSTALLED OUTDOOR AIR SAMPLE
- LOCATION OF INSTALLED AIR MONITORING STATION

Parameter	Standards*	Standards**
SVOC		
Benzo(A)Anthracene	1,000	1,000
Benzo(A)Pyrene	1,000	1,000
Benzo(B)Fluoranthene	1,000	1,000
Benzo(K)Fluoranthene	800	3,900
Chrysene	1,000	3,900
Dibenz(A,H)Anthracene	330	330
Indeno(1,2,3-C,D)Pyrene	500	500
METALS		
Barium	350	400
Copper	50	270
Lead	63	400
Mercury	0.18	0.81
Zinc	109	10,000
PESTICIDES		
P,P'-DDE	3.3	8,900
P,P'-DDT	3.3	7,900

mg/kg – MILLIGRAMS PER KILOGRAM

µg/kg – MICROGRAMS PER KILOGRAM

* – NYSDEC PART 375 UNRESTRICTED USE STANDARDS

** – NYSDEC PART 375 RESTRICTED RESIDENTIAL STANDARDS

NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

-- – NOT DETECTED ABOVE NYSDEC PART 375 UNRESTRICTED USE STANDARDS

J – ESTIMATED VALUE

DUP – DUPLICATE SAMPLE

SVOCS – SEMIVOLATILE ORGANIC COMPOUNDS

NE – NO EXCEEDANCE

FT BLS – FEET BELOW LAND SURFACE

SB-102	2/12/2016
Depth (ft bls)	10-12
METALS	
Copper	67
Lead	200
Zinc	230

SB-103	2/12/2016	2/12/2016
Depth (ft bls)	0-2	4-6
SVOC		
Benzo(A)Anthracene	9,200	NE
Benzo(A)Pyrene	8,400	NE
Benzo(B)Fluoranthene	11,000	NE
Benzo(K)Fluoranthene	3,400	NE
Chrysene	9,800	NE
Dibenz(A,H)Anthracene	1,300	NE
Indeno(1,2,3-C,D)Pyrene	5,600	NE
METALS		
Lead	160	NE
Mercury	0.27	0.22

SB-108	2/11/2016	2/11/2016
Depth (ft bls)	0-2	0-2 DUP
SVOC		
Benzo(A)Anthracene	1,100	1,300
Benzo(A)Pyrene	NE	1,200
Benzo(B)Fluoranthene	1,500	1,600
Chrysene	1,200	1,400
Indeno(1,2,3-C,D)Pyrene	690	800
METALS		
Copper	NE	120
Lead	230	680
Mercury	0.28	0.26
Zinc	220	240
PESTICIDES		
P,P'-DDD	NE	7.9

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0 10' 20' 40' 60'

SCALE IN FEET 1" = 20'

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SOIL CHEMISTRY RESULTS

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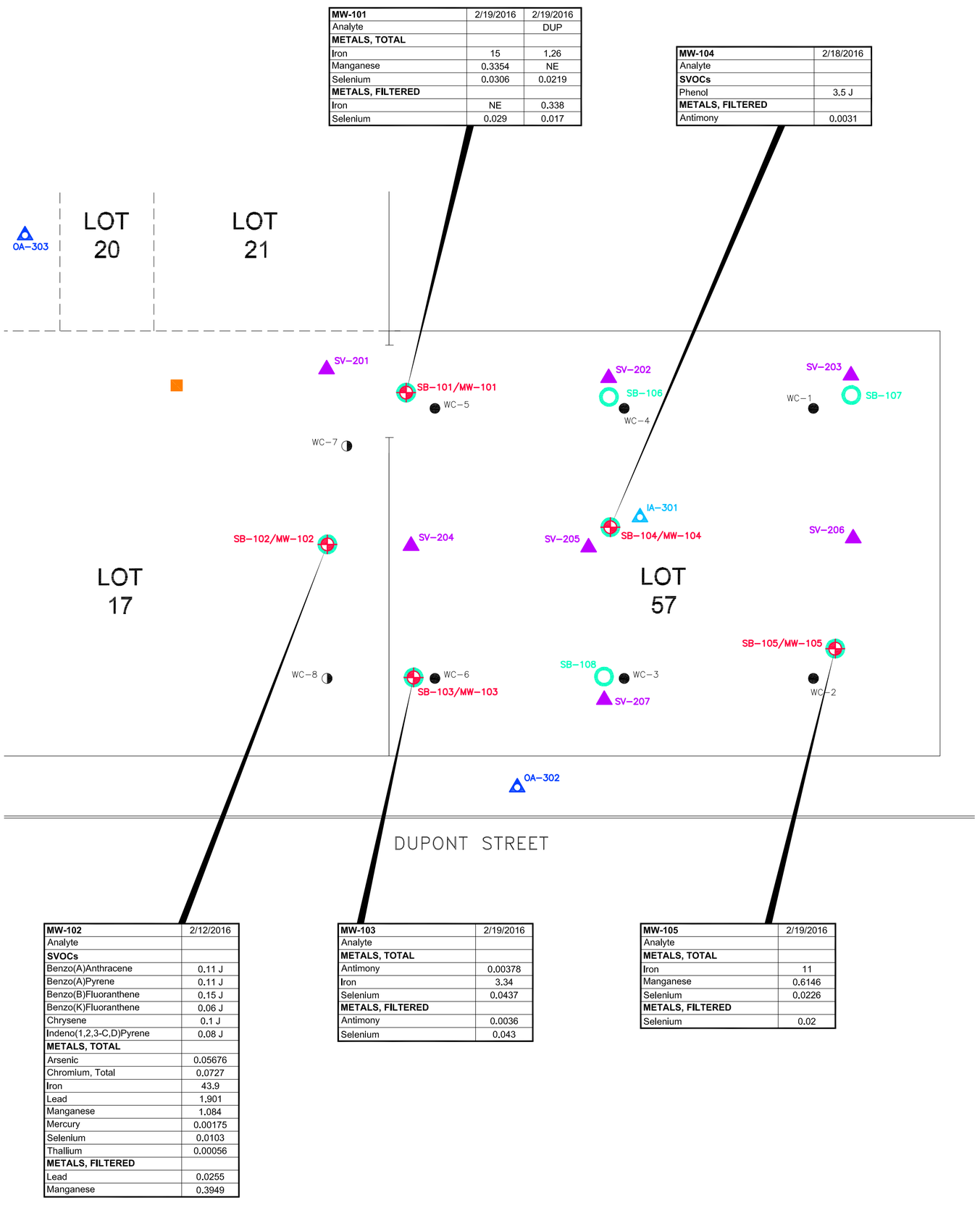
Engineers and Scientists
www.gza.com

PREPARED FOR:
DUPONT STREET DEVELOPERS, LLC

PROJ MGR: JB	REVIEWED BY: ZS	CHECKED BY: JB	FIGURE
DESIGNED BY: ZS	DRAWN BY: EM	SCALE: 1" = 20'	4
DATE: OCTOBER, 2016	PROJECT NO. 12.0076485.00	REVISION NO.	SHEET NO.

©2011 – GZA GeoEnvironmental, Inc. G:\ZA–J:\76400's\12.0076485.00\Figures\CAD\TASK–6\76485.00.06.001.dwg [FIG–4] October 06, 2016 – 1:04pm miguel.torres



MW-101	2/19/2016	2/19/2016
Analyte		DUP
METALS, TOTAL		
Iron	15	1.26
Manganese	0.3354	NE
Selenium	0.0306	0.0219
METALS, FILTERED		
Iron	NE	0.338
Selenium	0.029	0.017

MW-104	2/18/2016
Analyte	
SVOCs	
Phenol	3.5 J
METALS, FILTERED	
Antimony	0.0031

MW-102	2/12/2016
Analyte	
SVOCs	
Benzo(A)Anthracene	0.11 J
Benzo(A)Pyrene	0.11 J
Benzo(B)Fluoranthene	0.15 J
Benzo(K)Fluoranthene	0.06 J
Chrysene	0.1 J
Indeno(1,2,3-C,D)Pyrene	0.08 J
METALS, TOTAL	
Arsenic	0.05676
Chromium, Total	0.0727
Iron	43.9
Lead	1.901
Manganese	1.084
Mercury	0.00175
Selenium	0.0103
Thallium	0.00056
METALS, FILTERED	
Lead	0.0255
Manganese	0.3949

MW-103	2/19/2016
Analyte	
METALS, TOTAL	
Antimony	0.00378
Iron	3.34
Selenium	0.0437
METALS, FILTERED	
Antimony	0.0036
Selenium	0.043

MW-105	2/19/2016
Analyte	
METALS, TOTAL	
Iron	11
Manganese	0.6146
Selenium	0.0226
METALS, FILTERED	
Selenium	0.02

LEGEND

- WC–1 — LOCATION AND DESIGNATION OF SOIL BORING
- WC–8 — LOCATION AND DESIGNATION COMPOSITE BORING
- SB–101/MW–101 — LOCATION AND DESIGNATION OF INSTALLED TEMPORARY MONITORING WELL
- SB–106 — LOCATION AND DESIGNATION OF INSTALLED SOIL SAMPLE
- SV–201 — LOCATION AND DESIGNATION OF INSTALLED SOIL VAPOR SAMPLE
- IA–301 — LOCATION AND DESIGNATION OF INSTALLED INDOOR AIR SAMPLE
- OA–301 — LOCATION AND DESIGNATION OF INSTALLED OUTDOOR AIR SAMPLE
- LOCATION OF INSTALLED AIR MONITORING STATION

Parameter	Standards*
VOCs	NE
SVOCs	
Benzo(A)Anthracene	0.002
Benzo(A)Pyrene	0
Benzo(B)Fluoranthene	0.002
Benzo(K)Fluoranthene	0.002
Chrysene	0.002
Indeno(1,2,3-C,D)Pyrene	0.002
Phenol	1
METALS, TOTAL	
Antimony	0.003
Arsenic	0.025
Chromium, Total	0.05
Iron	0.3
Lead	0.025
Manganese	0.3
Mercury	0.0007
Selenium	0.01
Thallium	0.0005
METALS, FILTERED	
Antimony	0.003
Iron	0.3
Lead	0.025
Manganese	0.3
Selenium	0.01
PCBs	NE
Pesticides	NE

CONCENTRATIONS IN µg/L

µg/L – MICROGRAMS PER LITER

* – NYSDEC AWQSGVS

NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

AWQSGVS – AMBIENT WATER–QUALITY STANDARDS AND GUIDANCE VALUES

– – NOT DETECTED ABOVE NYSDEC AWQSGV

J – ESTIMATED VALUE

DUP – DUPLICATE SAMPLE

VOCS – VOLATILE ORGANIC COMPOUNDS

SVOCS – SEMIVOLATILE ORGANIC COMPOUNDS

PCBS – POLYCHLORINATED BIPHENYLS

NE – NO EXCEEDANCES

N W E S

0 10' 20' 40' 60'

SCALE IN FEET 1" = 20'

NO.	ISSUE/DESCRIPTION	BY	DATE

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93 DUPONT STREET
BROOKLYN, NEW YORK

GROUNDWATER CHEMISTRY RESULTS

PREPARED BY:
GZA GeoEnvironmental of NY
Engineers and Scientists
www.gza.com

PREPARED FOR:
DUPONT STREET DEVELOPERS, LLC

PROJ MGR: JB	REVIEWED BY: ZS	CHECKED BY: JB	FIGURE
DESIGNED BY: ZS	DRAWN BY: EM	SCALE: 1" = 20'	5
DATE: OCTOBER, 2016	PROJECT NO. 12.0076485.00	REVISION NO.	SHEET NO.

©2011 – GZA GeoEnvironmental, Inc. G:\ZA–J:\76400's\12.0076485.00\Figures\CAD\TASK–6\76485.00.06.001.dwg [FIG–5] October 06, 2016 – 1:05pm miguel.torres

SV-205 Analyte VOCs	2/18/2016
1,2,4-Trimethylbenzene	1.29
Acetone	24.7
Benzene	2.67
Carbon Disulfide	3.21
Dichlorodifluoromethane	1.34
Ethanol	18.1
Ethylbenzene	1.94
m,p-Xylene	7.56
Methyl Ethyl Ketone (2-Butanone)	2.07
N-Hexane	0.955
O-Xylene (1,2-Dimethylbenzene)	3.12
Tert-Butyl Alcohol	3.76
Toluene	4.03

SV-202 Analyte VOCs	2/18/2016
1,3-Butadiene	1.21
1,4-Dichlorobenzene	2.9
Acetone	4.94
Benzene	1.97
Carbon Disulfide	13.1
Chloroform	2.61
Ethylbenzene	2.76
m,p-Xylene	8.86
Methyl Ethyl Ketone (2-Butanone)	2.4
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	3.54
N-Heptane	1.89
N-Hexane	4.86
O-Xylene (1,2-Dimethylbenzene)	4.07
Toluene	1.57

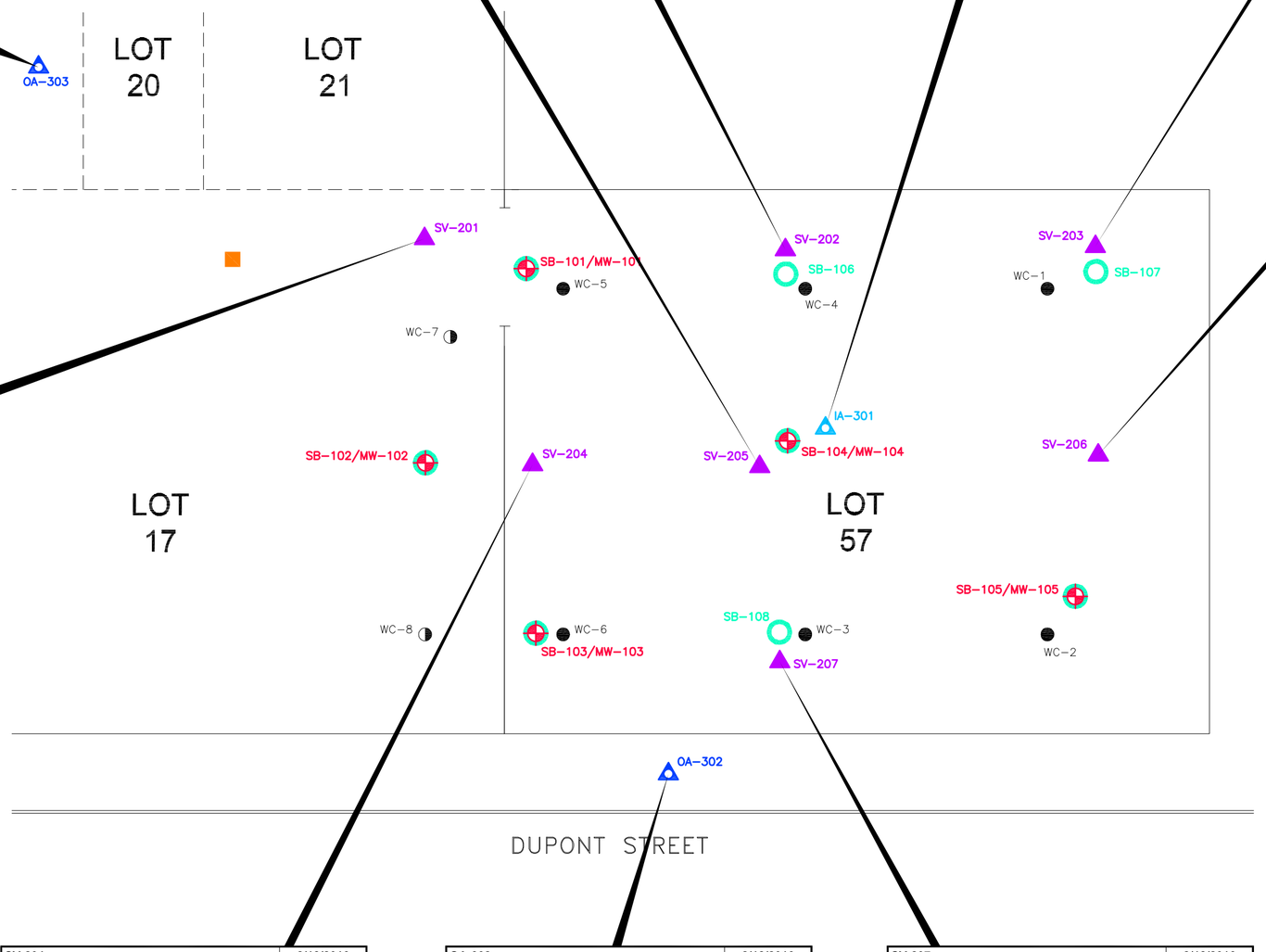
IA-301 Analyte VOCs	2/18/2016
Acetone	4.3
Carbon Tetrachloride	0.377
Chloromethane	1.02
Dichlorodifluoromethane	2.25
Tetrachloroethylene (PCE)	0.197
Trichlorofluoromethane	1.24

SV-203 Analyte VOCs	2/18/2016
1,4-Dichlorobenzene	2.54
Acetone	5.8
Carbon Disulfide	0.797
Chloroform	10.8
Dichlorodifluoromethane	1.56
m,p-Xylene	1.94
Methyl Ethyl Ketone (2-Butanone)	1.83
O-Xylene (1,2-Dimethylbenzene)	0.969
Trichlorofluoromethane	1.24

SV-206 Analyte VOCs	2/18/2016
1,4-Dichlorobenzene	2.86
Acetone	13.9
Benzene	0.907
Carbon Disulfide	7.32
Dichlorodifluoromethane	1.16
Ethylbenzene	0.934
m,p-Xylene	2.83
Methyl Ethyl Ketone (2-Butanone)	2.73
Methylene Chloride	3.58
N-Heptane	1.77
N-Hexane	5.89
O-Xylene (1,2-Dimethylbenzene)	1.56
Toluene	1.05
Trichlorofluoromethane	1.25

OA-303 Analyte VOCs	2/18/2016
Acetone	3.16
Carbon Tetrachloride	0.377
Chloromethane	0.964
Dichlorodifluoromethane	2.2
Tetrachloroethylene (PCE)	0.224
Trichlorofluoromethane	1.24

SV-201 Analyte VOCs	2/18/2016
1,1,1-Trichloroethane	1.42
Acetone	15.3
Benzene	0.843
Carbon Disulfide	5.17
Chloroform	15.1
Chloromethane	0.597
Cyclohexane	0.85
Dichlorodifluoromethane	1.14
Ethylbenzene	0.877
m,p-Xylene	3.51
Methyl Ethyl Ketone (2-Butanone)	2.78
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	2.14
N-Heptane	1.05
O-Xylene (1,2-Dimethylbenzene)	1.74
Tert-Butyl Alcohol	2.45
Tetrahydrofuran	1.64
Toluene	3.09



SV-204 Analyte VOCs	2/18/2016
1,2,4-Trimethylbenzene	1.29
Acetone	23.8
Carbon Disulfide	54.5
Chloromethane	0.417
Ethanol	20.3
Ethyl Acetate	2.21
Ethylbenzene	1.33
Isopropanol	1.36
m,p-Xylene	6.3
Methyl Ethyl Ketone (2-Butanone)	3.42
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	2.68
N-Hexane	0.867
O-Xylene (1,2-Dimethylbenzene)	2.47
Tert-Butyl Alcohol	6.43
Toluene	2.31
Trichlorofluoromethane	1.24

OA-302 Analyte VOCs	2/18/2016
Acetone	3.61
Carbon Tetrachloride	0.377
Chloromethane	0.927
Dichlorodifluoromethane	2.48
Tetrachloroethylene (PCE)	0.142
Trichlorofluoromethane	1.21

SV-207 Analyte VOCs	2/18/2016
1,4-Dichlorobenzene	3.18
Acetone	8.01
Benzene	0.783
Carbon Disulfide	9.68
Dichlorodifluoromethane	1.14
Ethylbenzene	1.36
m,p-Xylene	5.08
N-Heptane	0.971
N-Hexane	2.4
O-Xylene (1,2-Dimethylbenzene)	2.89
Toluene	1.27

LEGEND

- WC-1 — LOCATION AND DESIGNATION OF SOIL BORING
- WC-8 — LOCATION AND DESIGNATION COMPOSITE BORING
- SB-101/MW-101 — LOCATION AND DESIGNATION OF INSTALLED TEMPORARY MONITORING WELL
- SB-106 — LOCATION AND DESIGNATION OF INSTALLED SOIL SAMPLE
- SV-201 — LOCATION AND DESIGNATION OF INSTALLED SOIL VAPOR SAMPLE
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- OA-301 — LOCATION AND DESIGNATION OF INSTALLED OUTDOOR AIR SAMPLE
- LOCATION OF INSTALLED AIR MONITORING STATION

NOTE

1) BASED ON THE VOC CONCENTRATIONS DETECTED AND THE NYSDOH DECISION MATRICES, NO FURTHER ACTION IS NEEDED.

CONCENTRATIONS IN $\mu g/m^3$

$\mu g/m^3$ – MICROGRAMS PER CUBIC METER

VOCs – VOLATILE ORGANIC COMPOUNDS

ND – COMPOUND WAS ANALYZED FOR BUT NOT DETECTED

D – A SECONDARY ANALYSIS AFTER DILUTION DUE TO EXCEEDANCE OF THE CALIBRATION RANGE IN THE ORIGINAL SAMPLE

N W E S

0 10' 20' 40' 60'

SCALE IN FEET 1" = 20'

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93 DUPONT STREET
BROOKLYN, NEW YORK

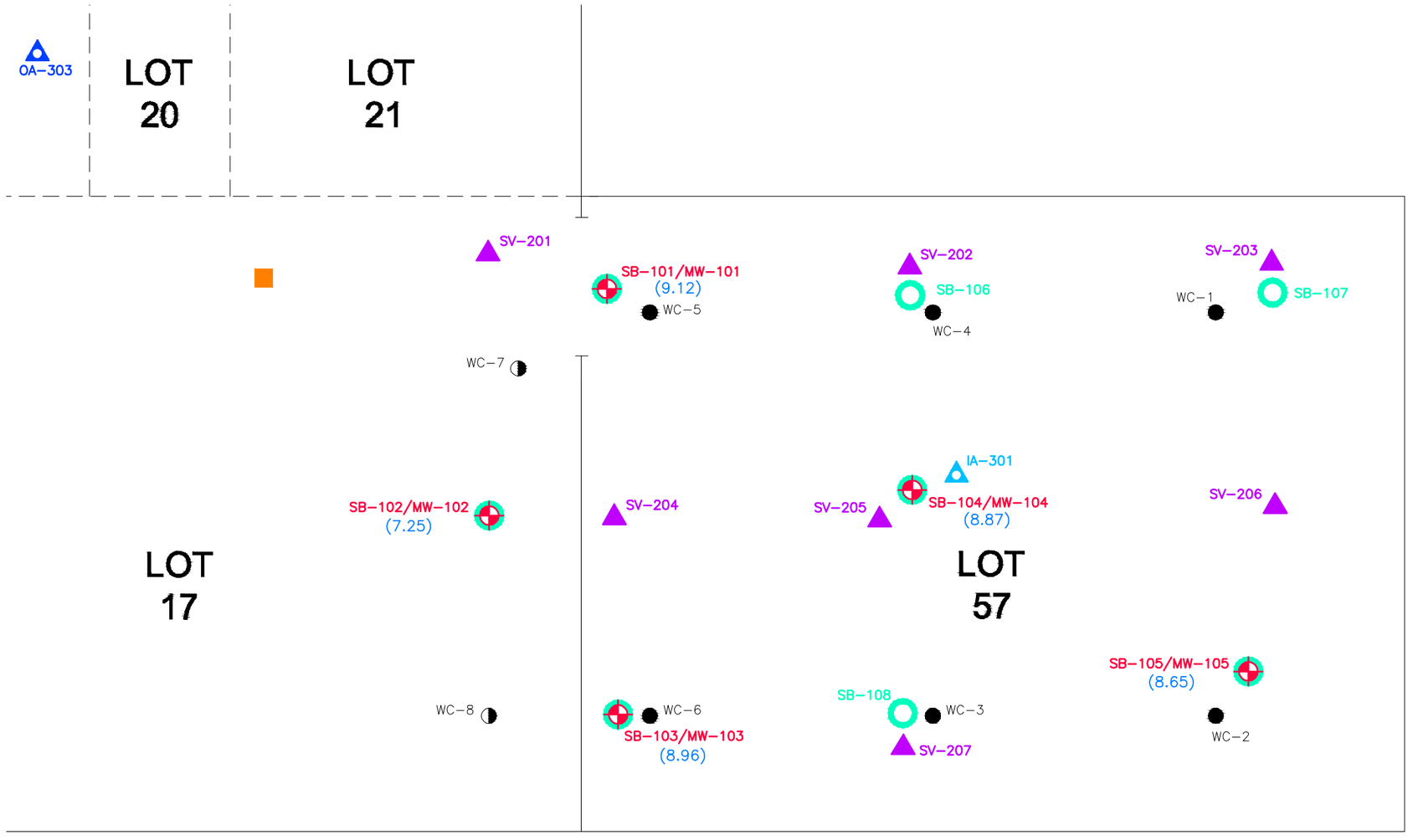
SOIL VAPOR CHEMISTRY RESULTS

PREPARED BY: GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com

PREPARED FOR: DUPONT STREET DEVELOPERS, LLC

PROJ MGR: JB	REVIEWED BY: ZS	CHECKED BY: JB	FIGURE 6
DESIGNED BY: ZS	DRAWN BY: EM	SCALE: 1" = 20'	
DATE: OCTOBER, 2016	PROJECT NO. 12.0076485.00	REVISION NO.	SHEET NO.

©2011 – GZA GeoEnvironmental, Inc. G:\ZA–L:\76400's\12.0076485.00\Figures\CAD\TASK–6\76485.00.06.001.dwg [FIG–6] October 06, 2016 – 1:10pm miguel.torres



LEGEND

WC-1 ●	LOCATION AND DESIGNATION OF SOIL BORING
WC-8 ◑	LOCATION AND DESIGNATION COMPOSITE BORING
SB-101/MW-101 ⊕	LOCATION AND DESIGNATION OF INSTALLED TEMPORARY MONITORING WELL
SB-106 ○	LOCATION AND DESIGNATION OF INSTALLED SOIL SAMPLE
SV-201 ▲	LOCATION AND DESIGNATION OF INSTALLED SOIL VAPOR SAMPLE
IA-301 △	LOCATION AND DESIGNATION OF INSTALLED INDOOR AIR SAMPLE
OA-301 △	LOCATION AND DESIGNATION OF INSTALLED OUTDOOR AIR SAMPLE
■	LOCATION OF INSTALLED AIR MONITORING STATION
(8.87)	AVERAGE GROUNDWATER ELEVATION (IN FEET)

NOTE

1) MOST RECENT GROUNDWATER ELEVATIONS WERE MEASURED ON OCTOBER 4, 2016.
2) BASED ON THE REGIONAL GROUNDWATER ELEVATION INFORMATION, THE GROUNDWATER FLOW DIRECTION IS FROM EAST TO WEST.

N
W E
S

0 10' 20' 40'

SCALE IN FEET 1" = 20'

NO.	ISSUE/DESCRIPTION	BY	DATE

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93 DUPONT STREET
BROOKLYN, NEW YORK

GROUNDWATER ELEVATION MAP

PREPARED BY: GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com		PREPARED FOR: DUPONT STREET DEVELOPERS, LLC	
PROJ MGR: JB	REVIEWED BY: ZS	CHECKED BY: JB	FIGURE 7
DESIGNED BY: ZS	DRAWN BY: EM	SCALE: 1" = 20'	
DATE: OCTOBER, 2016	PROJECT NO. 12.0076485.00	REVISION NO.	SHEET NO.

©2016 – GZA GeoEnvironmental, Inc. G:\ZA–\GZAHAM1\JOBS\76400'S\12.0076485.00\FIGURES\CAD\TASK-6\76485.00.06.001.DWG FIG-7 OCTOBER 6, 2016 ZHAN SHU

Table 1. Construction Details for Soil Borings and Monitoring Wells
93 Dupont Street
Brooklyn, New York

	Identification Number	Date of construction	Total Depth	Diameter	Ground surface elevation	Screened interval (Elevation Range)	Construction Material (PVC, steel, etc)	GPS Coordinates
Soil Borings	SB-101	2/11/2016 to 2/12/2016	15 ft	2 inches	NA	15 ft	NA	NA
	SB-102		15 ft	2 inches				
	SB-103		15 ft	2 inches				
	SB-104		15 ft	2 inches				
	SB-105		15 ft	2 inches				
	SB-106		15 ft	2 inches				
	SB-107		15 ft	2 inches				
	SB-108		15 ft	2 inches				
Monitor Wells	MW-101	2/18/2016 to 2/19/2016	10 ft	1 inch	NA	10	PVC	NA
	MW-102		10 ft	1 inch				
	MW-103		10 ft	1 inch				
	MW-104		10 ft	1 inch				
	MW-105		10 ft	1 inch				
Soil Vapor Borings	SV-101	2/18/2016	5	NA	NA	NA	Teflon-lined tubing	NA
	SV-102		5					
	SV-103		5					
	SV-104		4.5					
	SV-105		5					
	SV-106		5					
	SV-107		5					
Indoor Air Sampling	IA-301		NA				NA	
Outdoor Air Sampling	OA-302		NA				NA	
	OA-303		NA				NA	

Table 2. Summary of Groundwater Gauging Results, - 93 Dupont Street
Block 2487 Lot 57, Brooklyn, New York

Well Designation	Date Measured	Top of Casing Elevation	Depth to Water (ft)	Water Table Elevation
MW-101	2/18/2016	14.67	4.44	10.23
MW-102	2/18/2016	14.80	7.04	7.76
MW-103	2/18/2016	14.76	4.40	10.36
MW-104	2/18/2016	14.70	4.93	9.77
MW-105	2/18/2016	14.70	5.25	9.45
MW-101	2/19/2016	14.67	4.90	9.77
MW-102	2/19/2016	14.80	7.12	7.68
MW-103	2/19/2016	14.76	5.66	9.10
MW-104	2/19/2016	14.70	5.18	9.52
MW-105	2/19/2016	14.70	5.45	9.25
MW-101	3/7/2016	14.67	5.17	9.50
MW-102	3/7/2016	14.80	7.31	7.49
MW-103	3/7/2016	14.76	6.54	8.22
MW-104	3/7/2016	14.70	5.38	9.32
MW-105	3/7/2016	14.70	5.68	9.02
MW-101	10/4/2016	14.67	7.70	6.97
MW-102	10/4/2016	14.80	8.74	6.06
MW-103	10/4/2016	14.76	6.61	8.15
MW-104	10/4/2016	14.70	7.85	6.85
MW-105	10/4/2016	14.70	7.83	6.87

NOTES:
GZA gauged the wells on October 4, 2016. All the previous gauging data were provided by Roux.

Table 3. Analytical Methods Summary
93 Dupont Street
Brooklyn, New York

Matrix	Number of Samples	Analytical parameters measured	Analytical methods	Number of duplicate samples	Number and type of QA/QC samples
Soil	21 Samples from 8 Soil Borings	TCL VOCs, TCL SVOCS, PCBs, TAL Metal, Pesticides	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);	2	2 Field Blank and 2 Trip Blank
Groundwater	5 Samples from 5 Monitoring Wells	TCL VOCs, TCL SVOCS, PCBs, TAL Metal, Pesticides	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);	1	1 Field Blank and 1 Trip Blank
Soil vapor	7 Sub- slab Samples and 3 Ambient Air Samples	VOCs	TO-15 VOCs	NA	NA

Table 4A. Summary of Volatile Organic Compounds in Soil, 93 Dupont Street, Brooklyn, New York

DRAFT

Paramter	Part 375 Unrestricted Use SCO	CP-51 Residential Supplemental SCO	Part 375 Restricted Residential SCO	Units	SB-101 12 Feb 2016 0 - 2 N	SB-101 12 Feb 2016 10 - 12 N	SB-101 12 Feb 2016 5 - 7 N	SB-101 12 Feb 2016 5 - 7 FD	SB-102 12 Feb 2016 0 - 2 N	SB-102 12 Feb 2016 10 - 12 N	SB-102 12 Feb 2016 5 - 7 N	SB-103 12 Feb 2016 0 - 2 N	SB-103 12 Feb 2016 10 - 12 N	SB-103 12 Feb 2016 4 - 6 N	SB-104 11 Feb 2016 0 - 2 N	SB-104 11 Feb 2016 10 - 12 N
Sample Designation:					SB-101	SB-101	SB-101	SB-101	SB-102	SB-102	SB-102	SB-103	SB-103	SB-103	SB-104	SB-104
Date Sampled:					12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	11 Feb 2016	11 Feb 2016
Sample Depth (ft bls):					0 - 2	10 - 12	5 - 7	5 - 7	0 - 2	10 - 12	5 - 7	0 - 2	10 - 12	4 - 6	0 - 2	10 - 12
Sample Type:					N	N	N	FD	N	N	N	N	N	N	N	N
1,1,1,2-Tetrachloroethane	--	--	--	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
1,1,1-Trichloroethane	680	--	100000	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
1,1,2,2-Tetrachloroethane	--	35000	--	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
1,1,2-Trichloroethane	--	--	--	UG/KG	1.7 U	1.7 U	1.6 U	1.6 U	1.8 U	1.7 U	1.7 U	1.7 U	6.6 U	1.6 U	1.7 U	1.7 U
1,1-Dichloroethane	270	--	26000	UG/KG	1.7 U	1.7 U	1.6 U	1.6 U	1.8 U	1.7 U	1.7 U	1.7 U	6.6 U	1.6 U	1.7 U	1.7 U
1,1-Dichloroethene	330	--	100000	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
1,1-Dichloropropene	--	--	--	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
1,2,3-Trichlorobenzene	--	--	--	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
1,2,3-Trichloropropane	--	80000	--	UG/KG	12 U	11 U	10 U	11 U	12 U	11 U	11 U	12 U	44 U	11 U	11 U	11 U
1,2,4,5-Tetramethylbenzene	--	--	--	UG/KG	4.6 U	4.5 U	4.2 U	4.3 U	4.8 U	4.5 U	4.5 U	4.6 U	18 U	4.4 U	4.5 U	4.5 U
1,2,4-Trichlorobenzene	--	--	--	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
1,2,4-Trimethylbenzene	3600	--	52000	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
1,2-Dibromo-3-Chloropropane	--	--	--	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	--	UG/KG	4.6 U	4.5 U	4.2 U	4.3 U	4.8 U	4.5 U	4.5 U	4.6 U	18 U	4.4 U	4.5 U	4.5 U
1,2-Dichlorobenzene	1100	--	100000	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
1,2-Dichloroethane	20	--	3100	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
Dichloroethylenes	--	--	--	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
1,2-Dichloropropane	--	--	--	UG/KG	4 U	3.9 U	3.7 U	3.8 U	4.2 U	4 U	3.9 U	4 U	15 U	3.8 U	3.9 U	4 U
1,3,5-Trimethylbenzene (Mesitylene)	8400	--	52000	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
1,3-Dichlorobenzene	2400	--	49000	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
1,3-Dichloropropane	--	--	--	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
Total, 1,3-Dichloropropene (Cis And Trans)	--	--	--	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
1,4-Dichlorobenzene	1800	--	13000	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
1,4-Diethyl Benzene	--	--	--	UG/KG	4.6 U	4.5 U	4.2 U	4.3 U	4.8 U	4.5 U	4.5 U	4.6 U	18 U	4.4 U	4.5 U	4.5 U
1,4-Dioxane (P-Dioxane)	100	--	13000	UG/KG	120 U	110 U	100 U	110 U	120 U	110 U	110 U	120 U	440 U	110 U	110 U	110 U
2,2-Dichloropropane	--	--	--	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
Methyl Ethyl Ketone (2-Butanone)	120	100000	100000	UG/KG	12 U	11 U	10 U	11 U	12 U	11 U	11 U	12 U	44 U	11 U	11 U	11 U
2-Hexanone	--	--	--	UG/KG	12 U	11 U	10 U	11 U	12 U	11 U	11 U	12 U	44 U	11 U	11 U	11 U
4-Ethyltoluene	--	--	--	UG/KG	4.6 U	4.5 U	4.2 U	4.3 U	4.8 U	4.5 U	4.5 U	4.6 U	18 U	4.4 U	4.5 U	4.5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	--	UG/KG	12 U	11 U	10 U	11 U	12 U	11 U	11 U	12 U	44 U	11 U	11 U	11 U
Acetone	50	--	100000	UG/KG	3.6 J	16	5.2 J	10 J	2.7 J	3.4 J	2.2 J	18	22 J	13	2.8 J	11 U
Acrylonitrile	--	--	--	UG/KG	12 U	11 U	10 U	11 U	12 U	11 U	11 U	12 U	44 U	11 U	11 U	11 U
Benzene	60	--	4800	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
Bromobenzene	--	--	--	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
Bromochloromethane	--	--	--	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
Bromodichloromethane	--	--	--	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
Bromoform	--	--	--	UG/KG	4.6 U	4.5 U	4.2 U	4.3 U	4.8 U	4.5 U	4.5 U	4.6 U	18 U	4.4 U	4.5 U	4.5 U
Bromomethane	--	--	--	UG/KG	2.3 U	2.2 U	2.1 U	2.1 U	2.4 U	2.3 U	2.2 U	2.3 U	8.8 U	2.2 U	2.2 U	2.3 U
Carbon Disulfide	--	100000	--	UG/KG	12 U	11 U	10 U	11 U	12 U	11 U	11 U	12 U	44 U	11 U	11 U	11 U
Carbon Tetrachloride	760	--	2400	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
Chlorobenzene	1100	--	100000	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
Chloroethane	--	--	--	UG/KG	2.3 U	2.2 U	2.1 U	2.1 U	2.4 U	2.3 U	2.2 U	2.3 U	8.8 U	2.2 U	2.2 U	2.3 U
Chloroform	370	--	49000	UG/KG	1.7 U	1.7 U	1.6 U	1.6 U	1.8 U	1.7 U	1.7 U	1.7 U	6.6 U	1.6 U	1.7 U	1.7 U
Chloromethane	--	--	--	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
Cis-1,2-Dichloroethylene	250	--	100000	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
Cis-1,3-Dichloropropene	--	--	--	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
Dibromochloromethane	--	--	--	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
Dibromomethane	--	--	--	UG/KG	12 U	11 U	10 U	11 U	12 U	11 U	11 U	12 U	44 U	11 U	11 U	11 U

Table 4A. Summary of Volatile Organic Compounds in Soil, 93 Dupont Street, Brooklyn, New York

DRAFT

Paramter	Part 375 Unrestricted Use SCO	CP-51 Residential Supplemental SCO	Part 375 Restricted Residential SCO	Units	Sample Designation: SB-101 Date Sampled: 12 Feb 2016 Sample Depth (ft bls): 0 - 2 Sample Type: N	SB-101 12 Feb 2016 10 - 12 N	SB-101 12 Feb 2016 5 - 7 N	SB-101 12 Feb 2016 5 - 7 FD	SB-102 12 Feb 2016 0 - 2 N	SB-102 12 Feb 2016 10 - 12 N	SB-102 12 Feb 2016 5 - 7 N	SB-103 12 Feb 2016 0 - 2 N	SB-103 12 Feb 2016 10 - 12 N	SB-103 12 Feb 2016 4 - 6 N	SB-104 11 Feb 2016 0 - 2 N	SB-104 11 Feb 2016 10 - 12 N
Dichlorodifluoromethane	--	--	--	UG/KG	12 U	11 U	10 U	11 U	12 U	11 U	11 U	12 U	44 U	11 U	11 U	11 U
Diethyl Ether (Ethyl Ether)	--	--	--	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
Ethylbenzene	1000	--	41000	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
Hexachlorobutadiene	--	--	--	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
Isopropylbenzene (Cumene)	--	100000	--	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
Tert-Butyl Methyl Ether	930	--	100000	UG/KG	2.3 U	2.2 U	2.1 U	2.1 U	2.4 U	2.3 U	2.2 U	2.3 U	8.8 U	2.2 U	2.2 U	2.3 U
Methylene Chloride	50	--	100000	UG/KG	12 U	11 U	10 U	11 U	12 U	11 U	11 U	12 U	44 U	11 U	11 U	11 U
Naphthalene	12000	--	100000	UG/KG	5.8 U	5.6 U	5.2 U	0.26 J	6 U	5.6 U	5.6 U	5.8 U	22 U	0.29 J	5.6 U	5.6 U
N-Butylbenzene	12000	--	100000	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
N-Propylbenzene	3900	--	100000	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
2-Chlorotoluene	--	--	--	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
O-Xylene (1,2-Dimethylbenzene)	--	--	--	UG/KG	2.3 U	2.2 U	2.1 U	2.1 U	2.4 U	2.3 U	2.2 U	2.3 U	1.1 J	2.2 U	2.2 U	2.3 U
m,p-Xylene	--	--	--	UG/KG	2.3 U	2.2 U	2.1 U	2.1 U	2.4 U	2.3 U	2.2 U	2.3 U	2.2 J	2.2 U	2.2 U	2.3 U
4-Chlorotoluene	--	--	--	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
Cymene	--	--	--	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
Sec-Butylbenzene	11000	--	100000	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
Styrene	--	--	--	UG/KG	2.3 U	2.2 U	2.1 U	2.1 U	2.4 U	2.3 U	2.2 U	2.3 U	8.8 U	2.2 U	2.2 U	2.3 U
T-Butylbenzene	5900	--	100000	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
Tetrachloroethylene (PCE)	1300	--	19000	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
Toluene	700	--	100000	UG/KG	1.7 U	1.7 U	0.22 J	0.31 J	1.8 U	1.7 U	1.7 U	0.23 J	1.1 J	0.36 J	0.24 J	0.6 J
Trans-1,2-Dichloroethene	190	--	100000	UG/KG	1.7 U	1.7 U	1.6 U	1.6 U	1.8 U	1.7 U	1.7 U	1.7 U	6.6 U	1.6 U	1.7 U	1.7 U
Trans-1,3-Dichloropropene	--	--	--	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
Trans-1,4-Dichloro-2-Butene	--	--	--	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
Trichloroethylene (TCE)	470	--	21000	UG/KG	1.2 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	4.4 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	--	--	--	UG/KG	5.8 U	5.6 U	5.2 U	5.4 U	6 U	5.6 U	5.6 U	5.8 U	22 U	5.5 U	5.6 U	5.6 U
Vinyl Acetate	--	--	--	UG/KG	12 U	11 U	10 U	11 U	12 U	11 U	11 U	12 U	44 U	11 U	11 U	11 U
Vinyl Chloride	20	--	900	UG/KG	2.3 U	2.2 U	2.1 U	2.1 U	2.4 U	2.3 U	2.2 U	2.3 U	8.8 U	2.2 U	2.2 U	2.3 U
Xylenes	260	--	100000	UG/KG	2.3 U	2.2 U	2.1 U	2.1 U	2.4 U	2.3 U	2.2 U	2.3 U	3.3 J	2.2 U	2.2 U	2.3 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
FD - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
SCO - Soil Cleanup Objectives
SSCO - Supplemental Soil Cleanup Objectives
-- No SCO or SSCO available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use SCO
Shaded data indicates that parameter was detected above the NYSDEC CP-51 Residential SSCO
Red data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential SCO

Table 4A. Summary of Volatile Organic Compounds in Soil, 93 Dupont Street, Brooklyn, New York

DRAFT

Paramter	Part 375 Unrestricted Use SCO	CP-51 Residential Supplemental SCO	Part 375 Restricted Residential SCO	Units	Sample Designation: SB-104 Date Sampled: 11 Feb 2016 Sample Depth (ft bls): 5 - 7 Sample Type: N	SB-105 11 Feb 2016 0 - 2 N	SB-105 11 Feb 2016 10 - 12 N	SB-106 11 Feb 2016 0 - 2 N	SB-106 11 Feb 2016 10 - 12 N	SB-107 11 Feb 2016 0 - 2 N	SB-107 11 Feb 2016 10 - 12 N	SB-108 11 Feb 2016 0 - 2 N	SB-108 11 Feb 2016 0 - 2 FD	SB-108 11 Feb 2016 10 - 12 N	SB-108 11 Feb 2016 4 - 6 N
1,1,1,2-Tetrachloroethane	--	--	--	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
1,1,1-Trichloroethane	680	--	100000	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
1,1,2,2-Tetrachloroethane	--	35000	--	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
1,1,2-Trichloroethane	--	--	--	UG/KG	1.5 U	1.8 U	1.6 U	1.7 U	1.9 U	1.6 U	1.6 U	1.7 U	1.8 U	1.6 U	1.6 U
1,1-Dichloroethane	270	--	26000	UG/KG	1.5 U	1.8 U	1.6 U	1.7 U	1.9 U	1.6 U	1.6 U	1.7 U	1.8 U	1.6 U	1.6 U
1,1-Dichloroethene	330	--	100000	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
1,1-Dichloropropene	--	--	--	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
1,2,3-Trichlorobenzene	--	--	--	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
1,2,3-Trichloropropane	--	80000	--	UG/KG	10 U	12 U	10 U	12 U	12 U	11 U	11 U	11 U	12 U	11 U	11 U
1,2,4,5-Tetramethylbenzene	--	--	--	UG/KG	4 U	4.8 U	4.1 U	4.7 U	5 U	4.4 U	4.3 U	4.5 U	4.7 U	4.4 U	4.3 U
1,2,4-Trichlorobenzene	--	--	--	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
1,2,4-Trimethylbenzene	3600	--	52000	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
1,2-Dibromo-3-Chloropropane	--	--	--	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	--	UG/KG	4 U	4.8 U	4.1 U	4.7 U	5 U	4.4 U	4.3 U	4.5 U	4.7 U	4.4 U	4.3 U
1,2-Dichlorobenzene	1100	--	100000	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
1,2-Dichloroethane	20	--	3100	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
Dichloroethylenes	--	--	--	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
1,2-Dichloropropane	--	--	--	UG/KG	3.5 U	4.2 U	3.6 U	4.1 U	4.3 U	3.8 U	3.8 U	4 U	4.1 U	3.8 U	3.8 U
1,3,5-Trimethylbenzene (Mesitylene)	8400	--	52000	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
1,3-Dichlorobenzene	2400	--	49000	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
1,3-Dichloropropane	--	--	--	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
Total, 1,3-Dichloropropene (Cis And Trans)	--	--	--	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
1,4-Dichlorobenzene	1800	--	13000	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
1,4-Diethyl Benzene	--	--	--	UG/KG	4 U	4.8 U	4.1 U	4.7 U	5 U	4.4 U	4.3 U	4.5 U	4.7 U	4.4 U	4.3 U
1,4-Dioxane (P-Dioxane)	100	--	13000	UG/KG	100 U	120 U	100 U	120 U	120 U	110 U	110 U	110 U	120 U	110 U	110 U
2,2-Dichloropropane	--	--	--	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
Methyl Ethyl Ketone (2-Butanone)	120	100000	100000	UG/KG	10 U	3.5 J	10 U	12 U	12 U	11 U	11 U	11 U	1.5 J	11 U	11 U
2-Hexanone	--	--	--	UG/KG	10 U	12 U	10 U	12 U	12 U	11 U	11 U	11 U	12 U	11 U	11 U
4-Ethyltoluene	--	--	--	UG/KG	4 U	4.8 U	4.1 U	4.7 U	5 U	4.4 U	4.3 U	4.5 U	4.7 U	4.4 U	4.3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	--	UG/KG	10 U	12 U	10 U	12 U	12 U	11 U	11 U	11 U	12 U	11 U	11 U
Acetone	50	--	100000	UG/KG	3.1 J	36	4.4 J	8.1 J	2.7 J	11 U	18	3.8 J	15	1.4 J	4.3 J
Acrylonitrile	--	--	--	UG/KG	10 U	12 U	10 U	12 U	12 U	11 U	11 U	11 U	12 U	11 U	11 U
Benzene	60	--	4800	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
Bromobenzene	--	--	--	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
Bromochloromethane	--	--	--	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
Bromodichloromethane	--	--	--	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
Bromoform	--	--	--	UG/KG	4 U	4.8 U	4.1 U	4.7 U	5 U	4.4 U	4.3 U	4.5 U	4.7 U	4.4 U	4.3 U
Bromomethane	--	--	--	UG/KG	2 U	2.4 U	2.1 U	2.3 U	2.5 U	2.2 U	2.2 U	2.3 U	2.4 U	2.2 U	2.1 U
Carbon Disulfide	--	100000	--	UG/KG	10 U	12 U	10 U	12 U	12 U	11 U	11 U	11 U	12 U	11 U	11 U
Carbon Tetrachloride	760	--	2400	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
Chlorobenzene	1100	--	100000	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
Chloroethane	--	--	--	UG/KG	2 U	2.4 U	2.1 U	2.3 U	2.5 U	2.2 U	2.2 U	2.3 U	2.4 U	2.2 U	2.1 U
Chloroform	370	--	49000	UG/KG	1.5 U	1.8 U	1.6 U	1.7 U	1.9 U	1.6 U	1.6 U	1.7 U	1.8 U	1.6 U	1.6 U
Chloromethane	--	--	--	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
Cis-1,2-Dichloroethylene	250	--	100000	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
Cis-1,3-Dichloropropene	--	--	--	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
Dibromochloromethane	--	--	--	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
Dibromomethane	--	--	--	UG/KG	10 U	12 U	10 U	12 U	12 U	11 U	11 U	11 U	12 U	11 U	11 U

Table 4A. Summary of Volatile Organic Compounds in Soil, 93 Dupont Street, Brooklyn, New York

DRAFT

Paramter	Part 375 Unrestricted Use SCO	CP-51 Residential Supplemental SCO	Part 375 Restricted Residential SCO	Units	Sample Designation: SB-104 Date Sampled: 11 Feb 2016 Sample Depth (ft bls): 5 - 7 Sample Type: N	SB-105 11 Feb 2016 0 - 2 N	SB-105 11 Feb 2016 10 - 12 N	SB-106 11 Feb 2016 0 - 2 N	SB-106 11 Feb 2016 10 - 12 N	SB-107 11 Feb 2016 0 - 2 N	SB-107 11 Feb 2016 10 - 12 N	SB-108 11 Feb 2016 0 - 2 N	SB-108 11 Feb 2016 0 - 2 FD	SB-108 11 Feb 2016 10 - 12 N	SB-108 11 Feb 2016 4 - 6 N
Dichlorodifluoromethane	--	--	--	UG/KG	10 U	12 U	10 U	12 U	12 U	11 U	11 U	11 U	12 U	11 U	11 U
Diethyl Ether (Ethyl Ether)	--	--	--	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
Ethylbenzene	1000	--	41000	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
Hexachlorobutadiene	--	--	--	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
Isopropylbenzene (Cumene)	--	100000	--	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
Tert-Butyl Methyl Ether	930	--	100000	UG/KG	2 U	2.4 U	2.1 U	2.3 U	2.5 U	2.2 U	2.2 U	2.3 U	2.4 U	2.2 U	2.1 U
Methylene Chloride	50	--	100000	UG/KG	10 U	12 U	10 U	12 U	12 U	11 U	11 U	11 U	12 U	11 U	11 U
Naphthalene	12000	--	100000	UG/KG	5 U	6 U	5.2 U	5.8 U	1.3 J	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
N-Butylbenzene	12000	--	100000	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
N-Propylbenzene	3900	--	100000	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
2-Chlorotoluene	--	--	--	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
O-Xylene (1,2-Dimethylbenzene)	--	--	--	UG/KG	2 U	2.4 U	2.1 U	2.3 U	2.5 U	2.2 U	2.2 U	2.3 U	0.42 J	2.2 U	2.1 U
m,p-Xylene	--	--	--	UG/KG	2 U	2.4 U	2.1 U	2.3 U	2.5 U	2.2 U	2.2 U	2.3 U	0.86 J	2.2 U	2.1 U
4-Chlorotoluene	--	--	--	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
Cymene	--	--	--	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
Sec-Butylbenzene	11000	--	100000	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
Styrene	--	--	--	UG/KG	2 U	2.4 U	2.1 U	2.3 U	2.5 U	2.2 U	2.2 U	2.3 U	2.4 U	2.2 U	2.1 U
T-Butylbenzene	5900	--	100000	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
Tetrachloroethylene (PCE)	1300	--	19000	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
Toluene	700	--	100000	UG/KG	0.25 J	1.8 U	1.6 U	1.7 U	0.32 J	0.26 J	1.6 U	0.25 J	0.26 J	0.26 J	0.22 J
Trans-1,2-Dichloroethene	190	--	100000	UG/KG	1.5 U	1.8 U	1.6 U	1.7 U	1.9 U	1.6 U	1.6 U	1.7 U	1.8 U	1.6 U	1.6 U
Trans-1,3-Dichloropropene	--	--	--	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
Trans-1,4-Dichloro-2-Butene	--	--	--	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
Trichloroethylene (TCE)	470	--	21000	UG/KG	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
Trichlorofluoromethane	--	--	--	UG/KG	5 U	6 U	5.2 U	5.8 U	6.2 U	5.5 U	5.4 U	5.7 U	5.9 U	5.5 U	5.4 U
Vinyl Acetate	--	--	--	UG/KG	10 U	12 U	10 U	12 U	12 U	11 U	11 U	11 U	12 U	11 U	11 U
Vinyl Chloride	20	--	900	UG/KG	2 U	2.4 U	2.1 U	2.3 U	2.5 U	2.2 U	2.2 U	2.3 U	2.4 U	2.2 U	2.1 U
Xylenes	260	--	100000	UG/KG	2 U	2.4 U	2.1 U	2.3 U	2.5 U	2.2 U	2.2 U	2.3 U	1.3 J	2.2 U	2.1 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
FD - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
SCO - Soil Cleanup Objectives
SSCO - Supplemental Soil Cleanup Objectives
-- No SCO or SSCO available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use SCO
Shaded data indicates that parameter was detected above the NYSDEC CP-51 Residential SSCO
Red data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential SCO

Table 4B. Summary of Semivolatile Organic Compounds in Soil, 93 Dupont Street, Brooklyn, New York

DRAFT

Paramter	Part 375 Unrestricted Use SCO	CP-51 Residential Supplemental SCO	Part 375 Restricted Residential SCO	Units	Sample Designation: SB-101 Date Sampled: 12 Feb 2016 Sample Depth (ft bls): 0 - 2 Sample Type: N	SB-101 12 Feb 2016 10 - 12 N	SB-101 12 Feb 2016 5 - 7 N	SB-101 12 Feb 2016 5 - 7 FD	SB-102 12 Feb 2016 0 - 2 N	SB-102 12 Feb 2016 10 - 12 N	SB-102 12 Feb 2016 5 - 7 N	SB-103 12 Feb 2016 0 - 2 N	SB-103 12 Feb 2016 10 - 12 N	SB-103 12 Feb 2016 4 - 6 N	SB-104 11 Feb 2016 0 - 2 N	SB-104 11 Feb 2016 10 - 12 N
1,2,4,5-Tetrachlorobenzene	--	--	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
1,2,4-Trichlorobenzene	--	--	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
1,2-Dichlorobenzene	1100	--	100000	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
1,3-Dichlorobenzene	2400	--	49000	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
1,4-Dichlorobenzene	1800	--	13000	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
2,4,5-Trichlorophenol	--	100000	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
2,4,6-Trichlorophenol	--	--	--	UG/KG	120 U	120 U	120 U	120 U	120 U	120 U	120 U	130 U	120 U	120 U	120 U	130 U
2,4-Dichlorophenol	--	100000	--	UG/KG	180 U	180 U	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	180 U	190 U
2,4-Dimethylphenol	--	--	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
2,4-Dinitrophenol	--	100000	--	UG/KG	980 U	950 U	960 U	950 U	930 U	990 U	930 U	1000 U	970 U	980 U	960 U	1000 U
2,4-Dinitrotoluene	--	--	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
2,6-Dinitrotoluene	--	1030	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
2-Chloronaphthalene	--	--	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
2-Chlorophenol	--	100000	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
2-Methylnaphthalene	--	410	--	UG/KG	240 U	240 U	240 U	240 U	230 U	250 U	230 U	200 J	240 U	240 U	240 U	260 U
2-Methylphenol (O-Cresol)	330	--	100000	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
2-Nitroaniline	--	--	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
2-Nitrophenol	--	--	--	UG/KG	440 U	430 U	430 U	420 U	420 U	440 U	420 U	460 U	440 U	440 U	430 U	460 U
3,3'-Dichlorobenzidine	--	--	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
3- And 4- Methylphenol (Total)	--	--	--	UG/KG	290 U	280 U	290 U	280 U	280 U	300 U	280 U	300 U	290 U	290 U	290 U	310 U
3-Nitroaniline	--	--	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
4,6-Dinitro-2-Methylphenol	--	--	--	UG/KG	530 U	510 U	520 U	510 U	510 U	530 U	500 U	550 U	530 U	530 U	520 U	560 U
4-Bromophenyl Phenyl Ether	--	--	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
4-Chloroaniline	--	100000	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
4-Chlorophenyl Phenyl Ether	--	--	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
4-Nitroaniline	--	--	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
4-Nitrophenol	--	--	--	UG/KG	280 U	280 U	280 U	280 U	270 U	290 U	270 U	300 U	280 U	290 U	280 U	300 U
Acenaphthene	20000	--	100000	UG/KG	160 U	160 U	160 U	160 U	160 U	160 U	150 U	710	160 U	160 U	160 U	170 U
Acenaphthylene	100000	--	100000	UG/KG	160 U	160 U	160 U	160 U	160 U	160 U	150 U	870	160 U	160 U	160 U	170 U
Acetophenone	--	--	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
Anthracene	100000	--	100000	UG/KG	120 U	120 U	120 U	120 U	120 U	120 U	120 U	2600	120 U	120 U	120 U	130 U
Benzo(A)Anthracene	**1000**	--	1000	UG/KG	120 U	120 U	120 U	120 U	120 U	35 J	120 U	**9200**	37 J	28 J	120 U	130 U
Benzo(A)Pyrene	**1000**	--	1000	UG/KG	160 U	160 U	160 U	160 U	160 U	160 U	150 U	**8400**	160 U	160 U	160 U	170 U
Benzo(B)Fluoranthene	**1000**	--	1000	UG/KG	120 U	120 U	120 U	120 U	120 U	40 J	120 U	**11000**	44 J	120 U	120 U	130 U
Benzo(G,H,I)Perylene	100000	--	100000	UG/KG	160 U	160 U	160 U	160 U	160 U	29 J	150 U	5200	160 U	160 U	160 U	170 U
Benzo(K)Fluoranthene	**800**	--	3900	UG/KG	120 U	120 U	120 U	120 U	120 U	120 U	120 U	**3400**	120 U	120 U	120 U	130 U
Benzoic Acid	--	100000	--	UG/KG	660 U	640 U	650 U	640 U	630 U	670 U	630 U	680 U	660 U	660 U	650 U	690 U
Benzyl Alcohol	--	--	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
Biphenyl (Diphenyl)	--	--	--	UG/KG	460 U	450 U	450 U	450 U	440 U	470 U	440 U	82 J	460 U	470 U	460 U	490 U
Bis(2-Chloroethoxy) Methane	--	--	--	UG/KG	220 U	210 U	220 U	210 U	210 U	220 U	210 U	230 U	220 U	220 U	220 U	230 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	--	--	--	UG/KG	180 U	180 U	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	180 U	190 U
Bis(2-Chloroisopropyl) Ether	--	--	--	UG/KG	240 U	240 U	240 U	240 U	230 U	250 U	230 U	250 U	240 U	240 U	240 U	260 U
Bis(2-Ethylhexyl) Phthalate	--	50000	--	UG/KG	1500	390	2000	1200	190 U	200 U	190 U	210 U	240	200 U	1300	300

Table 4B. Summary of Semivolatile Organic Compounds in Soil, 93 Dupont Street, Brooklyn, New York

DRAFT

Paramter	Part 375 Unrestricted Use SCO	CP-51 Residential Supplemental SCO	Part 375 Restricted Residential SCO	Units	Sample Designation: SB-101 Date Sampled: 12 Feb 2016 Sample Depth (ft bls): 0 - 2 Sample Type: N	SB-101 12 Feb 2016 10 - 12 N	SB-101 12 Feb 2016 5 - 7 N	SB-101 12 Feb 2016 5 - 7 FD	SB-102 12 Feb 2016 0 - 2 N	SB-102 12 Feb 2016 10 - 12 N	SB-102 12 Feb 2016 5 - 7 N	SB-103 12 Feb 2016 0 - 2 N	SB-103 12 Feb 2016 10 - 12 N	SB-103 12 Feb 2016 4 - 6 N	SB-104 11 Feb 2016 0 - 2 N	SB-104 11 Feb 2016 10 - 12 N
Benzyl Butyl Phthalate	--	100000	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
Carbazole	--	--	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	1300	200 U	200 U	200 U	210 U
Chrysene	**1000**	--	3900	UG/KG	120 U	120 U	120 U	120 U	120 U	33 J	120 U	**9800**	36 J	26 J	120 U	130 U
Dibenz(A,H)Anthracene	**330**	--	330	UG/KG	120 U	120 U	120 U	120 U	120 U	120 U	120 U	**1300**	120 U	120 U	120 U	130 U
Dibenzofuran	7000	--	59000	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	660	200 U	200 U	200 U	210 U
Diethyl Phthalate	--	100000	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
Dimethyl Phthalate	--	100000	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
Di-N-Butyl Phthalate	--	100000	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
Di-N-Octylphthalate	--	100000	--	UG/KG	200 U	200 U	200 U	120 J	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
Fluoranthene	100000	--	100000	UG/KG	120 U	120 U	120 U	120 U	120 U	68 J	120 U	22000	79 J	54 J	120 U	130 U
Fluorene	30000	--	100000	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	770	200 U	200 U	200 U	210 U
Hexachlorobenzene	330	410	1200	UG/KG	120 U	120 U	120 U	120 U	120 U	120 U	120 U	130 U	120 U	120 U	120 U	130 U
Hexachlorobutadiene	--	--	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
Hexachlorocyclopentadiene	--	--	--	UG/KG	580 U	570 U	570 U	560 U	560 U	590 U	550 U	600 U	580 U	580 U	570 U	610 U
Hexachloroethane	--	--	--	UG/KG	160 U	160 U	160 U	160 U	160 U	160 U	150 U	170 U	160 U	160 U	160 U	170 U
Indeno(1,2,3-C,D)Pyrene	**500**	--	500	UG/KG	160 U	160 U	160 U	160 U	160 U	160 U	150 U	**5600**	160 U	160 U	160 U	170 U
Isophorone	--	100000	--	UG/KG	180 U	180 U	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	180 U	190 U
Naphthalene	12000	--	100000	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	570	200 U	200 U	200 U	210 U
Nitrobenzene	--	3700	--	UG/KG	180 U	180 U	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	180 U	190 U
N-Nitrosodiphenylamine	--	--	--	UG/KG	160 U	160 U	160 U	160 U	160 U	160 U	150 U	170 U	160 U	160 U	160 U	170 U
N-Nitrosodi-N-Propylamine	--	--	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
4-Chloro-3-Methylphenol	--	--	--	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
Pentachlorophenol	800	--	6700	UG/KG	160 U	160 U	160 U	160 U	160 U	160 U	150 U	170 U	160 U	160 U	160 U	170 U
Phenanthrene	100000	--	100000	UG/KG	120 U	120 U	120 U	120 U	120 U	52 J	120 U	16000	66 J	37 J	120 U	130 U
Phenol	330	--	100000	UG/KG	200 U	200 U	200 U	200 U	190 U	200 U	190 U	210 U	200 U	200 U	200 U	210 U
Pyrene	100000	--	100000	UG/KG	120 U	120 U	120 U	120 U	120 U	56 J	120 U	21000	75 J	52 J	120 U	130 U

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FD - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
SCO - Soil Cleanup Objectives
SSCO - Supplemental Soil Cleanup Objectives
-- No SCO or SSCO available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use SCO
Shaded data indicates that parameter was detected above the NYSDEC CP-51 Residential SSCO
Red data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential SCO

Table 4B. Summary of Semivolatile Organic Compounds in Soil, 93 Dupont Street, Brooklyn, New York

DRAFT

Paramter	Part 375 Unrestricted Use SCO	CP-51 Residential Supplemental SCO	Part 375 Restricted Residential SCO	Units	Sample Designation: SB-104 Date Sampled: 11 Feb 2016 Sample Depth (ft bls): 5 - 7 Sample Type: N	SB-105 11 Feb 2016 0 - 2 N	SB-105 11 Feb 2016 10 - 12 N	SB-106 11 Feb 2016 0 - 2 N	SB-106 11 Feb 2016 10 - 12 N	SB-107 11 Feb 2016 0 - 2 N	SB-107 11 Feb 2016 10 - 12 N	SB-108 11 Feb 2016 0 - 2 N	SB-108 11 Feb 2016 0 - 2 FD	SB-108 11 Feb 2016 10 - 12 N	SB-108 11 Feb 2016 4 - 6 N
1,2,4,5-Tetrachlorobenzene	--	--	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
1,2,4-Trichlorobenzene	--	--	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
1,2-Dichlorobenzene	1100	--	100000	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
1,3-Dichlorobenzene	2400	--	49000	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
1,4-Dichlorobenzene	1800	--	13000	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
2,4,5-Trichlorophenol	--	100000	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
2,4,6-Trichlorophenol	--	--	--	UG/KG	120 U	120 U	120 U	120 U	130 U	110 U	120 U	120 U	120 U	120 U	120 U
2,4-Dichlorophenol	--	100000	--	UG/KG	170 U	180 U	180 U	180 U	190 U	170 U	180 U	170 U	170 U	180 U	180 U
2,4-Dimethylphenol	--	--	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
2,4-Dinitrophenol	--	100000	--	UG/KG	920 U	940 U	940 U	960 U	1000 U	890 U	960 U	930 U	920 U	940 U	950 U
2,4-Dinitrotoluene	--	--	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
2,6-Dinitrotoluene	--	1030	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
2-Chloronaphthalene	--	--	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
2-Chlorophenol	--	100000	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
2-Methylnaphthalene	--	410	--	UG/KG	230 U	210 J	240 U	240 U	260 U	220 U	240 U	140 J	120 J	240 U	240 U
2-Methylphenol (O-Cresol)	330	--	100000	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	35 J	190 U	200 U	200 U
2-Nitroaniline	--	--	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
2-Nitrophenol	--	--	--	UG/KG	420 U	420 U	420 U	430 U	460 U	400 U	430 U	420 U	410 U	420 U	420 U
3,3'-Dichlorobenzidine	--	--	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
3- And 4- Methylphenol (Total)	--	--	--	UG/KG	280 U	42 J	280 U	290 U	310 U	260 U	290 U	280 U	280 U	280 U	280 U
3-Nitroaniline	--	--	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
4,6-Dinitro-2-Methylphenol	--	--	--	UG/KG	500 U	510 U	510 U	520 U	550 U	480 U	520 U	500 U	500 U	510 U	510 U
4-Bromophenyl Phenyl Ether	--	--	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
4-Chloroaniline	--	100000	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
4-Chlorophenyl Phenyl Ether	--	--	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
4-Nitroaniline	--	--	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
4-Nitrophenol	--	--	--	UG/KG	270 U	280 U	280 U	280 U	300 U	260 U	280 U	270 U	270 U	270 U	280 U
Acenaphthene	20000	--	100000	UG/KG	150 U	600	160 U	160 U	170 U	150 U	160 U	120 J	170	160 U	160 U
Acenaphthylene	100000	--	100000	UG/KG	150 U	650	160 U	160 U	170 U	150 U	160 U	71 J	130 J	160 U	160 U
Acetophenone	--	--	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
Anthracene	100000	--	100000	UG/KG	120 U	1900	120 U	120 U	130 U	110 U	120 U	220	430	120 U	120 U
Benzo(A)Anthracene	**1000**	--	1000	UG/KG	120 U	**4500**	120 U	120 U	130 U	110 U	120 U	**1100**	**1300**	26 J	120 U
Benzo(A)Pyrene	**1000**	--	1000	UG/KG	150 U	**3900**	160 U	160 U	170 U	150 U	160 U	1000	**1200**	160 U	160 U
Benzo(B)Fluoranthene	**1000**	--	1000	UG/KG	120 U	**5000**	120 U	120 U	130 U	110 U	120 U	**1500**	**1600**	120 U	120 U
Benzo(G,H,I)Perylene	100000	--	100000	UG/KG	150 U	2000	160 U	160 U	170 U	150 U	160 U	630	730	160 U	160 U
Benzo(K)Fluoranthene	**800**	--	3900	UG/KG	120 U	**2000**	120 U	120 U	130 U	110 U	120 U	570	680	120 U	120 U
Benzoic Acid	--	100000	--	UG/KG	620 U	640 U	640 U	650 U	690 U	600 U	650 U	630 U	620 U	640 U	640 U
Benzyl Alcohol	--	--	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
Biphenyl (Diphenyl)	--	--	--	UG/KG	440 U	71 J	450 U	460 U	490 U	420 U	460 U	440 U	440 U	450 U	450 U
Bis(2-Chloroethoxy) Methane	--	--	--	UG/KG	210 U	210 U	210 U	220 U	230 U	200 U	220 U	210 U	210 U	210 U	210 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	--	--	--	UG/KG	170 U	180 U	180 U	180 U	190 U	170 U	180 U	170 U	170 U	180 U	180 U
Bis(2-Chloroisopropyl) Ether	--	--	--	UG/KG	230 U	240 U	240 U	240 U	260 U	220 U	240 U	230 U	230 U	240 U	240 U
Bis(2-Ethylhexyl) Phthalate	--	50000	--	UG/KG	380	190 J	200 U	200 U	210 U	180 U	200 U	900	590	200 U	200 U

Table 4B. Summary of Semivolatile Organic Compounds in Soil, 93 Dupont Street, Brooklyn, New York

DRAFT

Paramter	Part 375 Unrestricted Use SCO	CP-51 Residential Supplemental SCO	Part 375 Restricted Residential SCO	Units	Sample Designation:	SB-104	SB-105	SB-105	SB-106	SB-106	SB-107	SB-107	SB-108	SB-108	SB-108	SB-108
					Date Sampled:	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016
					Sample Depth (ft bls):	5 - 7	0 - 2	10 - 12	0 - 2	10 - 12	0 - 2	10 - 12	0 - 2	0 - 2	10 - 12	4 - 6
					Sample Type:	N	N	N	N	N	N	N	N	FD	N	N
Benzyl Butyl Phthalate	--	100000	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
Carbazole	--	--	--	UG/KG	190 U	640	200 U	200 U	210 U	180 U	200 U	240	250	200 U	200 U
Chrysene	**1000**	--	3900	UG/KG	120 U	**4600**	120 U	120 U	130 U	110 U	120 U	**1200**	**1400**	26 J	120 U
Dibenz(A,H)Anthracene	**330**	--	330	UG/KG	120 U	**500**	120 U	120 U	130 U	110 U	120 U	160	180	120 U	120 U
Dibenzofuran	7000	--	59000	UG/KG	190 U	450	200 U	200 U	210 U	180 U	200 U	130 J	150 J	200 U	200 U
Diethyl Phthalate	--	100000	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
Dimethyl Phthalate	--	100000	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
Di-N-Butyl Phthalate	--	100000	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	82 J	200 U	200 U
Di-N-Octylphthalate	--	100000	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
Fluoranthene	100000	--	100000	UG/KG	120 U	10000	120 U	120 U	130 U	110 U	120 U	3000	3400	65 J	120 U
Fluorene	30000	--	100000	UG/KG	190 U	670	200 U	200 U	210 U	180 U	200 U	130 J	190	200 U	200 U
Hexachlorobenzene	330	410	1200	UG/KG	120 U	120 U	120 U	120 U	130 U	110 U	120 U	120 U	120 U	120 U	120 U
Hexachlorobutadiene	--	--	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
Hexachlorocyclopentadiene	--	--	--	UG/KG	550 U	560 U	560 U	570 U	610 U	530 U	570 U	550 U	550 U	560 U	560 U
Hexachloroethane	--	--	--	UG/KG	150 U	160 U	160 U	160 U	170 U	150 U	160 U	160 U	150 U	160 U	160 U
Indeno(1,2,3-C,D)Pyrene	**500**	--	500	UG/KG	150 U	**2200**	160 U	160 U	170 U	150 U	160 U	**690**	**800**	160 U	160 U
Isophorone	--	100000	--	UG/KG	170 U	180 U	180 U	180 U	190 U	170 U	180 U	170 U	170 U	180 U	180 U
Naphthalene	12000	--	100000	UG/KG	190 U	370	200 U	200 U	210 U	180 U	200 U	130 J	220	200 U	200 U
Nitrobenzene	--	3700	--	UG/KG	170 U	180 U	180 U	180 U	190 U	170 U	180 U	170 U	170 U	180 U	180 U
N-Nitrosodiphenylamine	--	--	--	UG/KG	150 U	160 U	160 U	160 U	170 U	150 U	160 U	160 U	150 U	160 U	160 U
N-Nitrosodi-N-Propylamine	--	--	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
4-Chloro-3-Methylphenol	--	--	--	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
Pentachlorophenol	800	--	6700	UG/KG	150 U	160 U	160 U	160 U	170 U	150 U	160 U	160 U	150 U	160 U	160 U
Phenanthrene	100000	--	100000	UG/KG	120 U	8600	120 U	120 U	130 U	110 U	120 U	2200	2300	49 J	120 U
Phenol	330	--	100000	UG/KG	190 U	200 U	200 U	200 U	210 U	180 U	200 U	190 U	190 U	200 U	200 U
Pyrene	100000	--	100000	UG/KG	120 U	9600	120 U	120 U	130 U	110 U	120 U	2600	3100	54 J	120 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
FD - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
SCO - Soil Cleanup Objectives
SSCO - Supplemental Soil Cleanup Objectives
-- No SCO or SSCO available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use SCO
Shaded data indicates that parameter was detected above the NYSDEC CP-51 Residential SSCO
Red data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential SCO

Table 4C. Summary of Metals in Soil, 93 Dupont Street, Brooklyn, New York

DRAFT

Paramter	Part 375 Unrestricted Use SCO	CP-51 Residential Supplemental SCO	Part 375 Restricted Residential SCO	Units	Sample Designation:	SB-101	SB-101	SB-101	SB-102	SB-102	SB-102	SB-103	SB-103	SB-103	SB-104	SB-104	SB-104	SB-105
					Date Sampled:	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016
					Sample Depth (ft bls):	0 - 2	10 - 12	5 - 7	5 - 7	0 - 2	10 - 12	5 - 7	0 - 2	10 - 12	4 - 6	0 - 2	10 - 12	5 - 7	0 - 2
					Sample Type:	N	N	N	FD	N	N	N	N	N	N	N	N	N	N
Aluminum	--	--	--	MG/KG		6700	7300	3500	9400	6900	15000	4400	6000	5800	9200	10000	6200	7400	6500
Antimony	--	--	--	MG/KG		4.8 U	4.8 U	4.7 U	4.8	4.7 U	5 U	4.7 U	4.9 U	4.9 U	5 U	1.1 J	4.9 U	0.9 J	1.5 J
Arsenic	13	--	16	MG/KG		3	2.5	2.5	4.1	4.7	12	4.2	3	2.4	5.1	3.3	2.9	2.7	8.5
Barium	**350**	--	400	MG/KG		22	34	13	34	31	65	20	68	23	9.1	26	23	20	**490**
Beryllium	7.2	--	72	MG/KG		0.29 J	0.32 J	0.27 J	0.32 J	0.26 J	0.77	0.23 J	0.25 J	0.22 J	0.29 J	0.33 J	0.31 J	0.31 J	0.33 J
Cadmium	2.5	--	4.3	MG/KG		0.96 U	0.95 U	0.94 U	0.93 U	0.93 U	0.81 J	0.93 U	0.98 U	0.97 U	0.99 U	0.92 U	0.98 U	0.93 U	0.94 U
Calcium	--	--	--	MG/KG		1900	620	3600	3400	940	16000	6100	2400	4000	330	2000	730	1200	16000
Chromium, Total	30	--	180	MG/KG		11	9	7.7	17	9.1	27	11	10	10	22	14	11	16	23
Cobalt	--	30	--	MG/KG		6.6	4.3	2.9	6.9	4.9	7.9	3.2	2.4	3.6	5.2	6.7	5.1	6.9	6
Copper	**50**	--	270	MG/KG		11	8.2	4.7	15	10	**67**	8.6	19	11	18	15	11	14	38
Iron	--	2000	--	MG/KG		14000	12000	7400	14000	14000	19000	11000	7700	9600	20000	18000	11000	14000	15000
Lead	**63**	--	400	MG/KG		4.8	14	2.9 J	4.6 U	4.8	**200**	10	**160**	12	15	4.6 U	4.9 U	4.7 U	**2500**
Magnesium	--	--	--	MG/KG		1900	2100	1300	2600	2100	5300	1400	1200	2600	2400	2900	2000	2400	2900
Manganese	1600	--	2000	MG/KG		430	240	74	210	110	340	100	130	110	210	290	110	380	240
Mercury	**0.18**	--	0.81	MG/KG		0.05 J	0.08 U	0.03 J	0.02 J	0.09	0.09 U	0.02 J	**0.27**	0.14	**0.22**	0.05 J	0.08 U	0.02 J	**0.7**
Nickel	30	--	310	MG/KG		10	9	5.5	13	9.4	26	6.2	5.8	8.3	12	13	10	11	13
Potassium	--	--	--	MG/KG		400	490	460	660	320	2700	460	300	370	520	470	430	450	760
Selenium	3.9	--	180	MG/KG		1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	0.38 J	1.9 U	0.51 J	1.9 U	0.43 J	1.8 U	2 U	1.9 U	0.47 J
Silver	2	--	180	MG/KG		0.96 U	0.95 U	0.94 U	0.93 U	0.93 U	1 U	0.93 U	0.34 J	0.97 U	0.99 U	0.92 U	0.98 U	0.93 U	0.94 U
Sodium	--	--	--	MG/KG		56 J	85 J	48 J	110 J	33 J	220	90 J	75 J	55 J	56 J	78 J	52 J	55 J	150 J
Thallium	--	--	--	MG/KG		1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	2 U	1.9 U	2 U	1.9 U	2 U	1.8 U	2 U	1.9 U	1.9 U
Vanadium	--	100	--	MG/KG		13	11	12	13	12	27	15	10	10	20	18	14	15	26
Zinc	**109**	--	10000	MG/KG		39	31	18	49	40	**230**	23	56	29	34	**110**	43	68	**380**

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FD - Duplicate sample
mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
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SCO - Soil Cleanup Objectives
SSCO - Supplemental Soil Cleanup Objectives
-- No SCO or SSCO available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use SCO
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Red data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential SCO

Table 4C. Summary of Metals in Soil, 93 Dupont Street, Brooklyn, New York

DRAFT

Paramter	Part 375 Unrestricted Use SCO	CP-51 Residential Supplemental SCO	Part 375 Restricted Residential SCO	Units	Sample Designation: SB-105 Date Sampled: 11 Feb 2016 Sample Depth (ft bls): 10 - 12 Sample Type: N	SB-106 11 Feb 2016 0 - 2 N	SB-106 11 Feb 2016 10 - 12 N	SB-107 11 Feb 2016 0 - 2 N	SB-107 11 Feb 2016 10 - 12 N	SB-108 11 Feb 2016 0 - 2 N	SB-108 11 Feb 2016 0 - 2 FD	SB-108 11 Feb 2016 10 - 12 N	SB-108 11 Feb 2016 4 - 6 N
Aluminum	--	--	--	MG/KG	5000	8200	3400	5400	11000	9000	8100	8000	6400
Antimony	--	--	--	MG/KG	4.8 U	4.7 U	5.1 U	4.3 U	4.6 U	1.6 J	2.4 J	0.94 J	1 J
Arsenic	13	--	16	MG/KG	3.9	3.4	0.98 J	5.1	2.3	4.2	6.7	3.2	5
Barium	**350**	--	400	MG/KG	26	23	12	16	110	300	310	35	23
Beryllium	7.2	--	72	MG/KG	0.3 J	0.24 J	0.2 J	0.42 J	0.45 J	0.33 J	0.3 J	0.34 J	0.62
Cadmium	2.5	--	4.3	MG/KG	0.95 U	0.93 U	1 U	0.86 U	0.93 U	0.94 U	0.91 U	0.94 U	0.9 U
Calcium	--	--	--	MG/KG	510	2000	480	450	12000	9000	16000	10000	680
Chromium, Total	30	--	180	MG/KG	10	18	7.6	9.6	27	17	18	15	17
Cobalt	--	30	--	MG/KG	6.1	5.9	2.6	4.7	9.3	8.2	11	5.8	5.1
Copper	**50**	--	270	MG/KG	8.9	16	5.4	13	23	44	**120**	16	13
Iron	--	2000	--	MG/KG	12000	15000	7300	15000	22000	20000	29000	16000	21000
Lead	**63**	--	400	MG/KG	1.7 J	6.2	5.1 U	4.3 U	0.86 J	**230**	**680**	11	45 U
Magnesium	--	--	--	MG/KG	1500	2600	1100	1300	9200	4300	6300	5400	1800
Manganese	1600	--	2000	MG/KG	180	160	45	220	380	310	340	340	160
Mercury	**0.18**	--	0.81	MG/KG	0.08 U	0.076 J	0.08 U	0.02 J	0.02 J	**0.28**	**0.26**	0.03 J	0.08 U
Nickel	30	--	310	MG/KG	11	11	6.3	6.7	22	13	16	11	10
Potassium	--	--	--	MG/KG	630	510	420	720	4100	640	650	580	500
Selenium	3.9	--	180	MG/KG	1.9 U	1.9 U	2 U	1.7 U	0.36 J	1.9 U	0.38 J	1.9 U	1.8 U
Silver	2	--	180	MG/KG	0.95 U	0.93 U	1 U	0.86 U	0.93 U	0.94 U	0.91 U	0.94 U	0.9 U
Sodium	--	--	--	MG/KG	190 U	140 J	41 J	28 J	180	110 J	130 J	88 J	64 J
Thallium	--	--	--	MG/KG	1.9 U	1.9 U	2 U	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U
Vanadium	--	100	--	MG/KG	17	15	10	19	31	21	28	16	22
Zinc	**109**	--	10000	MG/KG	30	**240**	64	39	58	**220**	**240**	44	37

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ft bls - Feet below land surface
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SCO - Soil Cleanup Objectives
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-- No SCO or SSCO available
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Red data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential SCO

Table 4D. Summary of Polychlorinated Biphenyls in Soil, 93 Dupont Street, Brooklyn, New York **DRAFT**

			Sample Designation:		SB-101	SB-101	SB-101	SB-101	SB-102	SB-102	SB-102	SB-103	SB-103	SB-103	SB-104	SB-104
			Date Sampled:		12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	12 Feb 2016	11 Feb 2016	11 Feb 2016
			Sample Depth (ft bls):		0 - 2	10 - 12	5 - 7	5 - 7	0 - 2	10 - 12	5 - 7	0 - 2	10 - 12	4 - 6	0 - 2	10 - 12
			Sample Type:		N	N	N	FD	N	N	N	N	N	N	N	N
Paramter	Part 375 Unrestricted Use SCO	CP-51 Residential Supplemental SCO	Part 375 Restricted Residential SCO	Units												
PCB-1016 (Aroclor 1016)	--	--	--	UG/KG	39.4 U	38.3 U	38.4 U	39.6 U	38.8 U	40.4 U	38.5 U	41 U	39.4 U	39.7 U	39.2 U	40.5 U
PCB-1221 (Aroclor 1221)	--	--	--	UG/KG	39.4 U	38.3 U	38.4 U	39.6 U	38.8 U	40.4 U	38.5 U	41 U	39.4 U	39.7 U	39.2 U	40.5 U
PCB-1232 (Aroclor 1232)	--	--	--	UG/KG	39.4 U	38.3 U	38.4 U	39.6 U	38.8 U	40.4 U	38.5 U	41 U	39.4 U	39.7 U	39.2 U	40.5 U
PCB-1242 (Aroclor 1242)	--	--	--	UG/KG	39.4 U	38.3 U	38.4 U	39.6 U	38.8 U	40.4 U	38.5 U	41 U	39.4 U	39.7 U	39.2 U	40.5 U
PCB-1248 (Aroclor 1248)	--	--	--	UG/KG	39.4 U	38.3 U	38.4 U	39.6 U	38.8 U	40.4 U	38.5 U	41 U	39.4 U	39.7 U	39.2 U	40.5 U
PCB-1254 (Aroclor 1254)	--	--	--	UG/KG	39.4 U	38.3 U	38.4 U	39.6 U	38.8 U	40.4 U	38.5 U	41 U	39.4 U	39.7 U	39.2 U	40.5 U
PCB-1260 (Aroclor 1260)	--	--	--	UG/KG	26.1 J	26.4 J	12.8 J	26.5 J	38.8 U	40.4 U	38.5 U	41 U	39.4 U	39.7 U	14.7 J	40.5 U
PCB-1262 (Aroclor 1262)	--	--	--	UG/KG	39.4 U	38.3 U	38.4 U	39.6 U	38.8 U	40.4 U	38.5 U	41 U	39.4 U	39.7 U	39.2 U	40.5 U
PCB-1268 (Aroclor 1268)	--	--	--	UG/KG	39.4 U	38.3 U	38.4 U	39.6 U	38.8 U	40.4 U	38.5 U	17.9 J	39.4 U	39.7 U	39.2 U	40.5 U
Polychlorinated Biphenyl (PCBs)	100	--	1000	UG/KG	26.1 J	26.4 J	12.8 J	26.5 J	38.8 U	40.4 U	38.5 U	17.9 J	39.4 U	39.7 U	14.7 J	40.5 U

J - Estimated value
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FD - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
SCO - Soil Cleanup Objectives
SSCO - Supplemental Soil Cleanup Objectives
-- No SCO or SSCO available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use SCO
Shaded data indicates that parameter was detected above the NYSDEC CP-51 Residential SSCO
Red data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential SCO

Table 4D. Summary of Polychlorinated Biphenyls in Soil, 93 Dupont Street, Brooklyn, New York **DRAFT**

			Sample Designation:		SB-104	SB-105	SB-105	SB-106	SB-106	SB-107	SB-107	SB-108	SB-108	SB-108	SB-108
			Date Sampled:		11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016
			Sample Depth (ft bls):		5 - 7	0 - 2	10 - 12	0 - 2	10 - 12	0 - 2	10 - 12	0 - 2	0 - 2	10 - 12	4 - 6
			Sample Type:		N	N	N	N	N	N	N	N	FD	N	N
Paramter	Part 375 Unrestricted Use SCO	CP-51 Residential Supplemental SCO	Part 375 Restricted Residential SCO	Units											
PCB-1016 (Aroclor 1016)	--	--	--	UG/KG	37.7 U	38.7 U	39 U	39.4 U	41 U	36 U	39.5 U	39.5 U	37 U	37.7 U	38.3 U
PCB-1221 (Aroclor 1221)	--	--	--	UG/KG	37.7 U	38.7 U	39 U	39.4 U	41 U	36 U	39.5 U	39.5 U	37 U	37.7 U	38.3 U
PCB-1232 (Aroclor 1232)	--	--	--	UG/KG	37.7 U	38.7 U	39 U	39.4 U	41 U	36 U	39.5 U	39.5 U	37 U	37.7 U	38.3 U
PCB-1242 (Aroclor 1242)	--	--	--	UG/KG	37.7 U	38.7 U	39 U	39.4 U	41 U	36 U	39.5 U	39.5 U	37 U	37.7 U	38.3 U
PCB-1248 (Aroclor 1248)	--	--	--	UG/KG	37.7 U	38.7 U	39 U	39.4 U	41 U	36 U	39.5 U	39.5 U	37 U	37.7 U	38.3 U
PCB-1254 (Aroclor 1254)	--	--	--	UG/KG	37.7 U	38.7 U	39 U	39.4 U	41 U	36 U	39.5 U	39.5 U	37 U	37.7 U	38.3 U
PCB-1260 (Aroclor 1260)	--	--	--	UG/KG	13.2 J	13 J	39 U	39.4 U	41 U	36 U	39.5 U	39.5 U	37 U	37.7 U	38.3 U
PCB-1262 (Aroclor 1262)	--	--	--	UG/KG	37.7 U	38.7 U	39 U	39.4 U	41 U	36 U	39.5 U	39.5 U	37 U	37.7 U	38.3 U
PCB-1268 (Aroclor 1268)	--	--	--	UG/KG	37.7 U	38.7 U	39 U	39.4 U	41 U	36 U	39.5 U	39.5 U	37 U	37.7 U	38.3 U
Polychlorinated Biphenyl (PCBs)	100	--	1000	UG/KG	13.2 J	13 J	39 U	39.4 U	41 U	36 U	39.5 U	39.5 U	37 U	37.7 U	38.3 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
FD - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
SCO - Soil Cleanup Objectives
SSCO - Supplemental Soil Cleanup Objectives
-- No SCO or SSCO available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use SCO
Shaded data indicates that parameter was detected above the NYSDEC CP-51 Residential SSCO
Red data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential SCO

Table 4E. Summary of Pesticides in Soil, 93 Dupont Street, Brooklyn, New York

DRAFT

Paramter	Part 375 Unrestricted Use SCO	CP-51 Residential Supplemental SCO	Part 375 Restricted Residential SCO	Units	Sample Designation: SB-101 Date Sampled: 12 Feb 2016 Sample Depth (ft bls): 0 - 2 Sample Type: N	SB-101 12 Feb 2016 10 - 12 N	SB-101 12 Feb 2016 5 - 7 N	SB-101 12 Feb 2016 5 - 7 FD	SB-102 12 Feb 2016 0 - 2 N	SB-102 12 Feb 2016 10 - 12 N	SB-102 12 Feb 2016 5 - 7 N	SB-103 12 Feb 2016 0 - 2 N	SB-103 12 Feb 2016 10 - 12 N	SB-103 12 Feb 2016 4 - 6 N	SB-104 11 Feb 2016 0 - 2 N	SB-104 11 Feb 2016 10 - 12 N
P,P'-DDD	**3.3**	--	13000	UG/KG	1.91 U	1.88 U	1.93 U	**4.27**	1.9 U	1.95 U	1.84 U	2.02 U	1.88 U	1.92 U	1.89 U	1.97 U
P,P'-DDE	**3.3**	--	8900	UG/KG	0.854 J	0.894 J	**3.54**	2.06	1.9 U	1.95 U	1.84 U	2.02 U	1.88 U	1.92 U	0.542 J	1.97 U
P,P'-DDT	**3.3**	--	7900	UG/KG	3.59 U	3.52 U	3.61 U	3.29 J	3.56 U	3.65 U	3.44 U	3.79 U	3.53 U	3.61 U	3.55 U	3.69 U
Aldrin	5	--	97	UG/KG	1.91 U	1.88 U	1.93 U	1.88 U	1.9 U	1.95 U	1.84 U	2.02 U	1.88 U	1.92 U	1.89 U	1.97 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	20	--	480	UG/KG	0.798 U	0.781 U	0.803 U	0.782 U	0.791 U	0.812 U	0.764 U	0.843 U	0.785 U	0.802 U	0.789 U	0.82 U
Beta Bhc (Beta Hexachlorocyclohexane)	36	--	360	UG/KG	1.91 U	1.88 U	1.93 U	1.88 U	1.9 U	1.95 U	1.84 U	2.02 U	1.88 U	1.92 U	1.89 U	1.97 U
Chlordane	--	--	--	UG/KG	15.6 U	15.2 U	15.7 U	15.2 U	15.4 U	15.8 U	14.9 U	16.4 U	15.3 U	15.6 U	15.4 U	16 U
cis-Chlordane	94	--	4200	UG/KG	2.39 U	2.34 U	2.41 U	2.34 U	2.37 U	2.44 U	2.29 U	2.53 U	2.36 U	2.4 U	0.8 J	2.46 U
Delta BHC (Delta Hexachlorocyclohexane)	40	--	100000	UG/KG	1.91 U	1.88 U	1.93 U	1.88 U	1.9 U	1.95 U	1.84 U	2.02 U	1.88 U	1.92 U	1.89 U	1.97 U
Dieldrin	5	--	200	UG/KG	1.2 U	0.906 J	1.81 PI	0.669 JPI	1.19 U	1.22 U	1.15 U	1.26 U	1.18 U	1.2 U	0.649 J	1.23 U
Alpha Endosulfan	2400	--	24000	UG/KG	1.91 U	1.88 U	1.93 U	1.88 U	1.9 U	1.95 U	1.84 U	2.02 U	1.88 U	1.92 U	1.89 U	1.97 U
Beta Endosulfan	2400	--	24000	UG/KG	1.91 U	1.88 U	1.93 U	1.88 U	1.9 U	1.95 U	1.84 U	2.02 U	1.88 U	1.92 U	1.89 U	1.97 U
Endosulfan Sulfate	2400	--	24000	UG/KG	0.798 U	0.781 U	0.803 U	0.782 U	0.791 U	0.812 U	0.764 U	0.843 U	0.785 U	0.802 U	0.789 U	0.82 U
Endrin	14	--	11000	UG/KG	0.798 U	0.781 U	0.803 U	0.782 U	0.791 U	0.812 U	0.764 U	0.843 U	0.785 U	0.802 U	0.789 U	0.82 U
Endrin Aldehyde	--	--	--	UG/KG	2.39 U	2.34 U	2.41 U	2.34 U	2.37 U	2.44 U	2.29 U	2.53 U	2.36 U	1.08 J	2.37 U	2.46 U
Endrin Ketone	--	--	--	UG/KG	1.91 U	1.88 U	1.93 U	1.88 U	1.9 U	1.95 U	1.84 U	2.02 U	1.88 U	1.92 U	1.89 U	1.97 U
Heptachlor	42	--	2100	UG/KG	0.957 U	0.938 U	0.964 U	0.938 U	0.949 U	0.974 U	0.918 U	1.01 U	0.942 U	0.962 U	0.947 U	0.984 U
Heptachlor Epoxide	--	77	--	UG/KG	3.59 U	3.52 U	3.61 U	3.52 U	3.56 U	3.65 U	3.44 U	2.54 J	3.53 U	3.61 U	3.55 U	3.69 U
Gamma Bhc (Lindane)	100	--	1300	UG/KG	0.798 U	0.781 U	0.803 U	0.782 U	0.791 U	0.812 U	0.764 U	0.843 U	0.785 U	0.802 U	0.789 U	0.82 U
Methoxychlor	--	100000	--	UG/KG	3.59 U	3.52 U	3.61 U	3.52 U	3.56 U	3.65 U	3.44 U	3.79 U	3.53 U	3.61 U	3.55 U	3.69 U
Toxaphene	--	--	--	UG/KG	35.9 U	35.2 U	36.1 U	35.2 U	35.6 U	36.5 U	34.4 U	37.9 U	35.3 U	36.1 U	35.5 U	36.9 U
trans-Chlordane	--	540	--	UG/KG	2.39 U	2.34 U	2.41 U	2.34 U	2.37 U	2.44 U	2.29 U	2.53 U	2.36 U	2.4 U	0.847 JPI	2.04 J

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
FD - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
SCO - Soil Cleanup Objectives
SSCO - Supplemental Soil Cleanup Objectives
-- No SCO or SSCO available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use SCO
Shaded data indicates that parameter was detected above the NYSDEC CP-51 Residential SSCO
Red data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential SCO

Table 4E. Summary of Pesticides in Soil, 93 Dupont Street, Brooklyn, New York

DRAFT

				Sample Designation:	SB-104	SB-105	SB-105	SB-106	SB-106	SB-107	SB-107	SB-108	SB-108	SB-108	SB-108
				Date Sampled:	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016	11 Feb 2016
				Sample Depth (ft bls):	5 - 7	0 - 2	10 - 12	0 - 2	10 - 12	0 - 2	10 - 12	0 - 2	0 - 2	10 - 12	4 - 6
				Sample Type:	N	N	N	N	N	N	N	N	FD	N	N
Paramter	Part 375 Unrestricted Use SCO	CP-51 Residential Supplemental SCO	Part 375 Restricted Residential SCO	Units											
P,P'-DDD	**3.3**	--	13000	UG/KG	1.78 U	1.87 U	1.82 U	1.96 U	2.02 U	1.77 U	1.9 U	1.89 U	**7.9**	1.85 U	1.85 U
P,P'-DDE	**3.3**	--	8900	UG/KG	1.78 U	**17.9**	1.82 U	1.96 U	2.02 U	1.77 U	1.9 U	2.2	2.01	1.85 U	1.85 U
P,P'-DDT	**3.3**	--	7900	UG/KG	3.33 U	**77**	3.41 U	3.68 U	3.79 U	3.31 U	3.57 U	1.9 JPI	3.46 U	3.47 U	3.47 U
Aldrin	5	--	97	UG/KG	1.78 U	1.87 U	1.82 U	1.96 U	2.02 U	1.77 U	1.9 U	1.89 U	1.84 U	1.85 U	1.85 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	20	--	480	UG/KG	0.74 U	0.78 U	0.757 U	0.817 U	0.842 U	0.736 U	0.793 U	0.789 U	0.769 U	0.77 U	0.772 U
Beta Bhc (Beta Hexachlorocyclohexane)	36	--	360	UG/KG	1.78 U	1.87 U	1.82 U	1.96 U	2.02 U	1.77 U	1.9 U	1.89 U	1.84 U	1.85 U	1.85 U
Chlordane	--	--	--	UG/KG	14.4 U	15.2 U	14.8 U	15.9 U	16.4 U	14.3 U	15.5 U	15.4 U	15 U	15 U	15 U
cis-Chlordane	94	--	4200	UG/KG	1.02 J	2.34 U	2.27 U	1.46 J	1.52 J	1.83 J	1.52 JPI	1.71 J	1.4 J	1.77 J	2.32 U
Delta BHC (Delta Hexachlorocyclohexane)	40	--	100000	UG/KG	1.78 U	1.87 U	1.82 U	1.96 U	2.02 U	1.77 U	1.9 U	1.89 U	1.84 U	1.85 U	1.85 U
Dieldrin	5	--	200	UG/KG	1.11 U	1.17 U	1.14 U	1.22 U	1.26 U	1.1 U	1.19 U	1.18 U	1.15 U	1.16 U	1.16 U
Alpha Endosulfan	2400	--	24000	UG/KG	1.78 U	1.87 U	1.82 U	1.96 U	2.02 U	1.77 U	1.9 U	1.89 U	1.84 U	1.85 U	1.85 U
Beta Endosulfan	2400	--	24000	UG/KG	1.78 U	1.87 U	1.82 U	1.96 U	2.02 U	1.77 U	1.9 U	1.89 U	1.84 U	1.85 U	1.85 U
Endosulfan Sulfate	2400	--	24000	UG/KG	0.74 U	0.78 U	0.757 U	0.817 U	0.842 U	0.736 U	0.793 U	0.789 U	0.769 U	0.77 U	0.772 U
Endrin	14	--	11000	UG/KG	0.74 U	0.78 U	0.757 U	0.817 U	0.842 U	0.736 U	0.793 U	0.789 U	0.769 U	0.77 U	0.772 U
Endrin Aldehyde	--	--	--	UG/KG	2.22 U	2.34 U	2.27 U	2.45 U	2.53 U	2.21 U	2.38 U	2.37 U	2.31 U	2.31 U	2.32 U
Endrin Ketone	--	--	--	UG/KG	1.78 U	1.87 U	1.82 U	1.96 U	2.02 U	1.77 U	1.9 U	1.89 U	1.84 U	1.85 U	1.85 U
Heptachlor	42	--	2100	UG/KG	0.888 U	0.936 U	0.909 U	0.98 U	1.01 U	0.883 U	0.952 U	0.947 U	0.923 U	0.924 U	0.926 U
Heptachlor Epoxide	--	77	--	UG/KG	3.33 U	3.51 U	3.41 U	3.68 U	3.79 U	3.31 U	3.57 U	3.55 U	3.46 U	3.47 U	3.47 U
Gamma Bhc (Lindane)	100	--	1300	UG/KG	0.74 U	0.78 U	0.757 U	0.817 U	0.842 U	0.736 U	0.793 U	0.789 U	0.769 U	0.77 U	0.772 U
Methoxychlor	--	100000	--	UG/KG	3.33 U	3.51 U	3.41 U	3.68 U	3.79 U	3.31 U	3.57 U	3.55 U	3.46 U	3.47 U	3.47 U
Toxaphene	--	--	--	UG/KG	33.3 U	35.1 U	34.1 U	36.8 U	37.9 U	33.1 U	35.7 U	35.5 U	34.6 U	34.7 U	34.7 U
trans-Chlordane	--	540	--	UG/KG	2.22 U	2.02 JPI	0.72 JPI	1.46 J	1.13 JPI	2 J	3.24	1.47 JPI	1.02 JPI	0.888 JPI	0.97 JPI

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
FD - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
SCO - Soil Cleanup Objectives
SSCO - Supplemental Soil Cleanup Objectives
-- No SCO or SSCO available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use SCO
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Red data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential SCO

Table 5A. Summary of Volatile Organic Compounds in Groundwater, 93 Dupont Street, Brooklyn, New York

DRAFT

Parameter	NYSDEC Ambient Water Quality Standards	NYSDEC Ambient Water Quality Guidance Values	MW-101 19 Feb 2016 FD T	MW-101 19 Feb 2016 N T	MW-102 19 Feb 2016 N T	MW-103 19 Feb 2016 N T	MW-104 18 Feb 2016 N T	MW-105 19 Feb 2016 N T
Sample Designation:			MW-101	MW-101	MW-102	MW-103	MW-104	MW-105
Sample Date:			19 Feb 2016	19 Feb 2016	19 Feb 2016	19 Feb 2016	18 Feb 2016	19 Feb 2016
Sample Type:			FD	N	N	N	N	N
Total or Dissolved:			T	T	T	T	T	T
1,1,1,2-Tetrachloroethane	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	--	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	--	2.5 U	2.5 U	0.72 J	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	--	0.5 U	0.5 U	2.2	0.19 J	0.5 U	0.5 U
1,1-Dichloropropene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	--	2 U	2 U	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloroethylenes	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloropropane	1	--	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	3	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	--	2 U	2 U	2 U	2 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	--	--	250 U	250 U	250 U	250 U	250 U	250 U
2,2-Dichloropropane	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	--	50	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	--	50	5 U	5 U	5 U	5 U	5 U	5 U
4-Ethyltoluene	--	--	2 U	2 U	2 U	2 U	2 U	2 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	--	50	5 U	5 U	5 U	5 U	4.2 J	5 U
Acrylonitrile	5	--	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	--	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	--	50	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon Disulfide	--	60	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 5A. Summary of Volatile Organic Compounds in Groundwater, 93 Dupont Street, Brooklyn, New York

DRAFT

Parameter	NYSDEC Ambient Water Quality Standards	NYSDEC Ambient Water Quality Guidance Values	MW-101 19 Feb 2016 FD T	MW-101 19 Feb 2016 N T	MW-102 19 Feb 2016 N T	MW-103 19 Feb 2016 N T	MW-104 18 Feb 2016 N T	MW-105 19 Feb 2016 N T
Sample Designation:			MW-101	MW-101	MW-102	MW-103	MW-104	MW-105
Sample Date:			19 Feb 2016	19 Feb 2016	19 Feb 2016	19 Feb 2016	18 Feb 2016	19 Feb 2016
Sample Type:			FD	N	N	N	N	N
Total or Dissolved:			T	T	T	T	T	T
Chloromethane	--	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	--	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	--	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	5	--	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	--	5 U	5 U	5 U	5 U	5 U	5 U
Diethyl Ether (Ethyl Ether)	--	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	--	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene Chloride	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	--	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Chlorotoluene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cymene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
T-Butylbenzene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,2-Dichloroethene	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethylene (TCE)	5	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	--	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2	--	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes	5	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

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J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 5B. Summary of Semivolatile Organic Compounds in Groundwater, 93 Dupont Street, Brooklyn, New York

DRAFT

		Sample Designation:	MW-101	MW-101	MW-102	MW-103	MW-104	MW-105
		Sample Date:	19 Feb 2016	19 Feb 2016	19 Feb 2016	19 Feb 2016	18 Feb 2016	19 Feb 2016
		Sample Type:	FD	N	N	N	N	N
		Total or Dissolved:	T	T	T	T	T	T
Parameter	NYSDEC Ambient Water Quality Standards	NYSDEC Ambient Water Quality Guidance Values						
1,2,4,5-Tetrachlorobenzene	--	--	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	--	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	3	--	2 U	2 U	2 U	2 U	2 U	2 U
1,3-Dichlorobenzene	3	--	2 U	2 U	2 U	2 U	2 U	2 U
1,4-Dichlorobenzene	3	--	2 U	2 U	2 U	2 U	2 U	2 U
2,4,5-Trichlorophenol	--	--	5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	--	--	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	5	--	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	--	50	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dinitrophenol	--	10	20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	5	--	5 U	5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	5	--	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	--	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Chlorophenol	--	--	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Methylphenol (O-Cresol)	--	--	5 U	5 U	5 U	5 U	5 U	5 U
2-Nitroaniline	5	--	5 U	5 U	5 U	5 U	5 U	5 U
2-Nitrophenol	--	--	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5	--	5 U	5 U	5 U	5 U	5 U	5 U
3- And 4- Methylphenol (Total)	--	--	5 U	5 U	5 U	5 U	5 U	5 U
3-Nitroaniline	5	--	5 U	5 U	5 U	5 U	5 U	5 U
4,6-Dinitro-2-Methylphenol	--	--	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl Phenyl Ether	--	--	2 U	2 U	2 U	2 U	2 U	2 U
4-Chloroaniline	5	--	5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorophenyl Phenyl Ether	--	--	2 U	2 U	2 U	2 U	2 U	2 U
4-Nitroaniline	5	--	5 U	5 U	5 U	5 U	5 U	5 U
4-Nitrophenol	--	--	10 U	10 U	10 U	10 U	4.2 J	10 U
Acenaphthene	--	20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Acenaphthylene	--	20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Acetophenone	--	--	5 U	5 U	5 U	5 U	5 U	5 U
Anthracene	--	50	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(A)Anthracene	--	**0.002**	0.2 U	0.2 U	**0.11 J**	0.2 U	0.2 U	0.2 U
Benzo(A)Pyrene	**0**	--	0.2 U	0.2 U	**0.11 J**	0.2 U	0.2 U	0.2 U
Benzo(B)Fluoranthene	--	**0.002**	0.2 U	0.2 U	**0.15 J**	0.2 U	0.2 U	0.2 U
Benzo(G,H,I)Perylene	--	--	0.2 U	0.2 U	0.07 J	0.2 U	0.2 U	0.2 U
Benzo(K)Fluoranthene	--	**0.002**	0.2 U	0.2 U	**0.06 J**	0.2 U	0.2 U	0.2 U
Benzoic Acid	--	--	50 U	50 U	50 U	50 U	17 J	50 U
Benzyl Alcohol	--	--	2 U	2 U	2 U	2 U	2 U	2 U
Biphenyl (Diphenyl)	--	--	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-Chloroethoxy) Methane	5	--	5 U	5 U	5 U	5 U	5 U	5 U

Table 5B. Summary of Semivolatile Organic Compounds in Groundwater, 93 Dupont Street, Brooklyn, New York

DRAFT

		Sample Designation:	MW-101	MW-101	MW-102	MW-103	MW-104	MW-105
		Sample Date:	19 Feb 2016	19 Feb 2016	19 Feb 2016	19 Feb 2016	18 Feb 2016	19 Feb 2016
		Sample Type:	FD	N	N	N	N	N
		Total or Dissolved:	T	T	T	T	T	T
Parameter	NYSDEC Ambient Water Quality Standards	NYSDEC Ambient Water Quality Guidance Values						
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	--	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-Chloroisopropyl) Ether	5	--	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-Ethylhexyl) Phthalate	5	--	3 U	3 U	3 U	3.9	4.7	3 U
Benzyl Butyl Phthalate	--	50	5 U	5 U	5 U	5 U	5 U	5 U
Carbazole	--	--	2 U	2 U	2 U	2 U	2 U	2 U
Chrysene	--	**0.002**	0.2 U	0.2 U	**0.1 J**	0.2 U	0.2 U	0.2 U
Dibenz(A,H)Anthracene	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibenzofuran	--	--	2 U	2 U	2 U	2 U	2 U	2 U
Diethyl Phthalate	--	50	5 U	5 U	5 U	5 U	5 U	5 U
Dimethyl Phthalate	--	50	5 U	5 U	5 U	5 U	5 U	5 U
Di-N-Butyl Phthalate	50	--	5 U	5 U	5 U	5 U	5 U	5 U
Di-N-Octylphthalate	--	--	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	--	50	0.2 U	0.2 U	0.17 J	0.2 U	0.2 U	0.2 U
Fluorene	--	50	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Hexachlorobenzene	0.04	--	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Hexachlorobutadiene	0.5	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5	--	20 U	20 U	20 U	20 U	20 U	20 U
Hexachloroethane	5	--	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Indeno(1,2,3-C,D)Pyrene	--	**0.002**	0.2 U	0.2 U	**0.08 J**	0.2 U	0.2 U	0.2 U
Isophorone	--	50	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	--	10	0.2 U	0.2 U	0.06 J	0.2 U	0.2 U	0.2 U
Nitrobenzene	0.4	--	2 U	2 U	2 U	2 U	2 U	2 U
N-Nitrosodiphenylamine	--	50	2 U	2 U	2 U	2 U	2 U	2 U
N-Nitrosodi-N-Propylamine	--	--	5 U	5 U	5 U	5 U	5 U	5 U
4-Chloro-3-Methylphenol	--	--	2 U	2 U	2 U	2 U	2 U	2 U
Pentachlorophenol	1	--	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Phenanthrene	--	50	0.2 U	0.2 U	0.08 J	0.2 U	0.2 U	0.2 U
Phenol	**1**	--	5 U	5 U	5 U	5 U	**3.5 J**	5 U
Pyrene	--	50	0.2 U	0.2 U	0.16 J	0.2 U	0.2 U	0.2 U

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U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 5C. Summary of Metals in Groundwater, 93 Dupont Street, Brooklyn, New York **DRAFT**

		Sample Designation:	MW-101	MW-101	MW-101	MW-101	MW-102	MW-102	MW-103	MW-103	MW-104	MW-104	MW-105	MW-105
		Sample Date:	19 Feb 2016	19 Feb 2016	19 Feb 2016	19 Feb 2016	19 Feb 2016	19 Feb 2016	19 Feb 2016	19 Feb 2016	18 Feb 2016	18 Feb 2016	19 Feb 2016	19 Feb 2016
		Sample Type:	FD	FD	N	N	N	N	N	N	N	N	N	N
		Total or Dissolved:	T	D	T	D	T	D	T	D	T	D	T	D
Parameter	NYSDEC Ambient Water Quality Standards	NYSDEC Ambient Water Quality Guidance Values												
Aluminum	--	--	0.232	0.002 J	6.87	0.005 J	25.2	0.003 J	2.5	0.01 U	0.116	0.013	6.56	0.004 J
Antimony	**0.003**	--	0.00111 J	0.0016 J	0.00172 J	0.0014 J	0.00229 J	0.0009 J	**0.00378**	**0.0036**	0.00197 J	**0.0031**	0.0021 J	0.0019 J
Arsenic	**0.025**	--	0.00308	0.002	0.01191	0.0015	**0.05676**	0.0021	0.00195	0.0012	0.00085	0.0009	0.00493	0.0014
Barium	1	--	0.02886	0.0256	0.07804	0.0298	0.7764	0.0327	0.03904	0.0241	0.01147	0.0108	0.09051	0.0361
Beryllium	--	0.003	0.0005 U	0.0005 U	0.00079	0.0005 U	0.00253	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.00042 J	0.0005 U
Cadmium	0.005	--	0.0002 U	0.0002 U	0.00021	0.0002 U	0.00185	0.0005	0.00023	0.00017 J	0.0002 U	0.0002 U	0.00017 J	0.0002 U
Calcium	--	--	80.1	64.4	80.4	73.5	204	156	185	163	86.6	64.6	214	180
Chromium, Total	**0.05**	--	0.00181	0.0009 J	0.01849	0.0009 J	**0.0727**	0.0019	0.00501	0.0018	0.00155	0.0015	0.01469	0.002
Cobalt	--	--	0.00156	0.0013	0.00979	0.0018	0.03115	0.0018	0.00418	0.0026	0.00047	0.0004 J	0.0082	0.0005
Copper	0.2	--	0.00277	0.0014	0.01909	0.0017	0.1008	0.003	0.00958	0.0019	0.0013	0.001	0.01752	0.0039
Iron	**0.3**	--	**1.26**	**0.338**	**15**	0.05 U	**43.9**	0.05 U	**3.34**	0.05 U	0.181	0.05 U	**11**	0.05 U
Lead	**0.025**	--	0.00099 J	0.0002 J	0.01395	0.0002 J	**1.901**	**0.0255**	0.00348	0.002 U	0.001 U	0.002 U	0.01454	0.002 U
Magnesium	--	--	7.71	6.45	9.8	7.92	41.9	37.5	32.3	32.1	7.68	7.64	37.9	36.5
Manganese	**0.3**	--	0.2383	0.2132	**0.3354**	0.2002	**1.084**	**0.3949**	0.1512	0.1115	0.08462	0.083	**0.6146**	0.135
Mercury	**0.0007**	--	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.00175**	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.1	--	0.00313	0.0015 J	0.0147	0.0021	0.05251	0.0039	0.01278	0.0087	0.00271	0.0026	0.01717	0.003
Potassium	--	--	14.4	12.8	15.1	15.4	12.6	11.8	10.7	11.1	11.7	11	13.4	13.6
Selenium	**0.01**	--	**0.0219**	**0.017**	**0.0306**	**0.029**	**0.0103**	0.008	**0.0437**	**0.043**	0.00669	0.006	**0.0226**	**0.02**
Silver	0.05	--	0.0004 U	0.0005 U	0.0004 U	0.0004 U	0.00033 J	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Sodium	--	--	55.5	45	57.5	56.1	43.7	46.9	64	56.6	24	23.8	26.8	27
Thallium	--	**0.0005**	0.0005 U	0.0004 U	6E-05 J	0.0005 U	**0.00056**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Vanadium	--	--	0.00175 J	0.005 U	0.03199	0.0006 J	0.1167	0.0026 J	0.00614	0.0016 J	0.00157 J	0.0009 J	0.01871	0.001 J
Zinc	--	2	0.00466 J	0.0095 J	0.06507	0.0079 J	0.6424	0.0267	0.05378	0.0292	0.00289 J	0.0142	0.07757	0.014

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Table 5D. Summary of Polychlorinated Biphenyls in Groundwater, 93 Dupont Street, Brooklyn, New York **DRAFT**

		Sample Designation:	MW-101	MW-101	MW-102	MW-103	MW-104	MW-105
		Sample Date:	19 Feb 2016	19 Feb 2016	19 Feb 2016	19 Feb 2016	18 Feb 2016	19 Feb 2016
		Sample Type:	FD	N	N	N	N	N
		Total or Dissolved:	T	T	T	T	T	T
Parameter	NYSDEC Ambient Water Quality Standards	NYSDEC Ambient Water Quality Guidance Values						
PCB-1016 (Aroclor 1016)	--	--	0.083 U	0.083 U	0.115 U	0.083 U	0.083 U	0.083 U
PCB-1221 (Aroclor 1221)	--	--	0.083 U	0.083 U	0.115 U	0.083 U	0.083 U	0.083 U
PCB-1232 (Aroclor 1232)	--	--	0.083 U	0.083 U	0.115 U	0.083 U	0.083 U	0.083 U
PCB-1242 (Aroclor 1242)	--	--	0.083 U	0.083 U	0.115 U	0.083 U	0.083 U	0.083 U
PCB-1248 (Aroclor 1248)	--	--	0.083 U	0.083 U	0.115 U	0.083 U	0.083 U	0.083 U
PCB-1254 (Aroclor 1254)	--	--	0.083 U	0.083 U	0.115 U	0.083 U	0.083 U	0.083 U
PCB-1260 (Aroclor 1260)	--	--	0.083 U	0.083 U	0.115 U	0.083 U	0.083 U	0.083 U
PCB-1262 (Aroclor 1262)	--	--	0.083 U	0.083 U	0.115 U	0.083 U	0.083 U	0.083 U
PCB-1268 (Aroclor 1268)	--	--	0.083 U	0.083 U	0.115 U	0.083 U	0.083 U	0.083 U
Polychlorinated Biphenyl (PCBs)	0.09	--	0.083 U	0.083 U	0.115 U	0.083 U	0.083 U	0.083 U

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Table 5E. Summary of Pesticides in Groundwater, 93 Dupont Street, Brooklyn, New York **DRAFT**

		Sample Designation:	MW-101	MW-101	MW-102	MW-103	MW-104	MW-105
		Sample Date:	19 Feb 2016	19 Feb 2016	19 Feb 2016	19 Feb 2016	18 Feb 2016	19 Feb 2016
		Sample Type:	FD	N	N	N	N	N
		Total or Dissolved:	T	T	T	T	T	T
Parameter	NYSDEC Ambient Water Quality Standards	NYSDEC Ambient Water Quality Guidance Values						
P,P'-DDD	0.3	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
P,P'-DDE	0.2	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
P,P'-DDT	0.2	--	0.04 U	0.04 U	0.018 J	0.04 U	0.04 U	0.04 U
Aldrin	0	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	--	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Beta Bhc (Beta Hexachlorocyclohexane)	--	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Chlordane	0.05	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-Chlordane	--	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Delta BHC (Delta Hexachlorocyclohexane)	--	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Dieldrin	0.004	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Alpha Endosulfan	--	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Beta Endosulfan	--	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan Sulfate	--	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endrin	0	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endrin Aldehyde	5	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endrin Ketone	--	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Heptachlor	0.04	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor Epoxide	0.03	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Gamma Bhc (Lindane)	--	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Methoxychlor	35	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toxaphene	0.06	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-Chlordane	0	0	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

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Table 6. Summary of Indoor Air and Soil Vapor Chemical Results, 93 Dupont Street, Brooklyn, New York **DRAFT**

Parameter	NYSDOH Air Guideline Value	Sub-Slab Vapor Concentration for Indoor Air Concentration < 0.25 Matrix 1 Monitor	Matrix 1 Mitigate	Matrix 2 Monitor	Matrix 2 Mitigate	Sample Designation: Sample Date: Units	IA-301 2/18/2016	OA-302 2/18/2016	OA-303 2/18/2016	SV-201 2/18/2016	SV-202 2/18/2016	SV-203 2/18/2016	SV-204 2/18/2016	SV-205 2/18/2016	SV-206 2/18/2016	SV-207 2/18/2016
1,1,1-Trichloroethane	--	--	--	100	1000	UG/M3	0.109 U	0.109 U	0.109 U	**1.42**	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1,2,2-Tetrachloroethane	--	--	--	--	--	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	--	--	--	UG/M3	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	--	--	--	--	--	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	--	--	--	--	--	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	--	--	--	100	1000	UG/M3	0.079 U	0.079 U	0.079 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
1,2,4-Trichlorobenzene	--	--	--	--	--	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	--	--	--	--	--	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	**1.29**	**1.29**	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	--	--	--	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	--	--	--	--	--	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	--	--	--	--	--	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	--	--	--	--	--	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	--	--	--	--	--	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	--	--	--	--	--	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	--	--	--	--	--	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	**1.21**	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	--	--	--	--	--	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	--	--	--	--	--	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	**2.9**	**2.54**	1.2 U	1.2 U	**2.86**	**3.18**
1,4-Dioxane (P-Dioxane)	--	--	--	--	--	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	--	--	--	--	--	UG/M3	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
2-Hexanone	--	--	--	--	--	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	--	--	--	--	--	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	--	--	--	--	--	UG/M3	**4.3**	**3.61**	**3.16**	**15.3**	**4.94**	**5.8**	**23.8**	**24.7**	**13.9**	**8.01**
Allyl Chloride (3-Chloropropene)	--	--	--	--	--	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	--	--	--	--	--	UG/M3	0.639 U	0.639 U	0.639 U	**0.843**	**1.97**	0.639 U	0.639 U	**2.67**	**0.907**	**0.783**
Benzyl Chloride	--	--	--	--	--	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	--	--	--	--	--	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	--	--	--	--	--	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	--	--	--	--	--	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	--	--	--	--	--	UG/M3	0.623 U	0.623 U	0.623 U	**5.17**	**13.1**	**0.797**	**54.5**	**3.21**	**7.32**	**9.68**
Carbon Tetrachloride	--	5*	250	--	--	UG/M3	**0.377**	**0.377**	**0.377**	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U
Chlorobenzene	--	--	--	--	--	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	--	--	--	--	--	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform	--	--	--	--	--	UG/M3	0.977 U	0.977 U	0.977 U	**15.1**	**2.61**	**10.8**	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	--	--	--	--	--	UG/M3	**1.02**	**0.927**	**0.964**	**0.597**	0.413 U	0.413 U	**0.417**	0.413 U	0.413 U	0.413 U
Cis-1,2-Dichloroethylene	--	--	--	100	1000	UG/M3	0.079 U	0.079 U	0.079 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Cis-1,3-Dichloropropene	--	--	--	--	--	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	--	--	--	--	--	UG/M3	0.688 U	0.688 U	0.688 U	**0.85**	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	--	--	--	--	--	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	--	--	--	--	--	UG/M3	**2.25**	**2.48**	**2.2**	**1.14**	0.989 U	**1.56**	0.989 U	**1.34**	**1.16**	**1.14**
Ethanol	--	--	--	--	--	UG/M3	9.42 U	9.42 U	9.42 U	9.42 U	9.42 U	9.42 U	**20.3**	**18.1**	9.42 U	9.42 U

Table 6. Summary of Indoor Air and Soil Vapor Chemical Results, 93 Dupont Street, Brooklyn, New York **DRAFT**

Parameter	NYSDOH Air Guideline Value	Sub-Slab Vapor Concentration for Indoor Air Concentration < 0.25 Matrix 1 Monitor	Matrix 1 Mitigate	Matrix 2 Monitor	Matrix 2 Mitigate	Units	Sample Designation: IA-301 Sample Date: 2/18/2016	OA-302 2/18/2016	OA-303 2/18/2016	SV-201 2/18/2016	SV-202 2/18/2016	SV-203 2/18/2016	SV-204 2/18/2016	SV-205 2/18/2016	SV-206 2/18/2016	SV-207 2/18/2016
Ethyl Acetate	--	--	--	--	--	UG/M3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.21**	1.8 U	1.8 U	1.8 U
Ethylbenzene	--	--	--	--	--	UG/M3	0.869 U	0.869 U	0.869 U	**0.877**	**2.76**	0.869 U	**1.33**	**1.94**	**0.934**	**1.36**
Hexachlorobutadiene	--	--	--	--	--	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	--	--	--	--	--	UG/M3	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	**1.36**	1.23 U	1.23 U	1.23 U
m,p-Xylene	--	--	--	--	--	UG/M3	1.74 U	1.74 U	1.74 U	**3.51**	**8.86**	**1.94**	**6.3**	**7.56**	**2.83**	**5.08**
Methyl Ethyl Ketone (2-Butanone)	--	--	--	--	--	UG/M3	1.47 U	1.47 U	1.47 U	**2.78**	**2.4**	**1.83**	**3.42**	**2.07**	**2.73**	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	--	--	--	UG/M3	2.05 U	2.05 U	2.05 U	**2.14**	**3.54**	2.05 U	**2.68**	2.05 U	2.05 U	2.05 U
Methylene Chloride	60	--	--	--	--	UG/M3	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**3.58**	1.74 U
N-Heptane	--	--	--	--	--	UG/M3	0.82 U	0.82 U	0.82 U	**1.05**	**1.89**	0.82 U	0.82 U	0.82 U	**1.77**	**0.971**
N-Hexane	--	--	--	--	--	UG/M3	0.705 U	0.705 U	0.705 U	0.705 U	**4.86**	0.705 U	**0.867**	**0.955**	**5.89**	**2.4**
O-Xylene (1,2-Dimethylbenzene)	--	--	--	--	--	UG/M3	0.869 U	0.869 U	0.869 U	**1.74**	**4.07**	**0.969**	**2.47**	**3.12**	**1.56**	**2.89**
Styrene	--	--	--	--	--	UG/M3	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	--	--	--	--	--	UG/M3	1.52 U	1.52 U	1.52 U	**2.45**	1.52 U	1.52 U	**6.43**	**3.76**	1.52 U	1.52 U
Tert-Butyl Methyl Ether	--	--	--	--	--	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrachloroethylene (PCE)	100	--	--	100	1000	UG/M3	**0.197**	**0.142**	**0.224**	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U
Tetrahydrofuran	--	--	--	--	--	UG/M3	1.47 U	1.47 U	1.47 U	**1.64**	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	--	--	--	--	--	UG/M3	0.754 U	0.754 U	0.754 U	**3.09**	**1.57**	0.754 U	**2.31**	**4.03**	**1.05**	**1.27**
Trans-1,2-Dichloroethene	--	--	--	--	--	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	--	--	--	--	--	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichloroethylene (TCE)	5	50	250	--	--	UG/M3	0.107 U	0.107 U	0.107 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U
Trichlorofluoromethane	--	--	--	--	--	UG/M3	**1.24**	**1.21**	**1.24**	1.12 U	1.12 U	**1.24**	**1.24**	1.12 U	**1.25**	1.12 U
Vinyl Bromide	--	--	--	--	--	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U
Vinyl Chloride	--	50	250	--	--	UG/M3	0.051 U	0.051 U	0.051 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U

U - Indicates that the compound was analyzed for but not detected

ug/m3 - Micrograms per cubic meter

Bold data indicates that parameter was detected

Shaded data indicates that parameter was detected above levels to be monitored in accordance with the Final NYSDOH CEH BEEI Soil Vapor Intrusion Guidance of October 2006

Boxed data indicates that parameter was detected above levels to be mitigated in accordance with the Final NYSDOH CEH BEEI Soil Vapor Intrusion Guidance of October 2006

* - Sub-Slab Vapor concentration action for Indoor Air Concentration at 0.25 to < 1

NYSDOH - New York State Department of Health

CEH - Center for Environmental Health

BEEI - Bureau of Environmental Exposure Investigation