DCA 1 APARTMENTS

BROOKLYN, NEW YORK

Final Engineering Report

NYSDEC Site Number: C224162

Prepared for:

DCA 1, L.P.
c/o Omni New York LLC
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Prepared by:

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SEPTEMBER 2016

CERTIFICATIONS

I, Gary A. Rozmus, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Action Work Plan was implemented and that all construction activities were completed in substantial conformance with the Department-approved Remedial Action Work Plan.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the Remedial Action Work Plan and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by the Department.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Gary Rozmus, of GEI Consultants, Inc., P.C.,110 Walt Whitman Road, Suite 204, Huntington Station, NY 11746, am certifying as Owner's Designated Site Representative for the site.

056744	9/12/2016	
NYS Professional Engineer #	Date	Signature

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LIST OF ACRONYMS

Acronym	Definition
BCA	Brownfield Cleanup Agreement
CAMP	Community Air Monitoring Plan
DER	Department of Environmental Remediation
ECL	Environmental Conservation Law
FER	Final Engineering Report
GEI	GEI Consultants, Inc., P. C.
HASP	Health and Safety Plan
IC/ECs	Institutional Controls/Engineering Controls
NYCRR	New York Code of Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OSHA	Occupational Safety and Health Administration
PCBs	Polychlorinated Biphenyls
PCE	Tetrachloroethene
RAOs	Remedial Action Objectives
RAWP	Remedial Action Work Plan
RI	Remedial Investigation
RIR	Remedial Investigation Report
RIWP	Remedial Investigation Work Plan
SCOs	Soil Cleanup Objective
SMP	Site Management Plan
SoMP	Soils/Materials Management Plan
SVOCs	Semi-Volatile Organic Compounds
SWPPP	Storm-Water Pollution Prevention Plan
TCE	Trichloroethene
TR	Technical Report
RRSCOs	Restricted Residential Soil Cleanup Objectives
UUSCOs	Unrestricted Use Soil Cleanup Objectives
VOCs	Volatile Organic Compounds
Measurement	**Definition**
bgs	Below ground surface
mcg/m^3	Microgram per cubic meter
$\mu g/m^3$	Microgram per cubic meter

FINAL ENGINEERING REPORT

1.0 BACKGROUND AND SITE DESCRIPTION

DCA 1, L.P. entered into a Brownfield Cleanup Agreement (BCA), with the New York State Department of Environmental Conservation (NYSDEC) in September 2012, to investigate and remediate a 0.019 acre property located in Brooklyn, Kings County New York. The property was remediated to restricted residential, use, and will continue to be used for its current purpose as a walkway and driveway, with an open fenced-off area.

The site is located in the County of Kings, New York and is identified as a portion of Block 1467 and Lot 1. The site is situated on an approximately 818 square foot area bounded by open space followed by a residential building to the north, Sterling Place to the south, a residential building to the east, and Howard Avenue to the west (see **Figure 1)**. The boundaries of the site are fully described in **Appendix A**: Survey Map, Metes and Bounds.

An electronic copy (CD) of this FER with all supporting documentation is included as **Appendix B**.

2.0 SUMMARY OF SITE REMEDY

2.1 REMEDIAL ACTION OBJECTIVES

Based on the results of the Remedial Investigation, the following Remedial Action Objectives (RAOs) were identified for this site.

2.1.1 Groundwater RAOs

RAOs for Public Health Protection

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.

2.1.2 Soil RAOs

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.

2.1.3 Soil Vapor RAOs

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings around the site.

2.2 DESCRIPTION OF SELECTED REMEDY

The site was remediated in accordance with the remedy selected by the NYSDEC in the Decision Document dated October 2015.

The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the selected remedy:

1. Construction and maintenance of a soil cover system consisting of the pavement or sidewalks comprising the site development, and a system of

porous pavers and a tree grate over the previously uncapped grassy portion of the site to prevent human exposure to remaining contaminated soil/fill.

2. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the site.

3. Development and implementation of a Site Management Plan (SMP) for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting.

4. Periodic certification of the institutional and engineering controls listed above.

3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS

The remedy for this site was performed as a single project, and no interim remedial measures, operable units or separate construction contracts were performed.

4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved Remedial Action Work Plan (RAWP)] for the DCA 1 Apartments site (October 2015). All deviations from the RAWP are noted below.

4.1 GOVERNING DOCUMENTS

4.1.1 Site Specific Health & Safety Plan (HASP)

All remedial work performed under this Remedial Action was in full compliance with governmental requirements, including Site and worker safety requirements mandated by Federal OSHA.

The Health and Safety Plan (HASP) was complied with for all remedial and invasive work performed at the Site.

4.1.2 Soil/Materials Management Plan (S/MMP)

No soil was significantly disturbed during the installation of the remedy and no soils management plans were needed to comply with Federal, State and local laws and regulations.

4.1.3 Storm-Water Pollution Prevention Plan (SWPPP)

The erosion and sediment controls for all remedial construction were performed in conformance with requirements presented in the New York State Guidelines for Urban Erosion and Sediment Control a site-specific Storm Water Pollution Prevention Plan was not required in accordance with regulatory requirements.

4.1.4 Community Air Monitoring Plan (CAMP)

Real-time air monitoring for particulate levels at the perimeter of the work area was performed. Continuous monitoring was performed during the installation of the remedy.

There were no exceedances of action levels observed during performance of the CAMP. CAMP measurements and observations were reported to the NYSDEC Project Manager and included in the Daily Report.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations were monitored continuously at the upwind and downwind perimeters of the work zone at temporary particulate monitoring stations. The particulate monitoring was performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment was equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration was visually assessed during all work activities.

4.1.5 Contractors Site Operations Plans (SOPs)

The engineer and registered landscape architect reviewed all plans and submittals for this remedial project (i.e. those listed above plus contractor submittals) and confirmed that they were in compliance with the RAWP. All remedial documents were submitted to NYSDEC and New York State Department of Health (NYSDOH) in a timely manner and prior to the start of work.

4.1.6 Community Participation Plan

The pertinent elements of the Community Participation Plan that were performed during the Remedial Action and those elements that pertain to the remainder of the remedial program are summarized below.

- A Fact Sheet was generated and mailed to the site contact list describing the remedial action prior to starting construction.
- A second Fact Sheet was prepared and mailed to the site contact list describing the Final Engineering Report (FER) and the Institutional Controls/Engineering Controls (IC/ECs).
- The approved FER will be placed in the document repository.

4.2 REMEDIAL PROGRAM ELEMENTS

4.2.1 Contractors and Consultants

- Royal Star Associates, Inc. installed the cover system.
- Laura Schwanof, RLA is the architect responsible for the remedial design and installation inspections.

- Gary Rozmus, P.E. is the certifying Engineer of Record responsible for certification of the work.

4.2.2 Site Preparation

A pre-construction meeting was held with NYSDEC and all contractors on January 22, 2016. The meeting reviewed the means and methods for the remedy installation including site security, record keeping, erosion and sedimentation controls, and community nuisance controls.

Documentation of agency approvals required by the RAWP and the decision document is included in Appendix C. The New York City Department of Building permit and Technical Report (TR) forms relating to the remediation project are provided in Appendix D.

A NYSDEC-approved project sign was erected at the project entrance and remained in place during all phases of the Remedial Action.

4.2.3 General Site Controls

- Site security; the work zone is surrounded by perimeter fencing.
- Job site record keeping; work tasks, schedule, weather conditions, field and visitor personnel, important issues or deviations, community air monitoring data and site photographs were recorded in a daily report.
- Erosion and sedimentation controls; no erosion or sedimentation controls were required in the installation of the porous paver surface cover system.
- Problems encountered; the tree grate opening had to be modified to accommodate the tree tru**nk and the tree truck was trimmed.**

4.2.4 Nuisance controls

- Dust control; water was used to suppress any generated concrete dust during the cutting of the concrete pavers and perimeter concrete curbing.

4.2.5 CAMP results

No exceedances of VOC’s or dust were measured during the work activity.

CAMP data collection results are presented in the daily reports found in Appendix E.

4.2.6 Reporting

Daily reports were submitted to NYSDEC and NYSDOH Project Managers by the end of each day following the reporting period and included:

- An update of progress made during the reporting day;
- A summary of any and all complaints with relevant details (names, phone numbers);
- A summary of CAMP finding, including excursions;
- An explanation of notable Site conditions.

All daily reports are included in electronic format in Appendix E.

The digital photo log required by the RAWP is included in electronic format in Appendix F.

4.3 CONTAMINATION REMAINING AT THE SITE

Since no excavation is required for the remedy, soil contamination remaining at the site under the soil cover system will be the same as identified during the Remedial Investigation (RI).

No volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, herbicides or polychlorinated biphenyls (PCBs) were identified in the soil samples collected during the remedial investigation exceeding restricted residential soil cleanup objectives (RRSCOs). Metals exceeding RRSCOs were limited to the shallow samples collected within the historic fill layer. Tetrachloroethene (PCE) detections in soil identified during the initial investigation were all below the unrestricted use soil cleanup objective (UUSCO) of 1.3 parts per million (ppm). No evidence of an onsite source of PCE contamination was identified during the investigation. Metals exceeding the RRSCOs were limited to barium in the shallow samples collected from borings in the historic fill layer from 5 to 7 feet below ground surface (bgs). The samples exceeding the barium RRSCO of (350 ppm) were all within the same order of magnitude with concentrations identified up to a maximum concentration of 774 ppm.

Table 1 and Figure 3 summarize the data from all soil samples collected that exceed the Track 1 (unrestricted) SCOs which will remain on-site after completion of the Remedial Action.

None of the groundwater samples collected during the investigations were found to exceed groundwater standards for SVOCs, pesticides, PCBs or herbicides. Samples exceeding the groundwater standards for VOCs were primarily limited to PCE, which was detected in each of the monitoring wells sampled and was detected above the groundwater standard in seven of the eleven monitoring wells. Detections above the 5 ppb standard ranged from 7 parts per billion (ppb) to 71 ppb in onsite monitoring wells. Three of the seven monitoring wells with detections of PCE above the groundwater standards were identified in upgradient offsite monitoring well clusters. PCE was detected in each of the five upgradient wells sampled, with concentrations ranging up to 31 parts per billion (ppb). No onsite source of groundwater contamination has been identified and it appears that the VOCs found in the groundwater both on and offsite are due to an upgradient offsite source or sources. Total metals exceeding the groundwater standards were identified in each of the monitoring wells sampled. The metal exceeding the groundwater standards included chromium at 273 ppb. This metal appears to be naturally occurring.

Elevated concentrations of PCE were detected in soil vapor at 3 of 4 soil vapor sampling points at concentrations ranging from 278 micrograms per cubic meter ($\mu g/m^3$) to 4,207 $\mu g/m^3$. Trichloroethylene (TCE), a breakdown product of PCE, was also detected in soil vapor at a maximum concentration of 69.9 $\mu g/m^3$. No on-site source of soil vapor was identified. Additional sampling was conducted off-site in November 2015. That sampling did not identify an offsite source and the concentrations detected did not warrant any further remedial action.

Since contaminated soil, groundwater and soil vapor remains beneath the site after completion of the Remedial Action, Institutional and Engineering Controls are required to protect human health and the environment. These Engineering and Institutional Controls (ECs/ICs) are described in the following sections. Long-term management of these EC/ICs and residual contamination will be performed under the Site Management Plan (SMP) approved by the NYSDEC.

4.4 SOIL COVER SYSTEM

Exposure to remaining contamination in soil/fill at the site is prevented by a soil cover system placed over the site. This cover system is comprised of the existing pavement and sidewalks comprising the site development, and a system of installed porous pavers and iron tree grates over the previously uncapped portion of the site. Figure 4 shows the location of the cover system at the Site. Appendix H presents the soil

cover system as-built diagrams and design drawings. An Excavation Work Plan, which outlines the procedures required in the event the cover system and/or underlying residual contamination are disturbed, is provided in Appendix C of the SMP.

4.5 OTHER ENGINEERING CONTROLS

The remedy for the site did not require the construction of any other engineering control systems.

Procedures for monitoring and inspection of the soil cover system are provided in the Monitoring Plan in Section 4 of the Site Management Plan (SMP).

4.6 INSTITUTIONAL CONTROLS

The site remedy requires that an environmental easement be placed on the property to (1) implement, maintain and monitor the Engineering Control; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to restricted residential, commercial or industrial uses only.

The environmental easement for the site was executed by the Department on July 25, 2016, and recorded or filed in the office of the city register of the City of New York on August 26, 2016. The city register file number is 2016000296357. A copy of the easement and proof of filing is provided in Appendix G.

4.7 DEVIATIONS FROM THE REMEDIAL ACTION WORK PLAN

There were no deviations from the approved RAWP.

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Table 1. Remaining Soil Sample Exceedances
Remedial Investigation Report
Omni New York DCA-1 Apartments
495 Howard Avenue
Brooklyn, New York

				Location Name	**SS4**	**SS4**	**SS4**	**SS4**	**SS4**	**SS4**	**SS4**	**SS4**	**SS4**	**SS4**	**SS4**	**SS4**	**SS4**	**SS4**
				Sample Name	**SS04A (16-18')**	**SS04A (18-20')**	**SS04A (20-22')**	**SS04A (22-24')**	**SS04A (24-26')**	**SS04A (26-28')**	**SS04A (28-30')**	**SS04A (30-32')**	**SS04A (32-34')**	**SS04A (34-36')**	**SS04A (36-38')**	**DUP**	**SS04A (38-40')**	**SS04A (40-42')**
				Start Depth	**16**	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**36**	**38**	**40**
				End Depth	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**38**	**40**	**42**
				Depth Unit	**ft**	**ft**	**ft**	**ft**	**ft**	**ft**	**ft**	**ft**	**ft**	**ft**	**ft**	**ft**	**ft**	**ft**
				Sample Date	**10/1/2014**	**10/1/2014**	**10/1/2014**	**10/1/2014**	**10/1/2014**	**10/1/2014**	**10/1/2014**	**10/1/2014**	**10/1/2014**	**10/1/2014**	**10/1/2014**	**10/1/2014**	**10/1/2014**	**10/1/2014**
				Parent Sample												**SS04A (36-38')**		
Analyte	**Units**	**CAS No.**	**Unrestricted SCO**	**Restricted-Residential SCO**														
BTEX	µg/kg																	
Benzene		71-43-2	60	2900	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Toluene		108-88-3	700	100000	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Ethylbenzene		100-41-4	1000	30000	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Total Xylene		1330-20-7	260	100000	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Other VOCs	µg/kg																	
Acetone		67-64-1	50	100000	**7 J**	**23 J**	8 UJ	**16 J**	7 UJ	**7 J**	**10 J**	**11 J**	**16 J**	8 UJ	12 UJ	10 UJ	**7 J**	9 UJ
Bromodichloromethane		75-27-4	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Bromoform		75-25-2	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Bromomethane		74-83-9	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Carbon disulfide		75-15-0	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Carbon tetrachloride		56-23-5	760	1400	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Chlorobenzene		108-90-7	1100	100000	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Chloroethane		75-00-3	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Chloroform		67-66-3	370	10000	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Chloromethane		74-87-3	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Cyclohexane		110-82-7	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
1,2-Dibromo-3-chloropropane		96-12-8	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Dibromochloromethane		124-48-1	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
1,2-Dibromoethane (EDB)		106-93-4	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
1,2-Dichlorobenzene		95-50-1	1100	100000	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
1,3-Dichlorobenzene		541-73-1	2400	17000	10 UJ	8 UJ	8 UJ	12 UJ	7 UJ	8 UJ	10 UJ	8 UJ	8 UJ	8 UJ	12 UJ	10 UJ	9 UJ	9 UJ
1,4-Dichlorobenzene		106-46-7	1800	9800	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Dichlorodifluoromethane (Freon 12)		75-71-8	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 UJ	9 U	9 U
1,1-Dichloroethane		75-34-3	270	19000	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
1,2-Dichloroethane		107-06-2	20	2300	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
1,1-Dichloroethene		75-35-4	330	100000	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
cis-1,2-Dichloroethene		156-59-2	250	59000	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
trans-1,2-Dichloroethene		156-60-5	190	100000	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
1,2-Dichloropropane		78-87-5	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
cis-1,3-Dichloropropene		10061-01-5	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
trans-1,3-Dichloropropene		10061-02-6	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
2-Hexanone		591-78-6	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Isopropyl benzene		98-82-8	NE	NE	10 UJ	8 UJ	8 UJ	12 UJ	7 UJ	8 UJ	10 UJ	8 UJ	8 UJ	8 UJ	12 UJ	10 UJ	9 UJ	9 UJ
Methyl acetate		79-20-9	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 UJ	9 U	9 U
Methyl ethyl ketone (2-Butanone)		78-93-3	120	100000	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	**3 J**	8 U	12 U	10 U	9 U	9 U
Methyl tert-butyl ether (MTBE)		1634-04-4	930	62000	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
4-Methyl-2-pentanone (MIBK)		108-10-1	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Methylcyclohexane		108-87-2	NE	NE	10 UJ	8 UJ	8 UJ	12 UJ	7 UJ	8 UJ	10 UJ	8 UJ	8 UJ	8 UJ	12 UJ	10 UJ	9 UJ	9 UJ
Methylene chloride		75-09-2	50	51000	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Styrene		100-42-5	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
1,1,2,2-Tetrachloroethane		79-34-5	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Tetrachloroethene (PCE)		127-18-4	1300	5500	**1 J**	**70**	**13**	**29**	**4 J**	**30**	**22**	**230 J**	**3 J**	**91**	**29 J**	**180 J**	**12 J**	**140**
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		76-13-1	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
1,2,4-Trichlorobenzene		120-82-1	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
1,1,1-Trichloroethane (TCA)		71-55-6	680	100000	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
1,1,2-Trichloroethane		79-00-5	NE	NE	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Trichloroethene (TCE)		79-01-6	470	10000	10 U	8 U	8 U	12 U	7 U	8 U	10 U	**2 J**	8 U	8 U	12 U	**2 J**	9 U	**3 J**
Trichlorofluoromethane (Freon 11)		75-69-4	NE	NE	10 U	8 U	8 U	12 U	**3 J**	**3 J**	10 U	**2 J**	**2 J**	**3 J**	**3 J**	10 U	9 U	9 U
Vinyl chloride		75-01-4	20	210	10 U	8 U	8 U	12 U	7 U	8 U	10 U	8 U	8 U	8 U	12 U	10 U	9 U	9 U
Total VOCs (ND=0)		TVOC_ND0	NE	NE	**8**	**93**	**13**	**45**	**7**	**40**	**32**	**245**	**24**	**94**	**32**	**182**	**19**	**143**
Other																		
Percent Moisture	%	MOIST	NE	NE	**8.4**	**11.4**	**9.4**	**20.1**	**8.2**	**9**	**10.4**	**9.7**	**6.9**	**9.2**	**9.3**	**8.1**	**9**	**8.2**

Table 1. Remaining Soil Sample Exceedances
Remedial Investigation Report
Omni New York DCA-1 Apartments
495 Howard Avenue
Brooklyn, New York

Analyte	Units	CAS No.	Unrestricted SCO	Restricted-Residential SCO	Location Name	SS4	SS4	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS5	SS6	SS6	SS6	SS6	SS6
					Sample Name	SS04A (42-44')	SS04A (44-45')	SS05 (30-32')	SS05 (32-34')	SS05 (34-36')	SS05 (36-38')	SS05 (38-40')	SS05 (40-42')	SS05 (42-44')	SS05 (44-45')	SS06A (30-32')	SS06A (32-34')	SS06A (34-36')	SS06A (36-38')	SS06A (38-40')
					Start Depth	42	44	30	32	34	36	38	40	42	44	30	32	34	36	38
					End Depth	44	45	32	34	36	38	40	42	44	45	32	34	36	38	40
					Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
					Sample Date	10/1/2014	10/1/2014	10/1/2014	10/1/2014	10/1/2014	10/1/2014	10/1/2014	10/1/2014	10/1/2014	10/1/2014	10/2/2014	10/2/2014	10/2/2014	10/2/2014	10/2/2014
					Parent Sample															
BTEX	µg/kg																			
Benzene		71-43-2	60	2900		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Toluene		108-88-3	700	100000		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Ethylbenzene		100-41-4	1000	30000		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Total Xylene		1330-20-7	260	100000		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Other VOCs	µg/kg																			
Acetone		67-64-1	50	100000		**16 J**	9 UJ	10 UJ	**6 J**	8 UJ	8 UJ	8 UJ	**8 J**	**8 J**	8 UJ	9 UJ	**8 J**	**70 J**	**10 J**	**22 J**
Bromodichloromethane		75-27-4	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Bromoform		75-25-2	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Bromomethane		74-83-9	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Carbon disulfide		75-15-0	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Carbon tetrachloride		56-23-5	760	1400		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Chlorobenzene		108-90-7	1100	100000		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Chloroethane		75-00-3	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Chloroform		67-66-3	370	10000		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Chloromethane		74-87-3	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Cyclohexane		110-82-7	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 UJ	10 UJ	9 UJ	9 UJ	8 UJ
1,2-Dibromo-3-chloropropane		96-12-8	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Dibromochloromethane		124-48-1	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 UJ	10 UJ	9 UJ	9 UJ	8 UJ
1,2-Dibromoethane (EDB)		106-93-4	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 UJ	10 UJ	9 UJ	9 UJ	8 UJ
1,2-Dichlorobenzene		95-50-1	1100	100000		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
1,3-Dichlorobenzene		541-73-1	2400	17000		14 UJ	9 UJ	10 UJ	9 UJ	8 UJ	8 UJ	8 UJ	8 U	9 UJ	8 UJ	9 U	10 U	9 U	9 U	8 U
1,4-Dichlorobenzene		106-46-7	1800	9800		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Dichlorodifluoromethane (Freon 12)		75-71-8	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 UJ	9 U	8 U	9 U	10 U	9 U	9 U	8 U
1,1-Dichloroethane		75-34-3	270	19000		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
1,2-Dichloroethane		107-06-2	20	2300		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
1,1-Dichloroethene		75-35-4	330	100000		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
cis-1,2-Dichloroethene		156-59-2	250	59000		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
trans-1,2-Dichloroethene		156-60-5	190	100000		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
1,2-Dichloropropane		78-87-5	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
cis-1,3-Dichloropropene		10061-01-5	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
trans-1,3-Dichloropropene		10061-02-6	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
2-Hexanone		591-78-6	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Isopropyl benzene		98-82-8	NE	NE		14 UJ	9 UJ	10 UJ	9 UJ	8 UJ	8 UJ	8 UJ	8 UJ	9 UJ	8 UJ	9 UJ	10 UJ	9 UJ	9 UJ	8 UJ
Methyl acetate		79-20-9	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 UJ	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Methyl ethyl ketone (2-Butanone)		78-93-3	120	100000		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	**14**	9 U	8 U
Methyl tert-butyl ether (MTBE)		1634-04-4	930	62000		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
4-Methyl-2-pentanone (MIBK)		108-10-1	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Methylcyclohexane		108-87-2	NE	NE		14 UJ	9 UJ	10 UJ	9 UJ	8 UJ	8 UJ	8 UJ	8 UJ	9 UJ	8 UJ	9 UJ	10 UJ	9 UJ	9 UJ	8 UJ
Methylene chloride		75-09-2	50	51000		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Styrene		100-42-5	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
1,1,2,2-Tetrachloroethane		79-34-5	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Tetrachloroethene (PCE)		127-18-4	1300	5500		**25**	**2 J**	**180**	**19**	**14**	**20**	**15**	**81**	**76**	**17**	**110**	**180**	**110**	**94**	**150**
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		76-13-1	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
1,2,4-Trichlorobenzene		120-82-1	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
1,1,1-Trichloroethane (TCA)		71-55-6	680	100000		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
1,1,2-Trichloroethane		79-00-5	NE	NE		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 UJ	10 UJ	9 UJ	9 UJ	8 UJ
Trichloroethene (TCE)		79-01-6	470	10000		14 U	9 U	**2 J**	9 U	8 U	8 U	8 U	**0.9 J**	**1 J**	8 U	9 U	**1 J**	9 U	9 U	**0.8 J**
Trichlorofluoromethane (Freon 11)		75-69-4	NE	NE		14 U	**4 J**	10 U	**3 J**	8 U	**1 J**	8 U	**1 J**	9 U	8 U	**2 J**	10 U	**2 J**	9 U	8 U
Vinyl chloride		75-01-4	20	210		14 U	9 U	10 U	9 U	8 U	8 U	8 U	8 U	9 U	8 U	9 U	10 U	9 U	9 U	8 U
Total VOCs (ND=0)		TVOC_ND0	NE	NE		**41**	**6**	**182**	**28**	**14**	**21**	**15**	**90.9**	**85**	**17**	**112**	**189**	**196**	**104**	**172.8**
Other																				
Percent Moisture	%	MOIST	NE	NE		**9.7**	**7.7**	**13.3**	**8.6**	**9.6**	**7.9**	**8.7**	**9.8**	**9.7**	**8.9**	**9.6**	**8.4**	**12.5**	**11.7**	**9.7**

Table 1. Remaining Soil Sample Exceedances
Remedial Investigation Report
Omni New York DCA-1 Apartments
495 Howard Avenue
Brooklyn, New York

				Location Name	SS6	SS6	SS6	SS6	SS6	SS6	SS6	SS6	SS6	SS6	SS6
				Sample Name	SS06A (40-42')	SS06A (42-44')	SS06A (44-46')	SS06A (46-48')	SS06A (48-50')	SS06A (50-52')	SS06A (52-54')	DUP-2	SS06A (54-56')	SS06A (56-58')	SS06A (58-60')
				Start Depth	40	42	44	46	48	50	52	52	54	56	58
				End Depth	42	44	46	48	50	52	54	54	56	58	60
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
				Sample Date	10/2/2014	10/2/2014	10/2/2014	10/2/2014	10/2/2014	10/2/2014	10/2/2014	10/2/2014	10/2/2014	10/2/2014	10/2/2014
				Parent Sample								SS06A (52-54')			
Analyte	**Units**	**CAS No.**	**Unrestricted SCO**	**Restricted-Residential SCO**											
BTEX	µg/kg														
Benzene		71-43-2	60	2900	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Toluene		108-88-3	700	100000	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Ethylbenzene		100-41-4	1000	30000	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Total Xylene		1330-20-7	260	100000	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Other VOCs	µg/kg														
Acetone		67-64-1	50	100000	**24 J**	**22 J**	**33 J**	9 UJ	**27 J**	8 UJ	**54 J**	9 UJ	**6 J**	**36 J**	**55 J**
Bromodichloromethane		75-27-4	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Bromoform		75-25-2	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Bromomethane		74-83-9	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Carbon disulfide		75-15-0	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Carbon tetrachloride		56-23-5	760	1400	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Chlorobenzene		108-90-7	1100	100000	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Chloroethane		75-00-3	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Chloroform		67-66-3	370	10000	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Chloromethane		74-87-3	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Cyclohexane		110-82-7	NE	NE	8 UJ	9 UJ	8 UJ	9 UJ	7 UJ	8 UJ	9 UJ	9 U	8 UJ	8 UJ	9 UJ
1,2-Dibromo-3-chloropropane		96-12-8	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Dibromochloromethane		124-48-1	NE	NE	8 UJ	9 UJ	8 UJ	9 UJ	7 UJ	8 UJ	9 UJ	9 U	8 UJ	8 UJ	9 UJ
1,2-Dibromoethane (EDB)		106-93-4	NE	NE	8 UJ	9 UJ	8 UJ	9 UJ	7 UJ	8 UJ	9 UJ	9 U	8 UJ	8 UJ	9 UJ
1,2-Dichlorobenzene		95-50-1	1100	100000	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
1,3-Dichlorobenzene		541-73-1	2400	17000	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 UJ	8 U	8 U	9 U
1,4-Dichlorobenzene		106-46-7	1800	9800	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Dichlorodifluoromethane (Freon 12)		75-71-8	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
1,1-Dichloroethane		75-34-3	270	19000	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
1,2-Dichloroethane		107-06-2	20	2300	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
1,1-Dichloroethene		75-35-4	330	100000	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
cis-1,2-Dichloroethene		156-59-2	250	59000	8 U	9 U	8 U	9 U	7 U	8 U	**2 J**	**15**	**4 J**	8 U	**4 J**
trans-1,2-Dichloroethene		156-60-5	190	100000	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
1,2-Dichloropropane		78-87-5	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
cis-1,3-Dichloropropene		10061-01-5	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
trans-1,3-Dichloropropene		10061-02-6	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
2-Hexanone		591-78-6	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Isopropyl benzene		98-82-8	NE	NE	8 UJ	9 UJ	8 UJ	9 UJ	7 UJ	8 UJ	9 UJ	9 UJ	8 UJ	8 UJ	9 UJ
Methyl acetate		79-20-9	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Methyl ethyl ketone (2-Butanone)		78-93-3	120	100000	**5 J**	**5 J**	**5 J**	9 U	**4 J**	8 U	**10**	9 U	8 U	**6 J**	**9**
Methyl tert-butyl ether (MTBE)		1634-04-4	930	62000	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
4-Methyl-2-pentanone (MIBK)		108-10-1	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Methylcyclohexane		108-87-2	NE	NE	8 UJ	9 UJ	8 UJ	9 UJ	7 UJ	8 UJ	9 UJ	9 UJ	8 UJ	8 UJ	9 UJ
Methylene chloride		75-09-2	50	51000	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Styrene		100-42-5	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
1,1,2,2-Tetrachloroethane		79-34-5	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Tetrachloroethene (PCE)		127-18-4	1300	5500	**150**	**220 J**	**130**	**57**	**140**	**32 J**	**1100 J**	**1700**	**670 J**	**130**	**580 J**
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		76-13-1	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
1,2,4-Trichlorobenzene		120-82-1	NE	NE	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
1,1,1-Trichloroethane (TCA)		71-55-6	680	100000	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
1,1,2-Trichloroethane		79-00-5	NE	NE	8 UJ	9 UJ	8 UJ	9 UJ	7 UJ	8 UJ	9 UJ	9 U	8 UJ	8 UJ	9 UJ
Trichloroethene (TCE)		79-01-6	470	10000	**0.8 J**	**1 J**	**0.8 J**	9 U	7 U	8 U	**5 J**	**19**	**8**	**1 J**	**6 J**
Trichlorofluoromethane (Freon 11)		75-69-4	NE	NE	8 U	**1 J**	8 U	9 U	**2 J**	**3 J**	9 U	9 U	**3 J**	**2 J**	**1 J**
Vinyl chloride		75-01-4	20	210	8 U	9 U	8 U	9 U	7 U	8 U	9 U	9 U	8 U	8 U	9 U
Total VOCs (ND=0)		TVOC_ND0	NE	NE	**179.8**	**249**	**168.8**	**57**	**173**	**35**	**1171**	**1734**	**691**	**175**	**655**
Other															
Percent Moisture	%	MOIST	NE	NE	**10.1**	**10.3**	**10.3**	**11.6**	**9**	**10**	**11.2**	**9.8**	**9**	**10**	**13.9**

Table 1. Remaining Soil Sample Exceedances
Remedial Investigation Report
Omni New York DCA-1 Apartments
495 Howard Avenue
Brooklyn, New York

Notes:
µg/kg = micrograms per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes
VOC = Volatile Organic Compound

Total VOCs are calculated using detects only.

6 NYCRR = New York State Register and Official Compilation of Codes, Rules and Regulations of the State of New York
Comparison of detected results are performed against one or more of the following NYCRR, Chapter IV, Part 375-6 Soil Cleanup Objectives (SCO)s: Unrestricted Use, Residential, Restricted-Residential, Commercial, Industrial, Protection of Ecological Resources, or Protection of Groundwater

CAS No. = Chemical Abstracts Service Number
NE = Not Established

Bolding indicates a detected result concentration
Gray shading and bolding indicates that the detected result value exceeds the Unrestricted SCO
Yellow shading and bolding indicates that the detected result value exceeds the Restricted Residential SCO

Validation Qualifiers:
J = The result is an estimated value.
U = The result was not detected above the reporting limit .
UJ = The results was not detected at or above the reporting limit shown and the reporting limit is estimated.

Table 2. Remaining Groundwater Sample Exceedances
Groundwater Analysis Results
Omni New York DCA-1 Apartments
495 Howard Avenue
Brooklyn, New York

			Location Name	MW-1I	MW-1I	MW-1I2	MW-1D	MW-2I2	MW-2D	MW-3I2	MW-3D
			Sample Name	MW-1I	DUP-01	MW-1I2	MW-1D	MW-2I2	MW-2D	MW-3I2	MW-3D
			Sample Date	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/30/2013	7/30/2013
			Parent Sample Code		MW-1I						
Analyte	**Units**	**NYS AWQS**									
1.11 BTEX											
Benzene	ug/L	1		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Toluene	ug/L	5		**11 J**	**6 J**	**2 J**	**2 J**	**3 J**	10 UJ	10 UJ	10 UJ
Ethylbenzene	ug/L	5		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Total Xylene	ug/L	5		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
1.12 Other VOCs											
Acetone	ug/L	50*		10 UJ	10 UJ	10 UJ	**8 J**	10 UJ	10 UJ	10 UJ	10 UJ
Bromodichloromethane	ug/L	50*		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Bromoform	ug/L	50*		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Bromomethane	ug/L	5		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Carbon disulfide	ug/L	60*		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Carbon tetrachloride	ug/L	5		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Chlorobenzene	ug/L	5		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Chloroethane	ug/L	5		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Chloroform	ug/L	7		**25 J**	**13 J**	**4 J**	**11 J**	**5 J**	**1 J**	**1 J**	10 UJ
Chloromethane	ug/L	5		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Cyclohexane	ug/L	NE		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
1,2-Dibromo-3-chloropropane	ug/L	0.04		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Dibromochloromethane	ug/L	50*		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
1,2-Dibromoethane (EDB)	ug/L	0.0006		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
1,2-Dichlorobenzene	ug/L	3		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
1,3-Dichlorobenzene	ug/L	3		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
1,4-Dichlorobenzene	ug/L	3		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Dichlorodifluoromethane (Freon 12)	ug/L	5		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
1,1-Dichloroethane	ug/L	5		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
1,2-Dichloroethane	ug/L	0.6		10 UJ	10 UJ	10 UJ	**3 J**	10 UJ	10 UJ	10 UJ	10 UJ
1,1-Dichloroethene	ug/L	0.07		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
cis-1,2-Dichloroethene	ug/L	5		**1 J**	**3 J**	10 UJ	10 UJ	10 UJ	10 UJ	**3 J**	10 UJ
trans-1,2-Dichloroethene	ug/L	5		**1 J**	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
1,2-Dichloropropane	ug/L	1		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
cis-1,3-Dichloropropene	ug/L	0.4		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
trans-1,3-Dichloropropene	ug/L	0.4		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
2-Hexanone	ug/L	50*		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Isopropyl benzene	ug/L	5		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Methyl acetate	ug/L	NE		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Methyl ethyl ketone (2-Butanone)	ug/L	50*		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Methyl tert-butyl ether (MTBE)	ug/L	10*		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
4-Methyl-2-pentanone (MIBK)	ug/L	NE		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Methylcyclohexane	ug/L	NE		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Methylene chloride	ug/L	5		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Styrene	ug/L	5		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ

Table 2. Remaining Groundwater Sample Exceedances
Groundwater Analysis Results
Omni New York DCA-1 Apartments
495 Howard Avenue
Brooklyn, New York

		Location Name	MW-1I	MW-1I	MW-1I2	MW-1D	MW-2I2	MW-2D	MW-3I2	MW-3D
		Sample Name	MW-1I	DUP-01	MW-1I2	MW-1D	MW-2I2	MW-2D	MW-3I2	MW-3D
		Sample Date	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/30/2013	7/30/2013
		Parent Sample Code		MW-1I						
Analyte	**Units**	**NYS AWQS**								
1,1,2,2-Tetrachloroethane	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Tetrachloroethene (PCE)	ug/L	5	**31 J**	**61 J**	**10 J**	**4 J**	**7 J**	**4 J**	**71 J**	**9 J**
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
1,2,4-Trichlorobenzene	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
1,1,1-Trichloroethane	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
1,1,2-Trichloroethane	ug/L	1	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Trichloroethene (TCE)	ug/L	5	**2 J**	**3 J**	10 UJ	10 UJ	10 UJ	10 UJ	**3 J**	10 UJ
Trichlorofluoromethane (Freon 11)	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Vinyl chloride	ug/L	2	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Total VOCs (ND=0)	ug/L	NE	**71**	**86**	**16**	**28**	**15**	**5**	**78**	**9**
2.33 NYSDEC PAH17										
Acenaphthene	ug/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	ug/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	ug/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	ug/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	ug/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	ug/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	ug/L	NE	10 R	10 R	10 R	10 U	10 R	10 R	10 U	10 U
Benzo(a)pyrene	ug/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	ug/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	ug/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	ug/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	ug/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	ug/L	10*	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U
Phenanthrene	ug/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	ug/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2.34 NYSDEC PAH17 Other SVOCs										
Acetophenone	ug/L	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U
Atrazine	ug/L	7.5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	ug/L	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Biphenyl (1,1-Biphenyl)	ug/L	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroethoxy)methane	ug/L	5	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U
Bis(2-chloroethyl)ether	ug/L	1	10 R	10 R	10 R	10 U	10 R	10 R	10 U	10 U
Bis(chloroisopropyl)ether	ug/L	5	10 R	10 R	10 R	10 UJ	10 R	10 R	10 UJ	10 UJ
Bis(2-ethylhexyl)phthalate	ug/L	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl phenyl ether	ug/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butyl benzyl phthalate	ug/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Caprolactam	ug/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	ug/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	ug/L	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	ug/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Table 2. Remaining Groundwater Sample Exceedances
Groundwater Analysis Results
Omni New York DCA-1 Apartments
495 Howard Avenue
Brooklyn, New York

		Location Name	MW-1I	MW-1I	MW-1I2	MW-1D	MW-2I2	MW-2D	MW-3I2	MW-3D
		Sample Name	MW-1I	DUP-01	MW-1I2	MW-1D	MW-2I2	MW-2D	MW-3I2	MW-3D
		Sample Date	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/30/2013	7/30/2013
		Parent Sample Code		MW-1I						
Analyte	**Units**	**NYS AWQS**								
2-Chlorophenol	ug/L	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U
4-Chlorophenyl phenyl ether	ug/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	ug/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	ug/L	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	ug/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	ug/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	50*	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U
Di-n-butyl phthalate	ug/L	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol	ug/L	NE	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4-Dinitrophenol	ug/L	10*	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4-Dinitrotoluene	ug/L	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	ug/L	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate	ug/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	ug/L	0.04	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	ug/L	0.5	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U
Hexachlorocyclopentadiene	ug/L	5	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Hexachloroethane	ug/L	5	10 R	10 R	10 R	10 U	10 R	10 R	10 U	10 U
Isophorone	ug/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-Cresol)	ug/L	1	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U
4-Methylphenol (p-Cresol)	ug/L	1	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U
2-Nitroaniline	ug/L	5	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
3-Nitroaniline	ug/L	5	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitroaniline	ug/L	5	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Nitrobenzene	ug/L	0.4	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U
2-Nitrophenol	ug/L	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U
4-Nitrophenol	ug/L	NE	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
N-Nitrosodi-n-propylamine	ug/L	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U
N-Nitrosodiphenylamine	ug/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	ug/L	1	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Phenol	ug/L	1	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U
2,4,5-Trichlorophenol	ug/L	NE	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4,6-Trichlorophenol	ug/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total SVOCs (ND=0)	ug/L	NE	ND	ND	ND	ND	ND	ND	ND	ND
3.10 PCB Aroclors										
Aroclor 1016	ug/L	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor 1221	ug/L	NE	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Aroclor 1232	ug/L	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor 1242	ug/L	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor 1248	ug/L	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor 1254	ug/L	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor 1260	ug/L	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total PCB Aroclors (ND=0)	ug/L	NE	ND	ND	ND	ND	ND	ND	ND	ND

Table 2. Remaining Groundwater Sample Exceedances
Groundwater Analysis Results
Omni New York DCA-1 Apartments
495 Howard Avenue
Brooklyn, New York

			Location Name	MW-1I	MW-1I	MW-1I2	MW-1D	MW-2I2	MW-2D	MW-3I2	MW-3D
			Sample Name	MW-1I	DUP-01	MW-1I2	MW-1D	MW-2I2	MW-2D	MW-3I2	MW-3D
			Sample Date	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/30/2013	7/30/2013
			Parent Sample Code		MW-1I						
Analyte	Units	NYS AWQS									
4.10 Pesticides											
Aldrin	ug/L	ND		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
alpha-BHC (Hexachlorocyclohexane)	ug/L	0.01		0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
beta-BHC (beta-Hexachlorocyclohexane)	ug/L	0.04		0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (gamma-Hexachlorocyclohexane) (Lindane)	ug/L	0.05		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
delta-BHC (delta-Hexachlorocyclohexane)	ug/L	0.04		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
alpha-chlordane	ug/L	NE		0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
gamma-Chlordane	ug/L	NE		0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDT (p,p'-DDT)	ug/L	0.2		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE (p,p'-DDE)	ug/L	0.2		0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U
4,4-DDD (p,p-DDD)	ug/L	0.3		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dieldrin	ug/L	0.004		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
alpha-Endosulfan (I)	ug/L	NE		**0.047 J**	0.05 U	0.05 U	**0.049 J**	0.05 U	0.05 U	0.05 U	**0.08**
beta-Endosulfan (II)	ug/L	NE		0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan sulfate	ug/L	NE		0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U
Endrin	ug/L	0		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endrin aldehyde	ug/L	5		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endrin ketone	ug/L	5		0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U
Heptachlor	ug/L	0.04		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor epoxide	ug/L	0.03		0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
Methoxychlor	ug/L	35		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toxaphene	ug/L	0.06		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Total Pesticides (ND=0)	ug/L	NE		**0.047**	ND	ND	**0.049**	ND	ND	ND	**0.08**
5.1 Herbicides											
2,4-D (2,4-Dichlorophenoxyacetic acid)	ug/L	50		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dicamba	ug/L	0.44		0.15 U	0.15 U	0.15 U	0.15 UJ	0.15 U	0.15 U	0.15 U	0.15 U
Dinoseb	ug/L	1		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	ug/L	35		0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,5-TP (Silvex)	ug/L	0.26		0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Total Herbicides (ND=0)	ug/L	NE		ND	ND	ND	ND	ND	ND	ND	ND
6.1 Metals											
Ferrous iron (Fe2+)	ug/L	NE		100 UJ	100 UJ	100 UJ	100 UJ	100 UJ	100 UJ	100 UJ	100 UJ
6.3 Total Metals											
Aluminum	ug/L	NE		**25100 J**	**1030 J**	**434 J**	**4790 J**	**2640 J**	**78.7 J**	**3680 J**	**11600 J**
Antimony	ug/L	3		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Arsenic	ug/L	25		**6.4 J**	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
Barium	ug/L	1000		**325 J**	**88.4 J**	3.7 U	**217**	**138 J**	**101 J**	**120 J**	**323**
Beryllium	ug/L	3*		**1.3 J**	0.1 U	0.1 U	**0.2 J**	0.1 U	0.1 U	0.1 U	**0.4 J**
Cadmium	ug/L	5		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Calcium	ug/L	NE		**96800**	**107000**	**129000**	**138000**	**132000**	**137000**	**131000**	**158000**
Chromium	ug/L	50		**259 J**	**14.8 J**	**2.8 J**	**101**	**273**	**2.2 J**	**27.8**	**53.2**
Cobalt	ug/L	NE		**41 J**	**3.7 J**	**2.4 J**	**8 J**	**8 J**	**1.2 J**	**6.9 J**	**17.9 J**
Copper	ug/L	200		**153 J**	**9.2 J**	0.4 UJ	0.4 UJ	**26 J**	**5.4 J**	**14.8 J**	**38.9 J**
Iron	ug/L	300		**60100 J**	**2170 J**	**1190**	**11400**	**7390**	**1290**	**7440**	**29000**
Lead	ug/L	25		**51.5 J**	**13.3 J**	**13.6**	**25.4**	**14.9**	**10.6**	**18.8**	**31.5**

Table 2. Remaining Groundwater Sample Exceedances
Groundwater Analysis Results
Omni New York DCA-1 Apartments
495 Howard Avenue
Brooklyn, New York

		Location Name	MW-1I	MW-1I	MW-1I2	MW-1D	MW-2I2	MW-2D	MW-3I2	MW-3D
		Sample Name	MW-1I	DUP-01	MW-1I2	MW-1D	MW-2I2	MW-2D	MW-3I2	MW-3D
		Sample Date	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/30/2013	7/30/2013
		Parent Sample Code		MW-1I						
Analyte	**Units**	**NYS AWQS**								
Magnesium	ug/L	35000*	**54500**	**45200**	**50000**	**56600**	**52500**	**56500**	**61300**	**66500**
Manganese	ug/L	300	**4070 J**	**909 J**	**1060**	**1680**	**1830**	**2000**	**1110**	**4520**
Mercury	ug/L	0.7	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	ug/L	100	**274 J**	**24.3 J**	**9.8 J**	**60.5**	**175**	**3.7 J**	**58.1**	**42.6**
Potassium	ug/L	NE	**10400 J**	49 UJ	**4370 J**	**5890 J**	**5890 J**	49 UJ	**5790 J**	**7170 J**
Selenium	ug/L	10	2.3 U	**2.9 J**	2.3 U	2.3 U	**3.7 J**	2.3 U	**4.1 J**	**5.1**
Silver	ug/L	50	0.2 U	0.2 U	**0.8 J**	**0.6 J**	**0.5 J**	0.2 U	0.2 U	**0.8 J**
Sodium	ug/L	20000	**44000**	**43600**	**51900**	**48600**	**48800**	**49400**	**65700**	**74200**
Thallium	ug/L	0.5*	1.9 U	1.9 U	1.9 U	**3.2 J**	1.9 U	1.9 U	1.9 U	1.9 U
Vanadium	ug/L	NE	**71.8 J**	**2.8 J**	**1.3 J**	**14.1 J**	**6.6 J**	0.3 U	**9.5 J**	**32.5 J**
Zinc	ug/L	2000*	**157 J**	**21.3 J**	**11.3 J**	**43.3**	**27.1**	**9.6 J**	**34.6**	**68.1**
9.9 Dechlorinating Bacteria[1]										
Dehalococcoides	cells/mL	NE	ND	ND	ND	ND	ND	ND	**9.00**	ND
tceA Reductase	cells/mL	NE	ND	ND	ND	ND	ND	ND	**7.20**	ND
BAV1 Vinyl Chloride Reductase	cells/mL	NE	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride Reductase	cells/mL	NE	ND	ND	ND	ND	ND	ND	ND	ND
9.10 Other										
Ammonia	ug/L	2000	100 U	100 U	**150**	100 U	100 U	100 U	100 U	**120**
Biochemical Oxygen Demand	ug/L	NE	2000 U	2000 U	2000 U	**2000**	2000 U	2000 U	2000 U	**7000**
Chemical Oxygen Demand	ug/L	NE	10000 U	10000 U	10000 U	10000 U	10000 U	**11300**	10000 U	**10700**
Hydrogen (H_2)[1]	ug/L	NE	ND	NA	ND	ND	ND	ND	ND	ND
Methane	ug/L	NE	**7.1 J**	**4.1 J**	**3.4**	**1.4 J**	**2.4**	1 U	**1.6**	**1.7**
Nitrite as Nitrogen	ug/L	1000	100 U	100 U	100 U	**210**	100 U	100 U	100 U	100 U
Nitrate as Nitrogen	ug/L	10000	**1840 J**	**3780 J**	**5650**	**4730**	**3750**	**3650**	**5930**	**6120**
Total Nitrogen	ug/L	NE	**2180 J**	**3780 J**	**5870**	**5280**	**4180**	**4090**	**6040**	**6120**
Total Kjeldahl Nitrogen	ug/L	NE	**340**	100 U	**220**	**550**	**430**	**440**	**110**	100 U
Sulfate	ug/L	250000	**137000**	**178000**	**208000**	**217000**	**193000**	**225000**	**205000**	**186000**
Total Organic Carbon	ug/L	NE	**3200**	**2600**	**2800**	**2700**	**3000**	**3000**	**3200**	**3900**

Table 2. Remaining Groundwater Sample Exceedances
Groundwater Analysis Results
Omni New York DCA-1 Apartments
495 Howard Avenue
Brooklyn, New York

		Location Name	MW-4I2	MW-4D	MW-5I2	MW-5D
		Sample Name	MW-4I2	MW-4D	MW-5I2	MW-5D
		Sample Date	7/29/2013	7/29/2013	7/30/2013	7/30/2013
		Parent Sample Code				
Analyte	**Units**	**NYS AWQS**				
1.11 BTEX						
Benzene	ug/L	1	10 UJ	10 UJ	10 UJ	10 UJ
Toluene	ug/L	5	**2 J**	**1 J**	10 UJ	10 UJ
Ethylbenzene	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ
Total Xylene	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ
1.12 Other VOCs						
Acetone	ug/L	50*	10 UJ	10 UJ	10 UJ	10 UJ
Bromodichloromethane	ug/L	50*	10 UJ	10 UJ	10 UJ	10 UJ
Bromoform	ug/L	50*	10 UJ	10 UJ	10 UJ	10 UJ
Bromomethane	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ
Carbon disulfide	ug/L	60*	10 UJ	10 UJ	10 UJ	10 UJ
Carbon tetrachloride	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ
Chlorobenzene	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ
Chloroethane	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ
Chloroform	ug/L	7	**1 J**	**7 J**	10 UJ	10 UJ
Chloromethane	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ
Cyclohexane	ug/L	NE	10 UJ	10 UJ	10 UJ	10 UJ
1,2-Dibromo-3-chloropropane	ug/L	0.04	10 UJ	10 UJ	10 UJ	10 UJ
Dibromochloromethane	ug/L	50*	10 UJ	10 UJ	10 UJ	10 UJ
1,2-Dibromoethane (EDB)	ug/L	0.0006	10 UJ	10 UJ	10 UJ	10 UJ
1,2-Dichlorobenzene	ug/L	3	10 UJ	10 UJ	10 UJ	10 UJ
1,3-Dichlorobenzene	ug/L	3	10 UJ	10 UJ	10 UJ	10 UJ
1,4-Dichlorobenzene	ug/L	3	10 UJ	10 UJ	10 UJ	10 UJ
Dichlorodifluoromethane (Freon 12)	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ
1,1-Dichloroethane	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ
1,2-Dichloroethane	ug/L	0.6	10 UJ	10 UJ	10 UJ	10 UJ
1,1-Dichloroethene	ug/L	0.07	10 UJ	10 UJ	10 UJ	10 UJ
cis-1,2-Dichloroethene	ug/L	5	**1 J**	10 UJ	10 UJ	10 UJ
trans-1,2-Dichloroethene	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ
1,2-Dichloropropane	ug/L	1	10 UJ	10 UJ	10 UJ	10 UJ
cis-1,3-Dichloropropene	ug/L	0.4	10 UJ	10 UJ	10 UJ	10 UJ
trans-1,3-Dichloropropene	ug/L	0.4	10 UJ	10 UJ	10 UJ	10 UJ
2-Hexanone	ug/L	50*	10 UJ	10 UJ	10 UJ	10 UJ
Isopropyl benzene	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ
Methyl acetate	ug/L	NE	10 UJ	10 UJ	10 UJ	10 UJ
Methyl ethyl ketone (2-Butanone)	ug/L	50*	10 UJ	10 UJ	10 UJ	10 UJ
Methyl tert-butyl ether (MTBE)	ug/L	10*	10 UJ	10 UJ	10 UJ	10 UJ
4-Methyl-2-pentanone (MIBK)	ug/L	NE	10 UJ	10 UJ	10 UJ	10 UJ
Methylcyclohexane	ug/L	NE	10 UJ	10 UJ	10 UJ	10 UJ
Methylene chloride	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ
Styrene	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ

Table 2. Remaining Groundwater Sample Exceedances
Groundwater Analysis Results
Omni New York DCA-1 Apartments
495 Howard Avenue
Brooklyn, New York

		Location Name	MW-4I2	MW-4D	MW-5I2	MW-5D
		Sample Name	MW-4I2	MW-4D	MW-5I2	MW-5D
		Sample Date	7/29/2013	7/29/2013	7/30/2013	7/30/2013
		Parent Sample Code				
Analyte	**Units**	**NYS AWQS**				
1,1,2,2-Tetrachloroethane	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ
Tetrachloroethene (PCE)	ug/L	5	**31 J**	**2 J**	**31 J**	**5 J**
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ
1,2,4-Trichlorobenzene	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ
1,1,1-Trichloroethane	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ
1,1,2-Trichloroethane	ug/L	1	10 UJ	10 UJ	10 UJ	10 UJ
Trichloroethene (TCE)	ug/L	5	**2 J**	10 UJ	**2 J**	10 UJ
Trichlorofluoromethane (Freon 11)	ug/L	5	10 UJ	10 UJ	10 UJ	10 UJ
Vinyl chloride	ug/L	2	10 UJ	10 UJ	10 UJ	10 UJ
Total VOCs (ND=0)	ug/L	NE	**37**	**10**	**33**	**5**
2.33 NYSDEC PAH17						
Acenaphthene	ug/L	20*	10 U	10 U	10 U	10 U
Acenaphthylene	ug/L	NE	10 U	10 U	10 U	10 U
Anthracene	ug/L	50*	10 U	10 U	10 U	10 U
Benzo(a)anthracene	ug/L	0.002*	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	ug/L	0.002*	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	ug/L	0.002*	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	ug/L	NE	10 U	10 R	10 U	10 U
Benzo(a)pyrene	ug/L	ND	10 U	10 U	10 U	10 U
Chrysene	ug/L	0.002*	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	NE	10 U	10 U	10 U	10 U
Fluoranthene	ug/L	50*	10 U	10 U	10 U	10 U
Fluorene	ug/L	50*	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	ug/L	0.002*	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	NE	10 U	10 U	10 U	10 U
Naphthalene	ug/L	10*	10 U	10 UJ	10 U	10 U
Phenanthrene	ug/L	50*	10 U	10 U	10 U	10 U
Pyrene	ug/L	50*	10 U	10 U	10 U	10 U
2.34 NYSDEC PAH17 Other SVOCs						
Acetophenone	ug/L	NE	10 U	10 UJ	10 U	10 U
Atrazine	ug/L	7.5	10 U	10 U	10 U	10 U
Benzaldehyde	ug/L	NE	10 UJ	10 UJ	10 UJ	10 UJ
Biphenyl (1,1-Biphenyl)	ug/L	5	10 U	10 U	10 U	10 U
Bis(2-chloroethoxy)methane	ug/L	5	10 U	10 UJ	10 U	10 U
Bis(2-chloroethyl)ether	ug/L	1	10 U	10 R	10 U	10 U
Bis(chloroisopropyl)ether	ug/L	5	10 UJ	10 R	10 UJ	10 UJ
Bis(2-ethylhexyl)phthalate	ug/L	5	10 U	10 U	10 U	10 U
4-Bromophenyl phenyl ether	ug/L	NE	10 U	10 U	10 U	10 U
Butyl benzyl phthalate	ug/L	50*	10 U	10 U	10 U	10 U
Caprolactam	ug/L	NE	10 U	10 U	10 U	10 U
Carbazole	ug/L	NE	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	NE	10 U	10 U	10 U	10 U
4-Chloroaniline	ug/L	5	10 U	10 U	10 U	10 U
2-Chloronaphthalene	ug/L	10*	10 U	10 U	10 U	10 U

Table 2. Remaining Groundwater Sample Exceedances
Groundwater Analysis Results
Omni New York DCA-1 Apartments
495 Howard Avenue
Brooklyn, New York

		Location Name	MW-4I2	MW-4D	MW-5I2	MW-5D
		Sample Name	MW-4I2	MW-4D	MW-5I2	MW-5D
		Sample Date	7/29/2013	7/29/2013	7/30/2013	7/30/2013
		Parent Sample Code				
Analyte	**Units**	**NYS AWQS**				
2-Chlorophenol	ug/L	NE	10 U	10 UJ	10 U	10 U
4-Chlorophenyl phenyl ether	ug/L	NE	10 U	10 U	10 U	10 U
Dibenzofuran	ug/L	NE	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	ug/L	5	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	5	10 U	10 U	10 U	10 U
Diethyl phthalate	ug/L	50*	10 U	10 U	10 U	10 U
Dimethyl phthalate	ug/L	50*	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	50*	10 U	10 UJ	10 U	10 U
Di-n-butyl phthalate	ug/L	50	10 U	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol	ug/L	NE	25 U	25 U	25 U	25 U
2,4-Dinitrophenol	ug/L	10*	25 U	25 U	25 U	25 U
2,4-Dinitrotoluene	ug/L	5	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	ug/L	5	10 U	10 U	10 U	10 U
Di-n-octyl phthalate	ug/L	50*	10 U	10 U	10 U	10 U
Hexachlorobenzene	ug/L	0.04	10 U	10 U	10 U	10 U
Hexachlorobutadiene	ug/L	0.5	10 U	10 UJ	10 U	10 U
Hexachlorocyclopentadiene	ug/L	5	10 U	10 U	10 U	10 U
Hexachloroethane	ug/L	5	10 U	10 R	10 U	10 U
Isophorone	ug/L	50*	10 U	10 U	10 U	10 U
2-Methylphenol (o-Cresol)	ug/L	1	10 U	10 UJ	10 U	10 U
4-Methylphenol (p-Cresol)	ug/L	1	10 U	10 UJ	10 U	10 U
2-Nitroaniline	ug/L	5	25 U	25 U	25 U	25 U
3-Nitroaniline	ug/L	5	25 U	25 U	25 U	25 U
4-Nitroaniline	ug/L	5	25 U	25 U	25 U	25 U
Nitrobenzene	ug/L	0.4	10 U	10 UJ	10 U	10 U
2-Nitrophenol	ug/L	NE	10 U	10 UJ	10 U	10 U
4-Nitrophenol	ug/L	NE	25 U	25 U	25 U	25 U
N-Nitrosodi-n-propylamine	ug/L	NE	10 U	10 UJ	10 U	10 U
N-Nitrosodiphenylamine	ug/L	50*	10 U	10 U	10 U	10 U
Pentachlorophenol	ug/L	1	25 U	25 U	25 U	25 U
Phenol	ug/L	1	10 U	10 UJ	10 U	10 U
2,4,5-Trichlorophenol	ug/L	NE	25 U	25 U	25 U	25 U
2,4,6-Trichlorophenol	ug/L	NE	10 U	10 U	10 U	10 U
Total SVOCs (ND=0)	ug/L	NE	ND	ND	ND	ND
3.10 PCB Aroclors						
Aroclor 1016	ug/L	NE	1 U	1 U	1 U	1 U
Aroclor 1221	ug/L	NE	2 U	2 U	2 U	2 U
Aroclor 1232	ug/L	NE	1 U	1 U	1 U	1 U
Aroclor 1242	ug/L	NE	1 U	1 U	1 U	1 U
Aroclor 1248	ug/L	NE	1 U	1 U	1 U	1 U
Aroclor 1254	ug/L	NE	1 U	1 U	1 U	1 U
Aroclor 1260	ug/L	NE	1 U	1 U	1 U	1 U
Total PCB Aroclors (ND=0)	ug/L	NE	ND	ND	ND	ND

Table 2. Remaining Groundwater Sample Exceedances
Groundwater Analysis Results
Omni New York DCA-1 Apartments
495 Howard Avenue
Brooklyn, New York

		Location Name	MW-4I2	MW-4D	MW-5I2	MW-5D
		Sample Name	MW-4I2	MW-4D	MW-5I2	MW-5D
		Sample Date	7/29/2013	7/29/2013	7/30/2013	7/30/2013
		Parent Sample Code				
Analyte	**Units**	**NYS AWQS**				
4.10 Pesticides						
Aldrin	ug/L	ND	0.05 U	0.05 U	0.05 U	0.05 U
alpha-BHC (Hexachlorocyclohexane)	ug/L	0.01	0.05 U	0.05 U	0.05 U	0.05 U
beta-BHC (beta-Hexachlorocyclohexane)	ug/L	0.04	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (gamma-Hexachlorocyclohexane) (Lindane)	ug/L	0.05	0.05 U	0.05 U	0.05 U	0.05 U
delta-BHC (delta-Hexachlorocyclohexane)	ug/L	0.04	0.05 U	0.05 U	0.05 U	0.05 U
alpha-chlordane	ug/L	NE	0.05 U	0.05 U	0.05 U	0.05 U
gamma-Chlordane	ug/L	NE	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDT (p,p'-DDT)	ug/L	0.2	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE (p,p'-DDE)	ug/L	0.2	0.1 U	0.1 U	0.1 U	0.1 U
4,4-DDD (p,p-DDD)	ug/L	0.3	0.1 U	0.1 U	0.1 U	0.1 U
Dieldrin	ug/L	0.004	0.1 U	0.1 U	0.1 U	0.1 U
alpha-Endosulfan (I)	ug/L	NE	**0.026 J**	0.05 U	0.05 U	0.05 U
beta-Endosulfan (II)	ug/L	NE	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan sulfate	ug/L	NE	0.1 U	0.1 U	0.1 U	0.1 U
Endrin	ug/L	0	0.1 U	0.1 U	0.1 U	0.1 U
Endrin aldehyde	ug/L	5	0.1 U	0.1 U	0.1 U	0.1 U
Endrin ketone	ug/L	5	0.1 U	0.1 U	0.1 U	0.1 U
Heptachlor	ug/L	0.04	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor epoxide	ug/L	0.03	0.05 U	0.05 U	0.05 U	0.05 U
Methoxychlor	ug/L	35	0.5 U	0.5 U	0.5 U	0.5 U
Toxaphene	ug/L	0.06	5 U	5 U	5 U	5 U
Total Pesticides (ND=0)	ug/L	NE	**0.026**	ND	ND	ND
5.1 Herbicides						
2,4-D (2,4-Dichlorophenoxyacetic acid)	ug/L	50	0.5 U	0.5 U	0.5 U	0.5 U
Dicamba	ug/L	0.44	0.15 U	0.15 U	0.15 U	0.15 U
Dinoseb	ug/L	1	0.2 U	0.2 U	0.2 U	0.2 U
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	ug/L	35	0.25 U	0.25 U	0.25 U	0.25 U
2,4,5-TP (Silvex)	ug/L	0.26	0.25 U	0.25 U	0.25 U	0.25 U
Total Herbicides (ND=0)	ug/L	NE	ND	ND	ND	ND
6.1 Metals						
Ferrous iron (Fe2+)	ug/L	NE	100 UJ	100 UJ	100 UJ	100 UJ
6.3 Total Metals						
Aluminum	ug/L	NE	**4600 J**	**5560 J**	**192 J**	**168 J**
Antimony	ug/L	3	1.2 U	1.2 U	1.2 U	1.2 U
Arsenic	ug/L	25	2.8 U	2.8 U	2.8 U	**2.8 J**
Barium	ug/L	1000	3.7 U	**146 J**	3.7 U	**450**
Beryllium	ug/L	3*	0.1 U	0.1 U	0.1 U	0.1 U
Cadmium	ug/L	5	0.1 U	0.1 U	0.1 U	0.1 U
Calcium	ug/L	NE	**119000**	**115000**	**103000**	**120000**
Chromium	ug/L	50	**73.3**	**32.4**	**2.8 J**	**7.7 J**
Cobalt	ug/L	NE	**8.8 J**	**6.9 J**	**1.6 J**	**2.3 J**
Copper	ug/L	200	**27.6 J**	**30.9 J**	**3.6 J**	**5.5 J**
Iron	ug/L	300	**7890**	**12600**	**379**	**411**
Lead	ug/L	25	**35.1**	**21.1**	**7.5**	**9.8**

Table 2. Remaining Groundwater Sample Exceedances
Groundwater Analysis Results
Omni New York DCA-1 Apartments
495 Howard Avenue
Brooklyn, New York

		Location Name	MW-4I2	MW-4D	MW-5I2	MW-5D
		Sample Name	MW-4I2	MW-4D	MW-5I2	MW-5D
		Sample Date	7/29/2013	7/29/2013	7/30/2013	7/30/2013
		Parent Sample Code				
Analyte	**Units**	**NYS AWQS**				
Magnesium	ug/L	35000*	**47600**	**41400**	**29500**	**41400**
Manganese	ug/L	300	**2350**	**1340**	**543**	**3620**
Mercury	ug/L	0.7	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	ug/L	100	**84.8**	**23 J**	**13.1 J**	**8.4 J**
Potassium	ug/L	NE	**5670 J**	49 UJ	49 UJ	**9290 J**
Selenium	ug/L	10	**6.6**	2.3 U	**3.9 J**	**4.3 J**
Silver	ug/L	50	**3.3 J**	**1.4 J**	0.2 U	**1 J**
Sodium	ug/L	20000	**79900**	**61600**	**53500**	**47500**
Thallium	ug/L	0.5*	1.9 U	1.9 U	1.9 U	1.9 U
Vanadium	ug/L	NE	**10.7 J**	**16.1 J**	**1 J**	0.3 U
Zinc	ug/L	2000*	**67.7**	**92.1**	**9.8 J**	**14.6 J**
9.9 Dechlorinating Bacteria[1]						
Dehalococcoides	cells/mL	NE	ND	0.2 J	ND	ND
tceA Reductase	cells/mL	NE	ND	ND	ND	ND
BAV1 Vinyl Chloride Reductase	cells/mL	NE	ND	ND	ND	ND
Vinyl Chloride Reductase	cells/mL	NE	ND	ND	ND	ND
9.10 Other						
Ammonia	ug/L	2000	100 U	100 U	100 U	100 U
Biochemical Oxygen Demand	ug/L	NE	2000 U	**2000**	2000 U	**4000**
Chemical Oxygen Demand	ug/L	NE	10000 U	**10000**	10000 U	**12000**
Hydrogen (H_2)[1]	ug/L	NE	ND	ND	ND	ND
Methane	ug/L	NE	1 U	1 U	1 U	1 U
Nitrite as Nitrogen	ug/L	1000	**350**	100 U	100 U	100 U
Nitrate as Nitrogen	ug/L	10000	**4970**	**4060**	**7290**	**6240**
Total Nitrogen	ug/L	NE	**5510**	**4440**	**7290**	**6410**
Total Kjeldahl Nitrogen	ug/L	NE	**540**	**380**	100 U	**170**
Sulfate	ug/L	250000	**164000**	**128000**	**106000**	**209000**
Total Organic Carbon	ug/L	NE	**3100**	**3100**	**2700**	**4000**

Table 2. Remaining Groundwater Sample Exceedances
Remedial Investigation Report
Omni New York DCA-1 Apartments
495 Howard Avenue
Brooklyn, New York

General Notes:

ug/L - micrograms per liter or parts per billion (ppb)

BTEX - benzene, toluene, ethylbenzene, and xylenes
VOCs - volatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
PCBs - polychlorinated biphenyls
SVOCs - semi-volatile organic compounds
Total VOCs, Total SVOCs, Total PCBs, Total Pesticides, and Total Herbicides are calculated using detects only.

NYS AWQS - New York State Ambient Water Quality Standards and Guidance Values for GA groundwater
* indicates the value is a guidance value and not a standard
[1]: Results not validated

NYSDEC- New York State Department of Environmental Conservation
CAS no. - Chemical Abstracts Service number
NE - not established
NA - not analyzed
ND - not detected

Bolding indicates a detected result concentration
Gray shading indicates that the detected result value exceeds NYS AWQS

Validation Qualifiers:

J - estimated value
R - rejected
U - indicates not detected to the reporting limit
UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

Table 3. Soil Vapor Sample Exceedances
Remedial Investigation Report
Omni New York DCA-1 Apartments
495 Howard Avenue
Brooklyn, New York

Sample Name		SV-01	SV-02	DUP-01
Sample Date		7/19/2013	7/19/2013	7/19/2013
Parent Sample Code				SV-02
Analyte	**Units**			
1.11 BTEX				
Benzene	µg/m^3	**2.49**	**1.73**	**1.92**
Toluene	µg/m^3	**6.03**	**6.55**	**6.33**
Ethylbenzene	µg/m^3	**2.52**	**1.43 J**	**1.69 J**
o-Xylene	µg/m^3	**5.21**	**2.82**	**3.34**
Total Xylene	µg/m^3	**10.9**	**5.52**	**6.65**
1.12 Other VOCs				
Acetone	µg/m^3	**299**	**83.9**	**52.3**
Bromodichloromethane	µg/m^3	3.35 U	3.35 U	3.35 U
Bromoform	µg/m^3	5.17 U	5.17 U	5.17 U
Bromomethane	µg/m^3	1.94 U	1.94 U	1.94 U
Carbon disulfide	µg/m^3	**16.1**	**40.6**	**41.9**
Carbon tetrachloride	µg/m^3	3.15 U	3.15 U	3.15 U
Chlorobenzene	µg/m^3	2.3 U	2.3 U	2.3 U
Chloroethane	µg/m^3	1.32 U	1.32 U	1.32 U
Chloroform	µg/m^3	**29.3**	**6.89**	**7.23**
Chloromethane	µg/m^3	1.03 U	1.03 U	1.03 U
Cryofluorane (Freon-114)	µg/m^3	3.5 U	3.5 U	3.5 U
Dibromochloromethane	µg/m^3	4.26 U	4.26 U	4.26 U
1,2-Dibromoethane (EDB)	µg/m^3	3.84 U	3.84 U	3.84 U
1,2-Dichlorobenzene	µg/m^3	3.01 U	3.01 U	3.01 U
1,3-Dichlorobenzene	µg/m^3	3.01 U	3.01 U	3.01 U
1,4-Dichlorobenzene	µg/m^3	3.01 U	3.01 U	3.01 U
Dichlorodifluoromethane (Freon 12)	µg/m^3	**1.43 J**	**1.63 J**	**0.99 J**
1,1-Dichloroethane	µg/m^3	2.02 U	2.02 U	2.02 U
1,2-Dichloroethane	µg/m^3	2.02 U	2.02 U	2.02 U
1,1-Dichloroethene	µg/m^3	1.98 U	1.98 U	1.98 U
cis-1,2-Dichloroethene	µg/m^3	1.98 U	1.98 U	1.98 U
trans-1,2-Dichloroethene	µg/m^3	1.98 U	1.98 U	1.98 U
1,2-Dichloropropane	µg/m^3	2.31 U	2.31 U	2.31 U
cis-1,3-Dichloropropene	µg/m^3	2.27 U	2.27 U	2.27 U
trans-1,3-Dichloropropene	µg/m^3	2.27 U	2.27 U	2.27 U
Hexachlorobutadiene	µg/m^3	5.33 U	5.33 U	5.33 U
2-Hexanone	µg/m^3	**8.52**	**5.65**	**6.8**
Methyl ethyl ketone (2-Butanone)	µg/m^3	**27**	**11.4**	**13**
Methyl tert-butyl ether (MTBE)	µg/m^3	1.8 U	1.8 U	1.8 U
4-Methyl-2-pentanone (MIBK)	µg/m^3	2.05 U	**3.65**	**4.02**
Methylene chloride	µg/m^3	**1.59 J**	**1.2 J**	**1.13 J**
Styrene	µg/m^3	2.13 U	2.13 U	2.13 U
1,1,2,2-Tetrachloroethane	µg/m^3	3.43 U	3.43 U	3.43 U
Tetrachloroethene (PCE)	µg/m^3	**30700**	**2470**	**2520**
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	µg/m^3	3.83 U	3.83 U	3.83 U
1,2,4-Trichlorobenzene	µg/m^3	3.71 UJ	3.71 UJ	3.71 UJ
1,1,1-Trichloroethane	µg/m^3	2.73 U	2.73 U	2.73 U
1,1,2-Trichloroethane	µg/m^3	2.73 U	2.73 U	2.73 U
Trichloroethene (TCE)	µg/m^3	**335**	**20.9**	**23.9**
Trichlorofluoromethane (Freon 11)	µg/m^3	**2.02 J**	**1.8 J**	**1.85 J**
1,2,4-Trimethylbenzene	µg/m^3	**23.3**	**9.78**	**11.5**
1,3,5-Trimethylbenzene	µg/m^3	2.46 U	**2.56**	**3.15**
Vinyl acetate	µg/m^3	1.76 U	1.76 U	1.76 U
Vinyl chloride	µg/m^3	1.28 U	1.28 U	1.28 U

Table 3. Soil Vapor Sample Exceedances
Remedial Investigation Report
Omni New York DCA-1 Apartments
495 Howard Avenue
Brooklyn, New York

Notes:

$\mu g/m^3$ - micrograms per cubic meter

BTEX - benzene, toluene, ethylbenzene, and xylenes
VOCs - volatile organic compounds

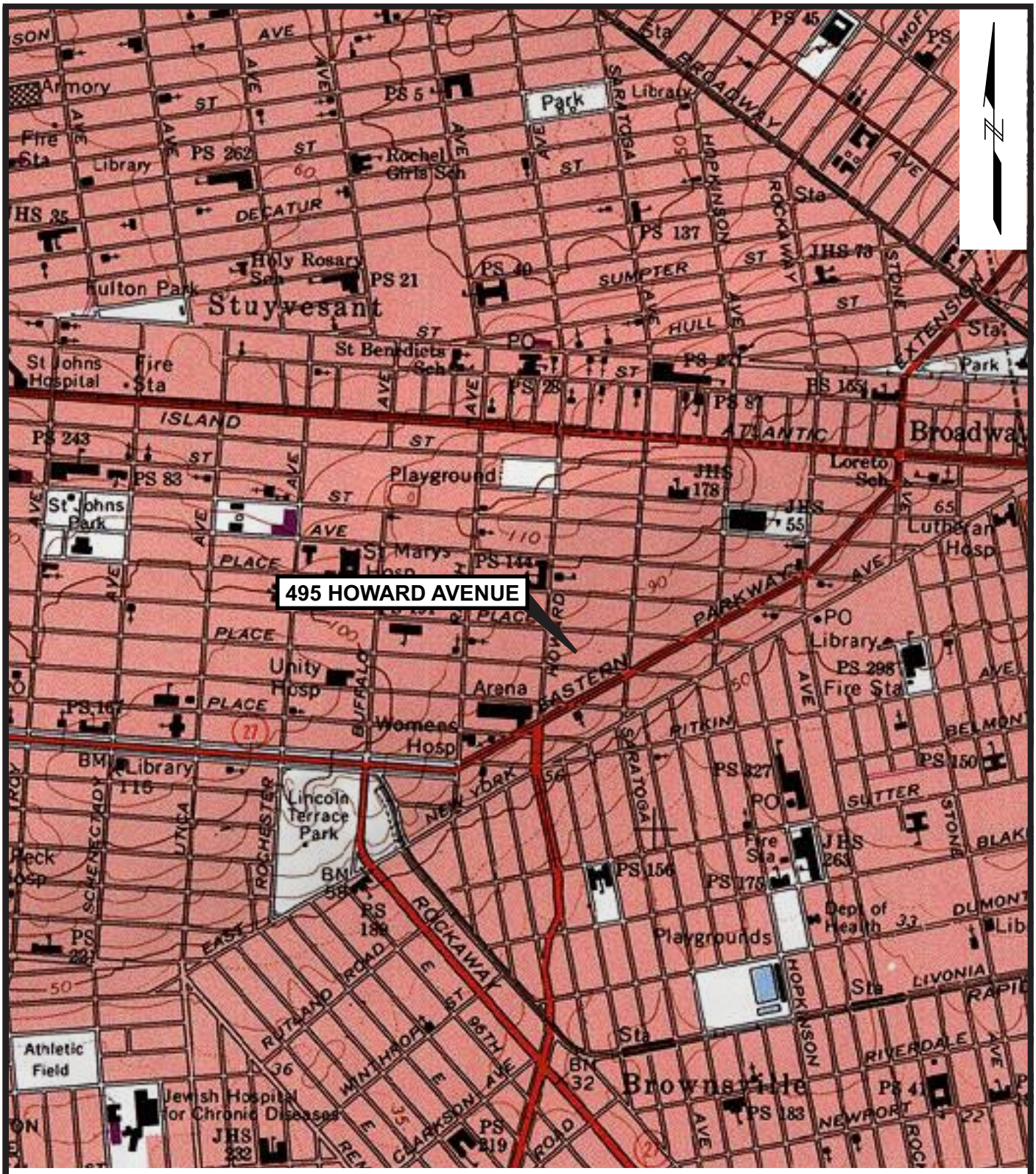
CAS no. - Chemical Abstracts Service number

Bolding indicates a detected result concentration

Validation Qualifiers:

J - estimated value
U - indicates not detected to the reporting limit
UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

Figures



SOURCE:
Map created with TOPO! ® ©2001 National Geographic
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FINAL ENGINEERING REPORT **495 HOWARD AVENUE** **BRONX, NEW YORK**	GEI Consultants	**SITE LOCATION MAP**
OMNI GROUP **NEW YORK, NEW YORK**	**Project 1325980-1000**	**May 2016** **Figure 1**

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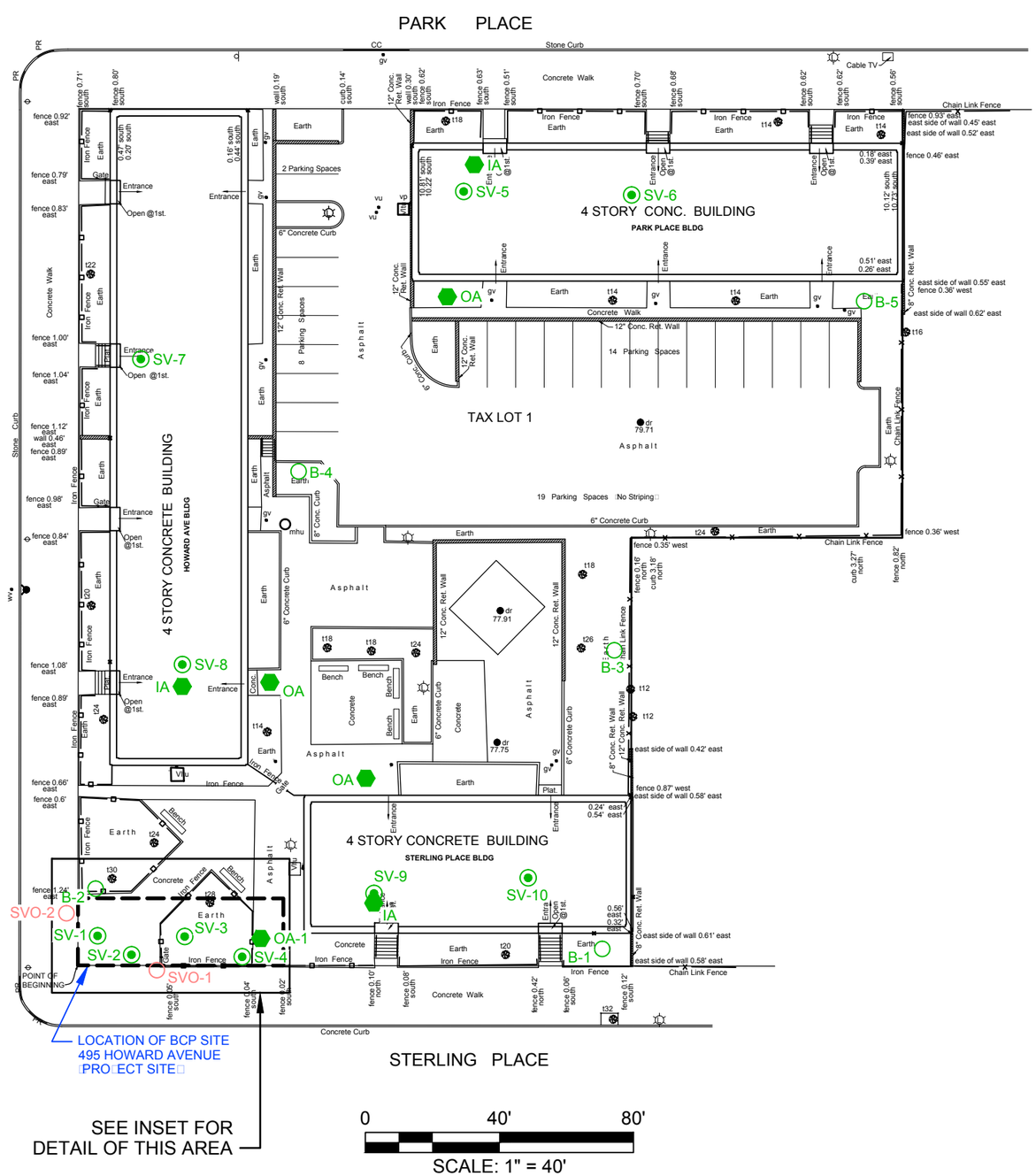

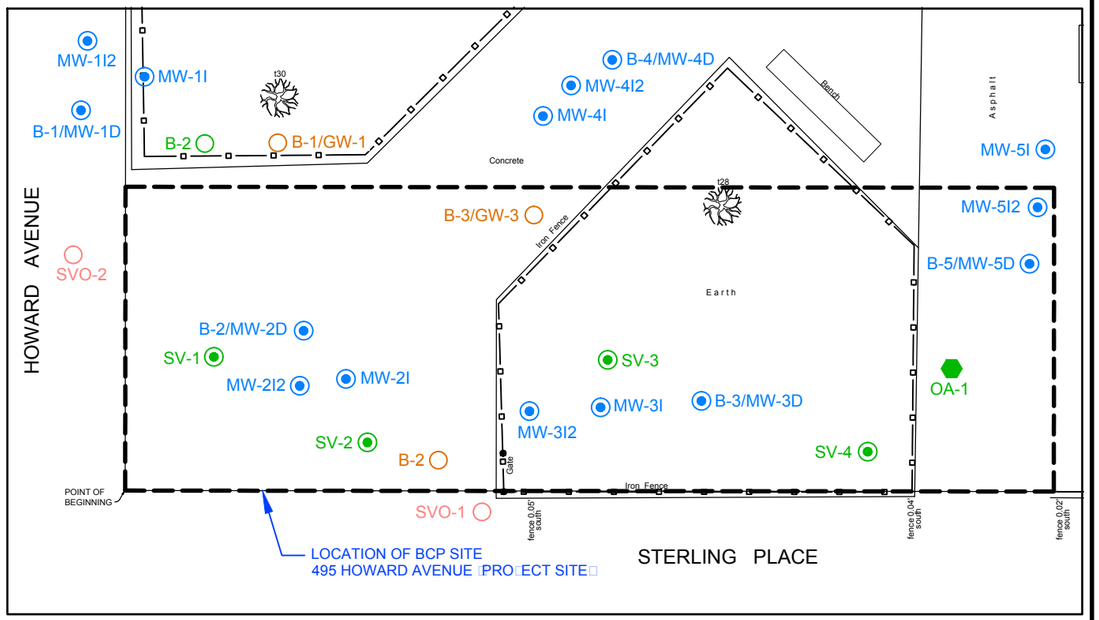

LEGEND

SV-1	HISTORICAL SOIL VAPOR
OA	HISTORICAL OUTSIDE AIR
IA	HISTORICAL INSIDE AIR
B-2	HISTORICAL SOIL BORING (NOVEMBER 2011)
B-2	HISTORICAL SOIL BORING (DECEMBER 2011)
B-1/GW-1	HISTORICAL SOIL BORING AND GROUNDWATER SAMPLE (DECEMBER 2011)
B-2/MW-2D	SOIL BORING/ MONITORING WELL
MW-2I2	MONITORING WELL
SVO-1	SOIL VAPOR
	BCP SITE BOUNDARY

SOURCE:

PLAN BASED ON MAP PREPARED BY MONTROSE SURVEYING CO., LLP, DATED 08/04/11 TITLED *ALTA-ACSM LAND TITLE SURVEY.*

FINAL ENGINEERING REPORT 495 HOWARD AVE BRONX, NEW YORK	GEI Consultants	**SITE LAYOUT MAP (SAMPLE LOCATIONS, BOUNDARIES, TAX PARCELS, ETC.)**
OMNI GROUP NEW YORK, NEW YORK	Project 1325980-1000	May 2016 Figure 2

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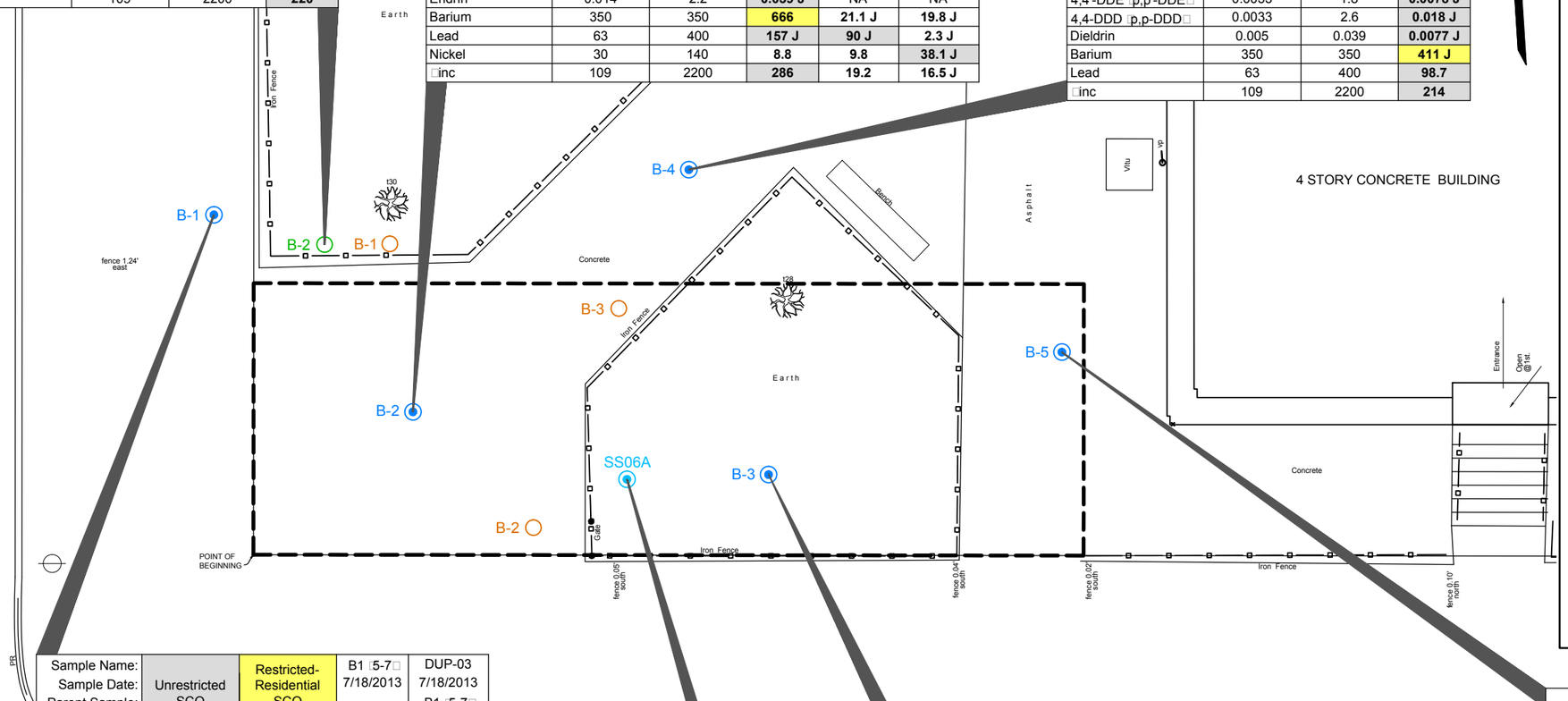
Sample Name: / Sample Date: / Analyte	Unrestricted SCO	Restricted-Residential SCO	B-2 (0-2') 11/4/2011
	mg/kg	mg/kg	mg/kg
p,p-DDE	0.0033	1.8	**0.028**
p,p-DDT	0.0033	1.7	**0.045**
Aroclor 1254	0.1	1	**0.43**
Lead as Pb	63	400	**160**
(inc	109	2200	**220**

Sample Name: / Sample Date: / Analyte	Unrestricted Use SCO	Restricted-Residential Use SCO	B2 (5-7' 7/15/2013	B2 (45-47' 7/15/2013	B2 (75-77' 7/16/2013
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
4,4'-DDT (p,p'-DDT)	0.0033	1.7	**0.32**	NA	NA
4,4'-DDE (p,p'-DDE)	0.0033	1.8	**0.067**	NA	NA
4,4-DDD (p,p-DDD)	0.0033	2.6	**0.026 J**	NA	NA
Dieldrin	0.005	0.039	**0.015**	NA	NA
Endrin	0.014	2.2	**0.039 J**	NA	NA
Barium	350	350	**666**	**21.1 J**	**19.8 J**
Lead	63	400	**157 J**	**90 J**	**2.3 J**
Nickel	30	140	**8.8**	**9.8**	**38.1 J**
(inc	109	2200	**286**	**19.2**	**16.5 J**

Sample Name: / Sample Date: / Analyte	Unrestricted SCO	Restricted-Residential SCO	B4 (5-7' 6/28/2013
	mg/kg	mg/kg	mg/kg
Ben(o)a)anthracene	1	1	**1.2**
Ben(o)b)fluoranthene	1	1	**1.3**
Chrysene	1	1	**1.3**
4,4'-DDT (p,p'-DDT)	0.0033	1.7	**0.04 J**
4,4'-DDE (p,p'-DDE)	0.0033	1.8	**0.0078 J**
4,4-DDD (p,p-DDD)	0.0033	2.6	**0.018 J**
Dieldrin	0.005	0.039	**0.0077 J**
Barium	350	350	**411 J**
Lead	63	400	**98.7**
(inc	109	2200	**214**



Sample Name: / Sample Date: / Parent Sample: / Analyte	Unrestricted SCO	Restricted-Residential SCO	B1 (5-7' 7/18/2013 --	DUP-03 7/18/2013 B1 (5-7'
	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	13	16	**5.4 J**	**20.7 J**
Barium	350	350	**71.9 J**	**160 J**
Copper	50	270	**68.7 J**	**72 J**
Lead	63	400	**76.8 J**	**225 J**
Mercury	0.18	0.81	**0.2 J**	**0.92 J**
Selenium	3.9	36	**0.93 J**	**4.4 J**
(inc	109	2200	**891**	**1050**

Sample Name: / Sample Date: / Parent Sample: / Analyte	Unrestricted Use SCO	Restricted-Residential Use SCO	SS06A (34-36' 10/2/2014 ---	SS06A (52-54' 10/2/2014 ---	DUP-2 10/2/2014 SS06A (52-54'	SS06A (58-60' 10/2/2014 ---
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acetone	0.05	100	**0.070 J**	**0.054 J**	0.009 U(	**0.055 J**
Tetrachloroethene (PCE)	1.3	5.5	**0.11**	**0.11 J**	**1.7**	**0.58 J**

Sample Name: / Sample Date: / Parent Sample: / Analyte	Unrestricted SCO	Restricted-Residential SCO	B3 (5-7' 7/8/2013 --	B3 (13-14' 7/8/2013 --	DUP-02 7/8/2013 B3 (25-27'
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acetone	0.05	100	0.007 U	**0.072**	0.005 U
4,4'-DDT (p,p'-DDT)	0.0033	1.7	**0.32**	NA	NA
4,4'-DDE (p,p'-DDE)	0.0033	1.8	**0.074**	NA	NA
4,4-DDD (p,p-DDD)	0.0033	2.6	**0.036**	NA	NA
Dieldrin	0.005	0.039	**0.017**	NA	NA
Barium	350	350	**774**	**47.8**	**40**
Lead	63	400	**86 J**	**3.6 J**	0.11 U(
Manganese	1600	2000	**236 J**	**144 J**	**2020 J**
(inc	109	2200	**524 J**	**39.5 J**	**36.9 J**

Sample Name: / Sample Date: / Analyte	Unrestricted SCO	Restricted-Residential SCO	B5 (5-7' 6/24/2013	B5 (65-67' 6/25/2013
	mg/kg	mg/kg	mg/kg	mg/kg
4,4-DDD (p,p-DDD)	0.0033	2.6	**0.01**	NA
Lead	63	400	**147**	0.11 U
Mercury	0.18	0.81	**0.26**	0.018 U
Nickel	30	140	**12.1 J**	**41.1 J**
(inc	109	2200	**169**	**31.4**

LEGEND

- B-2 — HISTORICAL SOIL BORING (NOVEMBER 2011)
- B-2 — HISTORICAL SOIL BORING (DECEMBER 2011)
- B-2 — SOIL BORING
- SS06A — SOIL VAPOR SCREENING POINT AND SOIL BORING
- BCP SITE BOUNDARY

COMPARISON OF DETECTED RESULTS ARE PERFORMED AGAINST THE FOLLOWING NYCRR, CHAPTER IV, PART 375-6 SOIL CLEANUP OBJECTIVES (SCOS): UNRESTRICTED USE AND RESTRICTED-RESIDENTIAL USE

- 6 NYCRR — NEW YORK STATE REGISTER AND OFFICIAL COMPILATION OF CODES, RULES AND REGULATIONS OF THE STATE OF NEW YORK
- mg/kg — MILLIGRAMS PER KILOGRAM OR PARTS PER MILLION (ppm)
- **12.1 J** — DETECTED RESULT CONCENTRATION
- **0.26** — EXCEEDS RESIDENTIAL SCO
- **774** — EXCEEDS RESTRICTED-RESIDENTIAL SCO
- NA — NOT ANALYZED
- (— ESTIMATED VALUE
- U — NOT DETECTED TO THE REPORTING LIMIT
- U(— NOT DETECTED ABOVE THE REPORTING LIMIT SHOWN AND THE REPORTING LIMIT IS ESTIMATED

0 10' 20'

SCALE: 1" = 10'

SOURCE:

PLAN BASED ON MAP PREPARED BY MONTROSE SURVEYING CO., LLP, DATED 08/04/11 TITLED *ALTA-ACSM LAND TITLE SURVEY.*

FINAL ENGINEERING REPORT
495 HOWARD AVE
BRONX, NEW YORK

OMNI GROUP
NEW YORK, NEW YORK

GEI Consultants

Project 1325980-1000

REMAINING SOIL SAMPLE EXCEEDANCES

May 2016 Figure 3

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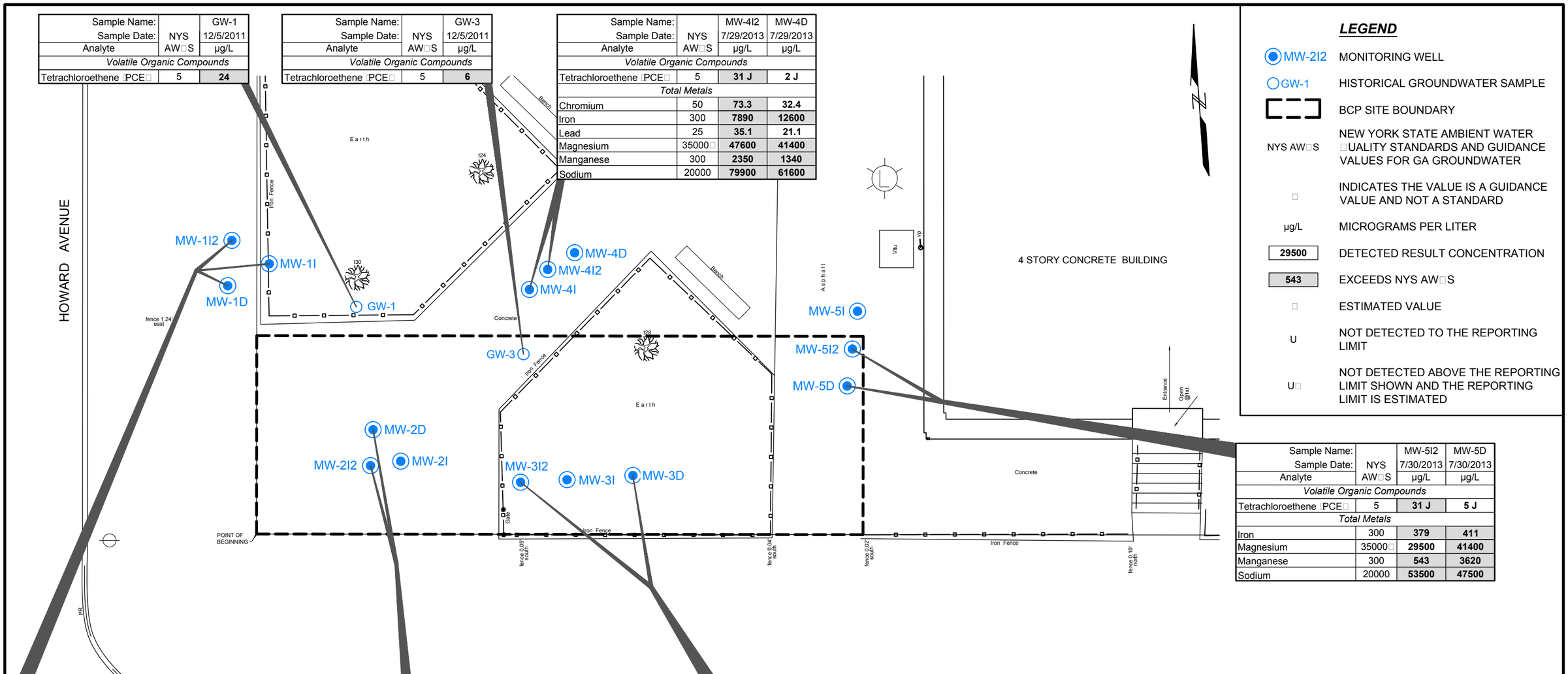

Sample Name:		GW-1
Sample Date:	NYS	12/5/2011
Analyte	AW□S	µg/L
Volatile Organic Compounds		
Tetrachloroethene (PCE□	5	**24**

Sample Name:		GW-3
Sample Date:	NYS	12/5/2011
Analyte	AW□S	µg/L
Volatile Organic Compounds		
Tetrachloroethene (PCE□	5	**6**

Sample Name:		MW-4I2	MW-4D
Sample Date:	NYS	7/29/2013	7/29/2013
Analyte	AW□S	µg/L	µg/L
Volatile Organic Compounds			
Tetrachloroethene (PCE□	5	**31 J**	**2 J**
Total Metals			
Chromium	50	**73.3**	**32.4**
Iron	300	**7890**	**12600**
Lead	25	**35.1**	**21.1**
Magnesium	35000□	**47600**	**41400**
Manganese	300	**2350**	**1340**
Sodium	20000	**79900**	**61600**

Sample Name:		MW-5I2	MW-5D
Sample Date:	NYS	7/30/2013	7/30/2013
Analyte	AW□S	µg/L	µg/L
Volatile Organic Compounds			
Tetrachloroethene (PCE□	5	**31 J**	**5 J**
Total Metals			
Iron	300	**379**	**411**
Magnesium	35000□	**29500**	**41400**
Manganese	300	**543**	**3620**
Sodium	20000	**53500**	**47500**

Sample Name:		MW-1I	MW-1I2	MW-1D
Sample Date:	NYS	7/29/2013	7/29/2013	7/29/2013
Analyte	AW□S	µg/L	µg/L	µg/L
Volatile Organic Compounds				
Toluene	5	**11 J**	**2 J**	**2 J**
Chloroform	7	**25 J**	**4 J**	**11 J**
1,2-Dichloroethane	0.6	10 U□	10 U□	**3 J**
Tetrachloroethene (PCE□	5	**31 J**	**10 J**	**4 J**
Total Metals				
Chromium	50	**259 J**	**2.8 J**	**101**
Iron	300	**60100 J**	**1190**	**11400**
Lead	25	**51.5 J**	**13.6**	**25.4**
Magnesium	35000□	**54500**	**50000**	**56600**
Manganese	300	**4070 J**	**1060**	**1680**
Nickel	100	**274 J**	**9.8 J**	**60.5**
Sodium	20000	**44000 J**	**51900**	**48600**
Thallium	0.5□	1.9 U	1.9 U	**3.2 J**

Sample Name:		MW-2I2	MW-2D
Sample Date:	NYS	7/29/2013	7/29/2013
Analyte	AW□S	µg/L	µg/L
Volatile Organic Compounds			
Tetrachloroethene (PCE□	5	**7 J**	**4 J**
Total Metals			
Chromium	50	**273**	**2.2 J**
Iron	300	**7390**	**1290**
Magnesium	35000□	**52500**	**56500**
Manganese	300	**1830**	**2000**
Nickel	100	**175**	**3.7 J**
Sodium	20000	**48800**	**49400**

Sample Name:		MW-3I2	MW-3D
Sample Date:	NYS	7/30/2013	7/30/2013
Analyte	AW□S	µg/L	µg/L
Volatile Organic Compounds			
Tetrachloroethene (PCE□	5	**71 J**	**9 J**
Total Metals			
Chromium	50	**27.8**	**53.2**
Iron	300	**7440**	**29000**
Lead	25	**18.8**	**31.5**
Magnesium	35000□	**61300**	**66500**
Manganese	300	**1110**	**4520**
Sodium	20000	**65700**	**74200**

LEGEND

MW-2I2	MONITORING WELL
GW-1	HISTORICAL GROUNDWATER SAMPLE
	BCP SITE BOUNDARY
NYS AW□S	NEW YORK STATE AMBIENT WATER □UALITY STANDARDS AND GUIDANCE VALUES FOR GA GROUNDWATER
□	INDICATES THE VALUE IS A GUIDANCE VALUE AND NOT A STANDARD
µg/L	MICROGRAMS PER LITER
29500	DETECTED RESULT CONCENTRATION
543	EXCEEDS NYS AW□S
□	ESTIMATED VALUE
U	NOT DETECTED TO THE REPORTING LIMIT
U□	NOT DETECTED ABOVE THE REPORTING LIMIT SHOWN AND THE REPORTING LIMIT IS ESTIMATED

0 10' 20'

SCALE: 1" = 10'

SOURCE:

PLAN BASED ON MAP PREPARED BY MONTROSE SURVEYING CO., LLP, DATED 08/04/11 TITLED *ALTA-ACSM LAND TITLE SURVEY.*

FINAL ENGINEERING REPORT
495 HOWARD AVE
BRONX, NEW YORK

OMNI GROUP
NEW YORK, NEW YORK

GEI Consultants

Project 1325980-1000

REMAINING GROUNDWATER SAMPLE EXCEEDANCES

May 2016 Figure 4

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Sample Name: / Sample Date:	OA 11/29/2011
Analyte	µg/m³
Tetrachloroethene	0.6785
Trichloroethene	0.21492
cis-1,2-Dichloroethene	0.3967
trans-1,2-Dichloroethene	0.3967
Vinyl chloride	0.1279

Sample Name: / Sample Date:	SV-5 11/29/2011
Analyte	µg/m³
Tetrachloroethene	1.357
Trichloroethene	1.0746
cis-1,2-Dichloroethene	0.7934
trans-1,2-Dichloroethene	0.7934
Vinyl chloride	0.5116

Sample Name: / Sample Date:	IA 11/29/2011
Analyte	µg/m³
Tetrachloroethene	0.6785
Trichloroethene	0.21492
cis-1,2-Dichloroethene	0.3967
trans-1,2-Dichloroethene	0.3967
Vinyl chloride	0.1279

Sample Name: / Sample Date:	SV-6 11/29/2011
Analyte	µg/m³
Tetrachloroethene	1.357
Trichloroethene	1.0746
cis-1,2-Dichloroethene	0.7934
trans-1,2-Dichloroethene	0.7934
Vinyl chloride	0.5116

Sample Name: / Sample Date:	SV-7 11/29/2011
Analyte	µg/m³
Tetrachloroethene	1.357
Trichloroethene	1.0746
cis-1,2-Dichloroethene	0.7934
trans-1,2-Dichloroethene	0.7934
Vinyl chloride	0.5116

Sample Name: / Sample Date:	SV-8 11/29/2011
Analyte	µg/m³
Tetrachloroethene	**1.6963**
Trichloroethene	1.0746
cis-1,2-Dichloroethene	0.7934
trans-1,2-Dichloroethene	0.7934
Vinyl chloride	0.5116

Sample Name: / Sample Date:	IA 11/29/2011
Analyte	µg/m³
Tetrachloroethene	0.6785
Trichloroethene	0.21492
cis-1,2-Dichloroethene	0.3967
trans-1,2-Dichloroethene	0.3967
Vinyl chloride	0.1279

Sample Name: / Sample Date:	OA-1 10/17/2011
Analyte	µg/m³
Tetrachloroethene	0.6785
Trichloroethene	0.21492
cis-1,2-Dichloroethene	0.3967
trans-1,2-Dichloroethene	0.3967
Vinyl chloride	0.1279

Sample Name: / Sample Date:	SV-3 10/17/2011
Analyte	µg/m³
Tetrachloroethene	**81.42**
Trichloroethene	1.0746
cis-1,2-Dichloroethene	0.7934
trans-1,2-Dichloroethene	0.7934
Vinyl chloride	0.5116

Sample Name: / Sample Date:	SV0-2 7/19/2013
Analyte	µg/m³
Tetrachloroethene	**2470**
Trichloroethene	**20.9**
cis-1,2-Dichloroethene	1.98
trans-1,2-Dichloroethene	1.98
Vinyl chloride	1.28

Sample Name: / Sample Date:	SV-1 10/17/2011
Analyte	µg/m³
Tetrachloroethene	**1221.3**
Trichloroethene	**3.8686**
cis-1,2-Dichloroethene	0.7934
trans-1,2-Dichloroethene	0.7934
Vinyl chloride	0.5116

Sample Name: / Sample Date:	SV-2 10/17/2011
Analyte	µg/m³
Tetrachloroethene	**4206.7**
Trichloroethene	**69.849**
cis-1,2-Dichloroethene	0.7934
trans-1,2-Dichloroethene	0.7934
Vinyl chloride	0.5116

Sample Name: / Sample Date:	SV0-1 7/19/2013
Analyte	µg/m³
Tetrachloroethene	**30700**
Trichloroethene	**335**
cis-1,2-Dichloroethene	1.98
trans-1,2-Dichloroethene	1.98
Vinyl chloride	1.28

Sample Name: / Sample Date:	SV-4 10/17/2011
Analyte	µg/m³
Tetrachloroethene	**278.19**
Trichloroethene	1.0746
cis-1,2-Dichloroethene	0.7934
trans-1,2-Dichloroethene	0.7934
Vinyl chloride	0.5116

Sample Name: / Sample Date:	IA 11/29/2011
Analyte	µg/m³
Tetrachloroethene	0.6785
Trichloroethene	0.21492
cis-1,2-Dichloroethene	0.3967
trans-1,2-Dichloroethene	0.3967
Vinyl chloride	0.1279

Sample Name: / Sample Date:	SV-9 11/29/2011
Analyte	µg/m³
Tetrachloroethene	**6.1744**
Trichloroethene	**3.7611**
cis-1,2-Dichloroethene	0.7934
trans-1,2-Dichloroethene	0.7934
Vinyl chloride	0.5116

Sample Name: / Sample Date:	OA 11/29/2011
Analyte	µg/m³
Tetrachloroethene	0.6785
Trichloroethene	0.21492
cis-1,2-Dichloroethene	0.3967
trans-1,2-Dichloroethene	0.3967
Vinyl chloride	0.1279

Sample Name: / Sample Date:	OA 11/29/2011
Analyte	µg/m³
Tetrachloroethene	0.6785
Trichloroethene	0.21492
cis-1,2-Dichloroethene	0.3967
trans-1,2-Dichloroethene	0.3967
Vinyl chloride	0.1279

Sample Name: / Sample Date:	SV-10 11/29/2011
Analyte	µg/m³
Tetrachloroethene	**4.8852**
Trichloroethene	**2.7402**
cis-1,2-Dichloroethene	0.7934
trans-1,2-Dichloroethene	0.7934
Vinyl chloride	0.5116

LEGEND

SV-1	HISTORICAL SOIL VAPOR
OA	HISTORICAL OUTSIDE AIR
IA	HISTORICAL INDOOR AIR
SVO-1	SOIL VAPOR
	BCP SITE BOUNDARY
µg/m³	MICROGRAMS PER CUBIC METER
4.8852	DETECTED RESULT CONCENTRATION

SOURCE:

PLAN BASED ON MAP PREPARED BY MONTROSE SURVEYING CO., LLP, DATED 08/04/11 TITLED *ALTA-ACSM LAND TITLE SURVEY.*

0 40' 80'

SCALE: 1" = 40'

FINAL ENGINEERING REPORT
495 HOWARD AVE
BRONX, NEW YORK

OMNI GROUP
NEW YORK, NEW YORK

GEI Consultants

Project 1325980-1000

REMAINING SOIL VAPOR SAMPLE EXCEEDANCES

May 2016 Figure 5

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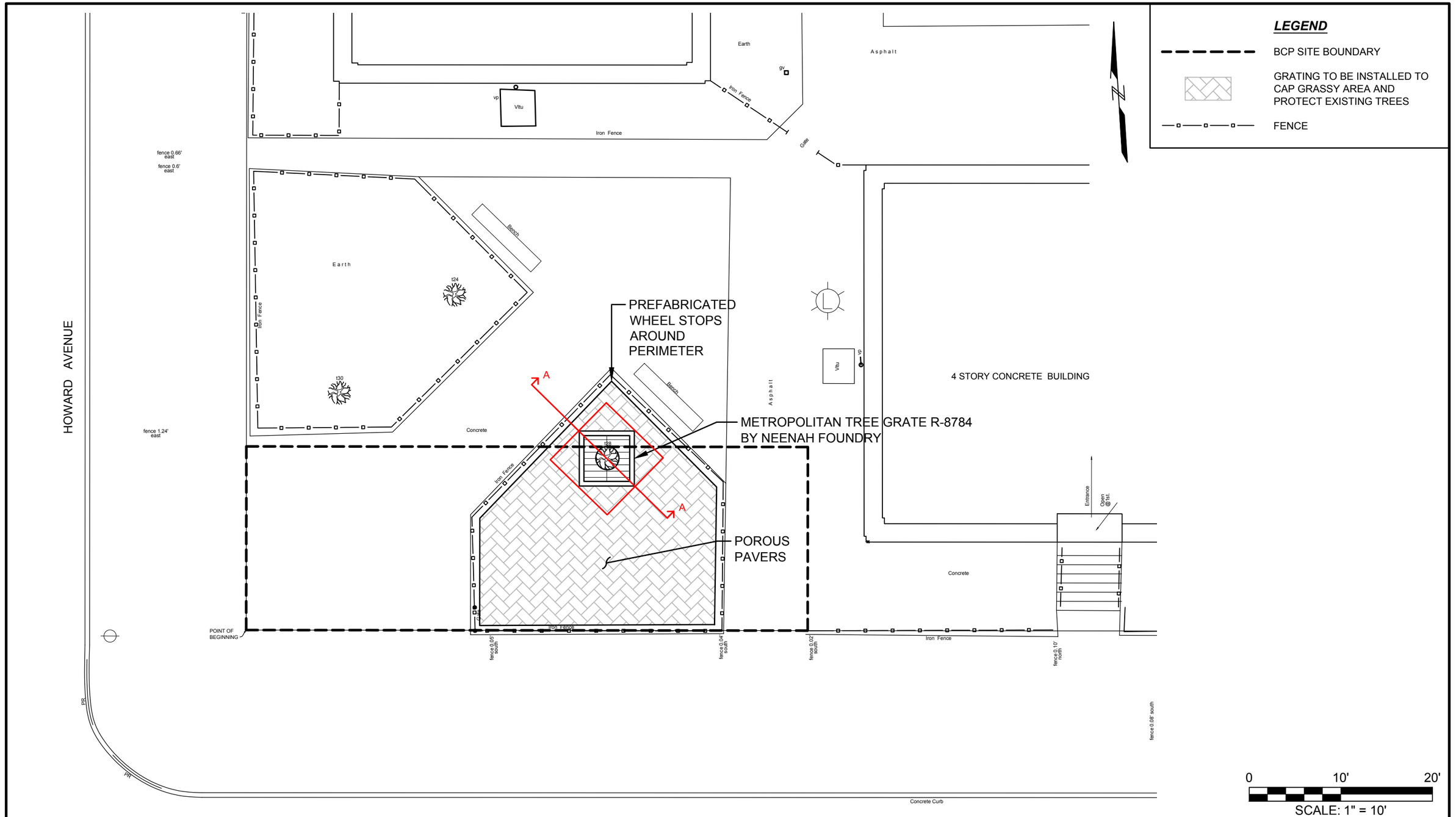

SOURCE:

PLAN BASED ON MAP PREPARED BY MONTROSE SURVEYING CO., LLP, DATED 08/04/11 TITLED *ALTA-ACSM LAND TITLE SURVEY.*

FINAL ENGINEERING REPORT 495 HOWARD AVE BRONX, NEW YORK	GEI Consultants	**COVER SYSTEM LOCATION**
OMNI GROUP NEW YORK, NEW YORK	Project 1325980	May 2016 Figure 6

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Appendix A

TITLE NO. 11–CK–43713

SURVEY NO. 64047–2

64047–2.DWG
64047001.CRD

ALTA/ACSM LAND TITLE SURVEY

Metes and Bounds Description
Former Dry Cleaning Business located on the ground floor at the corner of Howard Avenue and Sterling Place

ALL that certain plot or piece or parcel of land, situate lying and being in the Borough of Brooklyn, County of Kings, City and State of New York, bounded and described as follows:

BEGINNING at the corner formed by the intersection of the northerly side of Sterling Place with the easterly side of Howard Avenue;

RUNNING THENCE easterly along the northerly side of Sterling Place, 50.20 feet more or less to the easterly wall of the former dry cleaning business;

RUNNING THENCE northerly, along the easterly wall of the former dry cleaning business and parallel with the easterly side of Howard Avenue, 16.30 feet more or less to the northerly wall of the former dry cleaning business;

RUNNING THENCE westerly along the northerly wall of the former dry cleaning business and parallel with the northerly side of Sterling Place, 50.20 feet more or less to the easterly side of Howard Avenue;

RUNNING THENCE southerly, along the easterly side of Howard Avenue, 16.30 feet more or less to the corner the point or place of BEGINNING.

Above described parcel contains an area of 818 square feet or 0.01878 acre.

SCHEDULE "B" ITEMS

9. Gas Easement recorded in Reel 548 Page 750

10. Telephone Easement recorded in Reel 640 Page 1351

SURVEYOR'S CERTIFICATE

To: The People of the State of New York, acting through its Commissioner of the Department of Environmental Conservation, New York City Housing Development Corporation, its successors and/or assigns as their interests may appear, New York City Residential Mortgage Insurance Corporation, its successors and/or assigns as their interests may appear, The City of New York, acting by and through its Department of Housing Preservation and Development, its successors and/or assigns, as their interests may appear, Stewart Title Insurance Company, Advantage Title Agency, Inc., DCA 1 Apartments, Inc., DCA 1, L.P., ... LLC, MD Plaza ... LLC and ... Plaza Development LLC.

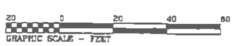
This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2011 Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes items 2, 3, 4, 6(a), 8, 9, 10(a), 11(a), 13, 14, 16, 17, 20(a) and 21 of Table A thereof. The field work was completed on [illegible].

Date: ________

[illegible] L.S., C.E.

License No. [illegible]

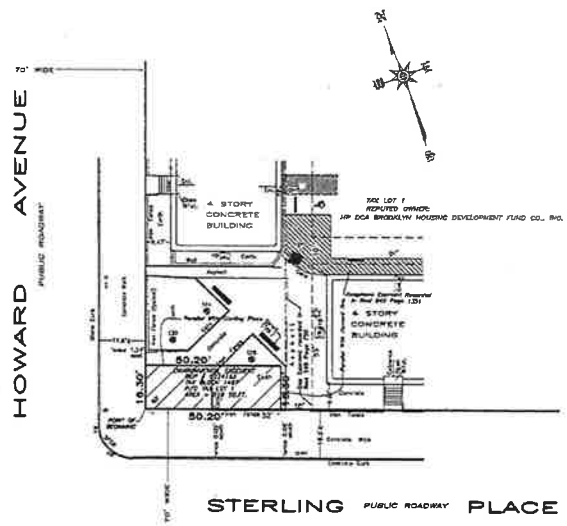
NOTES:
1. BELOW GRADE ENCROACHMENTS AND VAULTS IF ANY NOT LOCATED.
2. THERE ARE NO PARKING SPACES ON THE PREMISES.
3. THE PREMISES IS SERVED BY GAS, WATER, ELECTRICITY, TELEPHONE AND SANITARY SEWER LINES INSTALLED IN STREET.
4. PROFESSIONAL LIABILITY INSURANCE POLICY OBTAINED BY THE SURVEYOR IN THE MINIMUM AMOUNT OF $ 2,000,000.00 TO BE IN EFFECT THROUGHOUT THE CONTRACT TERM. CERTIFICATE OF INSURANCE TO BE FURNISHED UPON REQUEST.
5. THE PREMISES HAS ACCESS TO STERLING PLACE & HOWARD AVENUE.
6. THERE IS NO EVIDENCE OF CONSTRUCTION OR EARTH MOVING.
7. THERE IS NO EVIDENCE OF USE OF PREMISES AS SOLID WASTE DUMP.
8. NO EVIDENCE OF WETLANDS OBSERVED.
9. THE PROPERTY DESCRIBED HEREIN IS PART OF THE SAME PROPERTY DESCRIBED IN ADVANTAGE TITLE AGENCY, INC. COMMITMENT NO. 11–CK–43713 WITH AN EFFECTIVE DATE OF 12–29–2011.
10. THE STREET ADDRESS OF THE SUBJECT PROPERTY IS 473 HOWARD AVENUE, BROOKLYN, NY.



LEGEND

FLOOD HAZARD NOTE
THE PARCEL SURVEYED IS COMPRISED OF AREAS DESIGNATED AS ZONE X (LESS THAN 0.2% CHANCE OF FLOODING)
FEDERAL EMERGENCY MANAGEMENT AGENCY
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
COMMUNITY PANEL NUMBER 360497 0216 F
EFFECTIVE DATE SEPTEMBER 5, 2007

TOTAL PARCEL AREA = 818 SQ.FT. OR 0.01878 ACRE



This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the New York Environmental Conservation Law.

THE PROPERTY IS COVERED BY NYSDEC BCP SITE # C224162

THE ENGINEERING AND INSTITUTIONAL CONTROLS for the Easement are set forth in more detail in the Site Management Plan ("SMP"). A copy of the SMP must be obtained by any party with an interest in the property. The SMP may be obtained from the New York State Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, NY 12233 or at derweb@gw.dec.state.ny.us.

ENVIRONMENTAL EASEMENT BOUNDARY

ENVIRONMENTAL EASEMENT AREA ACCESS

THE DEC OR THEIR AGENT MAY ACCESS THE ENVIRONMENTAL EASEMENT AREA AS SHOWN HEREON THROUGH ANY EXISTING STREET ACCESS OR BUILDING INGRESS/EGRESS ACCESS POINT.

REV	DATE	DESCRIPTION
1	10-08-12	ALTA-ACSM LAND TITLE SURVEY

ESTABLISHED 1878 * SUCCESSOR TO:

MONTROSE
SURVEYING CO., LLP.
CITY & LAND SURVEYORS

CITY OF NEW YORK
COUNTY KINGS
TAX BLOCK 1467
P/O TAX LOT 1

SCALE: 1" = 20'

MONTROSE
SURVEYING CO., LLP.

CITY & LAND SURVEYORS

116-20 METROPOLITAN AVE • RICHMOND HILL, NY 11418-1090
PHONE (718) 849-0600 • FAX (718) 849-0401 • EMAIL INFO @MONTROSESURVEYING.COM

Metes and Bounds Description
Former Dry Cleaning business located on the ground floor at the corner of Howard Avenue and Sterling Place

ALL that certain plot or piece or parcel of land, situate lying and being in the Borough of Brooklyn, County of Kings, City and State of New York bounded and described as follows:

BEGINNING at the corner formed by the intersection of the northerly side of Sterling Place with the easterly side of Howard Avenue;

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RUNNING THENCE northerly, along the easterly wall of the former dry cleaning business and parallel with the easterly side of Howard Avenue, 16.30 feet more or less to the northerly wall of the former dry cleaning business;

RUNNING THENCE westerly along the northerly wall of the former dry cleaning business and parallel with the northerly side of Sterling Place, 50.20 feet more or less to the easterly side of Howard Avenue;

RUNNING THENCE southerly, along the easterly side of Howard Avenue, 16.30 feet more or less to the corner, the point or place of BEGINNING.

Appendix B

Appendix C

DECISION DOCUMENT

DCA 1 Apartments
Brownfield Cleanup Program
Brooklyn, Kings County
Site No. C224162
October 2015

Prepared by
Division of Environmental Remediation
New York State Department of Environmental Conservation

DECLARATION STATEMENT - DECISION DOCUMENT

DCA 1 Apartments
Brownfield Cleanup Program
Brooklyn, Kings County
Site No. C224162
October 2015

Statement of Purpose and Basis

This document presents the remedy for the DCA 1 Apartments site, a brownfield cleanup site. The remedial program was chosen in accordance with the New York State Environmental Conservation Law and Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR) Part 375.

This decision is based on the Administrative Record of the New York State Department of Environmental Conservation (the Department) for the DCA 1 Apartments site and the public's input to the proposed remedy presented by the Department.

Description of Selected Remedy

The elements of the selected remedy are as follows:

1. Remedial Design

A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows;

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- Maximizing habitat value and creating habitat when possible;
- Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals; and
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development.

2. Cover System

A site cover will be required to allow for restricted residential use of the site. The cover will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of two feet of soil, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for restricted residential use. The soil cover will be placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. As an approved alternative, exposed soils exceeding the restricted residential use SCOs may be covered with a porous paving system and tree grates to prevent direct contact with soil and to protect and maintain mature trees. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6 NYCRR Part 375-6.7(d).

3. Institutional Control

Imposition of an institutional control in the form of an environmental easement for the controlled property that:

- requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allows the use and development of the controlled property for restricted residential, commercial and industrial uses as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH; and
- requires compliance with the Department approved Site Management Plan.

4. Site Management Plan

A Site Management Plan is required, which includes the following:

a. an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:
   - Institutional Controls: The Environmental Easement discussed in Paragraph #3 above.
   - Engineering Controls: The soil cover discussed in Paragraph # 2 above.

   This plan includes, but may not be limited to:
   - an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
   - descriptions of the provisions of the environmental easement including any land use, and/or groundwater use restrictions;
   - a provision for evaluation of the potential for soil vapor intrusion for any buildings developed on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
   - provisions for the management and inspection of the identified engineering controls;

- maintaining site access controls and Department notification; and
- the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

b. a Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:
   - a schedule of monitoring and frequency of submittals to the Department;
   - monitoring for vapor intrusion for any buildings developed on the site, as may be required by the Institutional and Engineering Control Plan discussed above.

Declaration

The remedy conforms with promulgated standards and criteria that are directly applicable, or that are relevant and appropriate and takes into consideration Department guidance, as appropriate. The remedy is protective of public health and the environment.

October 23, 2015

Date

Robert Cozzy, Director
Remedial Bureau B

DECISION DOCUMENT

DCA 1 Apartments
Brooklyn, Kings County
Site No. C224162
October 2015

SECTION 1: SUMMARY AND PURPOSE

The New York State Department of Environmental Conservation (the Department), in consultation with the New York State Department of Health (NYSDOH), has selected a remedy for the above referenced site. The disposal of contaminants at the site has resulted in threats to public health and the environment that would be addressed by the remedy. The disposal or release of contaminants at this site, as more fully described in this document, has contaminated various environmental media. Contaminants include hazardous waste and/or petroleum.

The New York State Brownfield Cleanup Program (BCP) is a voluntary program. The goal of the BCP is to enhance private-sector cleanups of brownfields and to reduce development pressure on "greenfields." A brownfield site is real property, the redevelopment or reuse of which may be complicated by the presence or potential presence of a contaminant.

The Department has issued this document in accordance with the requirements of New York State Environmental Conservation Law and 6 NYCRR Part 375. This document is a summary of the information that can be found in the site-related reports and documents.

SECTION 2: CITIZEN PARTICIPATION

The Department seeks input from the community on all remedies. A public comment period was held, during which the public was encouraged to submit comment on the proposed remedy. All comments on the remedy received during the comment period were considered by the Department in selecting a remedy for the site. Site-related reports and documents were made available for review by the public at the following document repository:

New York Public Library--Brownsville Branch
61 Glenmore Avenue
Brooklyn, NY
Phone: 718-498-9721

Receive Site Citizen Participation Information By Email

Please note that the Department's Division of Environmental Remediation (DER) is "going paperless" relative to citizen participation information. The ultimate goal is to distribute citizen participation information about contaminated sites electronically by way of county email listservs.

Information will be distributed for all sites that are being investigated and cleaned up in a particular county under the State Superfund Program, Environmental Restoration Program, Brownfield Cleanup Program, Voluntary Cleanup Program, and Resource Conservation and Recovery Act Program. We encourage the public to sign up for one or more county listservs at http://www.dec.ny.gov/chemical/61092.html

SECTION 3: SITE DESCRIPTION AND HISTORY

Location:
The site is a rectangular area of 818 square feet located in the southwest corner of Brooklyn Block 1467, Lot 1. The address is 495 Howard Avenue, aka 485 Howard Avenue, in the East New York section of Brooklyn at the intersection of Howard Avenue and Sterling Place. The site is the location of a former dry cleaning building. The site is a small portion of Block 1467, Lot 1.

Site Features:
The site is currently paved with the exception of a landscaped area that is mulched and fenced. The site is part of a larger residential development consisting of 9 buildings, an asphalt parking lot, landscaped areas and a former playground.

Current Zoning and Land Use:
The site is zoned R6 for residential use with a commercial overlay of C1-3 and is used as a walking area near the restricted residential development.

Historic Use:
A dry-cleaning operation had been identified in a formerly existing building on this site in the 1960s.

Site Geology and Hydrogeology:
The site soil consists of historic fill from grade to approximately 7 feet below ground surface (bgs), glacial till consisting of dense sand, silt, gravel, and cobbles from approximately 7 to 54 ft bgs, and medium to fine grained sand from approximately 54 to 60 ft bgs. The regional groundwater aquifer is likely within the medium to fine grained sand formation.

Perched groundwater was encountered at a depth of 13 feet several soil boring locations and soil below this depth was moist to wet, but not saturated. The regional groundwater table was encountered at a depth of 55 feet and was found in a permeable sand formation. Groundwater flow direction is to the southeast.

A site location map is attached as Figure 1.

SECTION 4: LAND USE AND PHYSICAL SETTING

The Department may consider the current, intended, and reasonably anticipated future land use of the site and its surroundings when evaluating a remedy for soil remediation. For this site, alternatives (or an alternative) that restrict(s) the use of the site to residential use (which allows for restricted-residential use, commercial use and industrial use) as described in Part 375-1.8(g)

were/was evaluated in addition to an alternative which would allow for unrestricted use of the site.

A comparison of the results of the Remedial Investigation (RI) to the appropriate standards, criteria and guidance values (SCGs) for the identified land use and the unrestricted use SCGs for the site contaminants is available in the RI Report.

SECTION 5: ENFORCEMENT STATUS

The Applicant(s) under the Brownfield Cleanup Agreement is a/are Volunteer(s). The Applicant(s) does/do not have an obligation to address off-site contamination. However, the Department has determined that this site does not pose a significant threat to public health or the environment; accordingly, no enforcement actions are necessary.

The Department, in consultation with NYSDOH, will evaluate and address potential off-site sources of contamination.

SECTION 6: SITE CONTAMINATION

6.1: Summary of the Remedial Investigation

A remedial investigation (RI) serves as the mechanism for collecting data to:

- characterize site conditions;
- determine the nature of the contamination; and
- assess risk to human health and the environment.

The RI is intended to identify the nature (or type) of contamination which may be present at a site and the extent of that contamination in the environment on the site, or leaving the site. The RI reports on data gathered to determine if the soil, groundwater, soil vapor, indoor air, surface water or sediments may have been contaminated. Monitoring wells are installed to assess groundwater and soil borings or test pits are installed to sample soil and/or waste(s) identified. If other natural resources are present, such as surface water bodies or wetlands, the water and sediment may be sampled as well. Based on the presence of contaminants in soil and groundwater, soil vapor will also be sampled for the presence of contamination. Data collected in the RI influence the development of remedial alternatives. The RI report is available for review in the site document repository and the results are summarized in section 6.3.

The analytical data collected on this site includes data for:

- groundwater
- soil
- soil vapor

6.1.1: Standards, Criteria, and Guidance (SCGs)

The remedy must conform to promulgated standards and criteria that are directly applicable or that

are relevant and appropriate. The selection of a remedy must also take into consideration guidance, as appropriate. Standards, Criteria and Guidance are hereafter called SCGs.

To determine whether the contaminants identified in various media are present at levels of concern, the data from the RI were compared to media-specific SCGs. The Department has developed SCGs for groundwater, surface water, sediments, and soil. The NYSDOH has developed SCGs for drinking water and soil vapor intrusion. For a full listing of all SCGs see: http://www.dec.ny.gov/regulations/61794.html

6.1.2: RI Results

The data have identified contaminants of concern. A "contaminant of concern" is a contaminant that is sufficiently present in frequency and concentration in the environment to require evaluation for remedial action. Not all contaminants identified on the property are contaminants of concern. The nature and extent of contamination and environmental media requiring action are summarized below. Additionally, the RI Report contains a full discussion of the data. The contaminant(s) of concern identified at this site is/are:

tetrachloroethene (PCE)	trichloroethene (TCE)
chromium	barium

The contaminant(s) of concern exceed the applicable SCGs for:

- groundwater
- soil

6.2: Interim Remedial Measures

An interim remedial measure (IRM) is conducted at a site when a source of contamination or exposure pathway can be effectively addressed before issuance of the Decision Document.

There were no IRMs performed at this site during the RI.

6.3: Summary of Environmental Assessment

This section summarizes the assessment of existing and potential future environmental impacts presented by the site. Environmental impacts may include existing and potential future exposure pathways to fish and wildlife receptors, wetlands, groundwater resources, and surface water. The RI report presents a detailed discussion of any existing and potential impacts from the site to fish and wildlife receptors.

Nature and extent of contamination:

Soil - No volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) pesticides, herbicides or polychlorinated biphenyls (PCBs) were identified in the soil samples collected during the remedial investigation exceeding restricted residential soil cleanup objectives

(RRSCOs). Metals exceeding RRSCOs were limited to the shallow samples collected within the historic fill layer. Although the initial investigation for the site was focused on tetrachloroethylene (PCE), detections of PCE were all below the unrestricted use soil cleanup objective (UUSCO) of 1.3 parts per million (ppm). No evidence of an onsite source of PCE contamination was identified during the investigation. Metals exceeding the RRSCOs were limited to barium in the shallow samples collected from borings in the historic fill layer from 5 to 7 feet bgs. The samples exceeding the RRSCO (350 ppm) were all within the same order of magnitude as at concentrations up to 774 ppm. Site related soil contamination does not appear to extend off-site.

Groundwater - There were no samples exceeding the groundwater standards for SVOCs, pesticides, PCBs or herbicides. Samples exceeding the groundwater standards for VOCs were primarily limited to PCE, which was detected in each of the monitoring wells sampled and was detected above the groundwater standards in seven of the eleven monitoring wells. Detections above the standard ranged from 7 parts per billion (ppb) to 71 ppb in onsite monitoring wells as compared to the groundwater standard of 5 ppb. Three of the seven monitoring wells with detections of PCE above the groundwater standards were identified in upgradient offsite monitoring well clusters. PCE was detected in each of the five upgradient wells sampled, with concentrations ranging up to 31 ppb. No onsite source of groundwater contamination has been identified and it appears that the VOCs found in the groundwater both on and offsite are due to an upgradient offsite source. Total metals exceeding the groundwater standards were identified in each of the monitoring wells sampled. The compounds exceeding the groundwater standards included chromium at 273 ppb. These compounds appear to be naturally occurring.

Soil vapor - Elevated concentrations of PCE were detected in soil vapor at 3 of 4 soil vapor points at concentrations ranging from 278 micrograms per cubic meter (ug/m3) to 4,207 ug/m3. Trichloroethylene (TCE) a breakdown product of PCE was also detected in soil vapor at a maximum concentration of 69.9 ug/m3. No on-site source of soil vapor was identified. Additional sampling is being conducted off-site to assess if there is a possible off-site source of soil vapor contamination.

6.4: Summary of Human Exposure Pathways

This human exposure assessment identifies ways in which people may be exposed to site-related contaminants. Chemicals can enter the body through three major pathways (breathing, touching or swallowing). This is referred to as *exposure*.

Access to the site is unrestricted. However, contact with contaminated soil or groundwater is unlikely unless people dig below the ground surface. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Because there is no on-site building, inhalation of site contaminants in indoor air due to soil vapor intrusion does not represent a concern for the site in its current condition. However, the potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site development. Additional sampling is needed to evaluate soil vapor intrusion for off-site buildings.

6.5: Summary of the Remediation Objectives

The objectives for the remedial program have been established through the remedy selection process stated in 6 NYCRR Part 375. The goal for the remedial program is to restore the site to pre-disposal conditions to the extent feasible. At a minimum, the remedy shall eliminate or mitigate all significant threats to public health and the environment presented by the contamination identified at the site through the proper application of scientific and engineering principles.

The remedial action objectives for this site are:

Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.

Soil Vapor

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

SECTION 7: ELEMENTS OF THE SELECTED REMEDY

The alternatives developed for the site and the evaluation of the remedial criteria are presented in the Alternative Analysis. The remedy is selected pursuant to the remedy selection criteria set forth in DER-10, Technical Guidance for Site Investigation and Remediation and 6 NYCRR Part 375.

The selected remedy is a Track 4: Restricted use with site-specific soil cleanup objectives remedy.

The selected remedy is referred to as the Soil Cover System remedy.

The elements of the selected remedy, as shown in Figure 2, are as follows:

1. Remedial Design

A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows;

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;

- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- Maximizing habitat value and creating habitat when possible;
- Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals; and
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development.

2. Cover System

A site cover will be required to allow for restricted residential use of the site. The cover will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of two feet of soil, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for restricted residential use. The soil cover will be placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. As an approved alternative, exposed soils exceeding the restricted residential use SCOs may be covered with a porous paving system and tree grates to prevent direct contact with soil and to protect and maintain mature trees. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6 NYCRR Part 375-6.7(d).

3. Institutional Control

Imposition of an institutional control in the form of an environmental easement for the controlled property that:

- requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allows the use and development of the controlled property for restricted residential, commercial and industrial uses as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH; and
- requires compliance with the Department approved Site Management Plan.

4. Site Management Plan

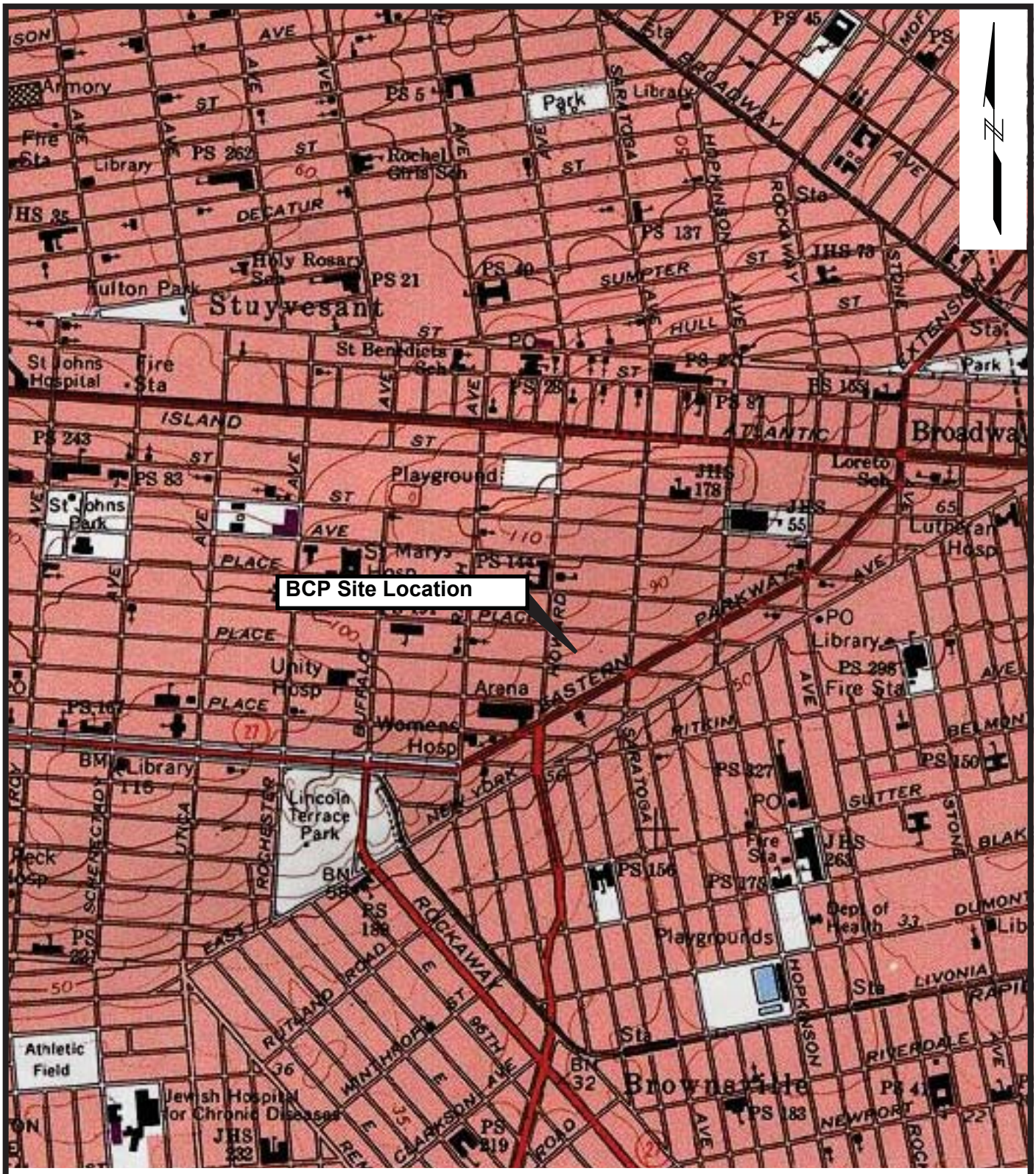
A Site Management Plan is required, which includes the following:

c. an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:
   - Institutional Controls: The Environmental Easement discussed in Paragraph #3 above.
   - Engineering Controls: The soil cover discussed in Paragraph # 2 above.

This plan includes, but may not be limited to:

- an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
- descriptions of the provisions of the environmental easement including any land use, and/or groundwater use restrictions;
- a provision for evaluation of the potential for soil vapor intrusion for any buildings developed on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
- provisions for the management and inspection of the identified engineering controls;
- maintaining site access controls and Department notification; and
- the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

d. a Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:
    - a schedule of monitoring and frequency of submittals to the Department;
    - monitoring for vapor intrusion for any buildings developed on the site, as may be required by the Institutional and Engineering Control Plan discussed above.



SOURCE:
Map created with TOPO! ® ©2001 National Geographic
(www.nationalgeographic.com/topo)

495 HOWARD AVENUE BROOKLYN, NEW YORK		**SITE LOCATION MAP**
OMNI GROUP LLC. NEW YORK, NEW YORK	Project 1325980-*-1000	Figure 1

I:\Project\Omni Group\RIR\New York-Site Loc.cdr

LEGEND

- BCP SITE BOUNDARY
- GRATING TO BE INSTALLED TO CAP GRASSY AREA AND PROTECT EXISTING TREES
- FENCE

N

HOWARD AVENUE

RAISED CURB AROUND PERIMETER

GRATING

POROUS PAVERS

Site cover area

POINT OF BEGINNING

4 STORY CONCRETE BUILDING

Earth

Asphalt

Concrete

Concrete Curb

Iron Fence

Gate

Bench

Entrance

Open @1st.

Vltu

vp

gv

t24

t30

t28

fence 0.66' east

fence 0.6' east

fence 1.24' east

fence 0.05' south

fence 0.04' south

fence 0.02' south

fence 0.10' north

fence 0.08' south

0 10' 20'

SCALE: 1" = 10'

STERLING PLACE

495 HOWARD AVE BRONX, NEW YORK		**SURFACE SOIL COVER SYSTEM**
OMNI GROUP NEW YORK, NEW YORK	Project 1325980	Figure 2

I:\Project\Omni Group\RAWP\Howard Ave - RAWP Figures.dwg

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau B
625 Broadway, 12th Floor, Albany, NY 12233-7016
P: (518) 402-9768 I F: (518) 402-9773
www.dec.ny.gov

October 23, 2015

Andrew Germansky
DCA 1, L.P.
c/o Omni New York LLC
885 Third Avenue, 31st Floor
New York, NY 10017

Re: DCA 1 Apartments
Site ID No. C224162
Brooklyn, Kings County
Remedial Investigation Report, Remedial Action Work Plan & Decision Document

Dear Mr. Germansky:

The New York State Department of Environmental Conservation (Department) and the New York State Department of Health (NYSDOH) have reviewed the Remedial Investigation Report (RIR) dated October 2015 and the Remedial Action Work Plan (RAWP) dated October 2015 for the DCA 1 Apartments site. The RIR and the RAWP were prepared by GEI Consultants, Inc., P.C. on behalf of DCA 1, L.P. The RIR and RAWP are hereby approved. Please ensure that copies of the approved documents are placed in the document repositories. The draft documents should be removed.

Attached is a copy of the Department's Decision Document for the site. The remedy is to be implemented in accordance with this Decision Document. Please ensure that a copy of the Decision Document is placed in the document repositories.

Please contact the Department's Project Manager, Nigel Crawford, at (718) 482-7778 or nigel.crawford@dec.ny.gov at your earliest convenience to discuss next steps. Please recall the Department requires seven days' notice prior to the start of field work.

Sincerely,

Robert J. Cozzy
Director
Remedial Bureau B
Division of Environmental Remediation

Enclosure

ec w/attachments:

R. Schick, M. Ryan, J. O'Connell, N. Crawford, M. Joplin – NYSDEC
K. Anders, J. Deming, A. Perretta – NYSDOH
N. Recchia – GEI Consultants
D. Fleming – Omni New York LLC

Appendix D

NYC Buildings

PW3: Cost Affidavit

Must be typewritten.

Orient and affix BIS job number label here

1 Reason For Filing *Required for **all** applications.*

Reason for filing cost affidavit:	Cost information provided must be based on:
☐ Initial Filing *2-7*	Estimated cost of construction
☐ Prior to Approval Actions *1A, 2-7*	Estimated cost of construction
☐ Post Approval Amendment (PAA) *1A, 2-7*	Estimated cost of construction
☒ To obtain Sign-off *2-3, 5, 7*	Actual construction cost of completed work

1A Indicate existing document number affected by filing:

2 Location Information *Required for **all** applications.*

House No(s) 481 Street Name HOWARD AVENUE

Borough BROOKLYN Block 01467 Lot 00001 BIN 3324684 C.B. No. 316

3 Cost Details *Required for **all** applications.*

Cost estimates shall include total value of work proposed per § 28-112.3 of the NYC Administrative Code and shall be direct work costs based upon material, equipment and labor; work shall include all construction elements including, but not limited to, construction equipment, wall and floor finishes, built-in cabinets, and kitchen appliances. Indirect costs, including but not limited to general conditions, insurance, and an allowance for profit and overhead shall be added to direct work costs and shall be reflected in the unit costs shown. If in the opinion of the Department, the valuation is underestimated on the application, the permit shall be denied, unless the applicant can show detailed estimates to meet the approval of the Department. The initial, amended and final building permit valuation shall be set by the department. ***"Yes" or "No" must be specified for each "Category of Work" listed below.***

Categories of Work *(Must match all applicable categories indicated on PW1.)*

Yes	No		Yes	No		Yes	No	
☐	☒	Boiler (BL)	☐	☒	Standpipe (SD)	☒	☐	General Construction (OT)
☐	☒	Fire Alarm (FA)	☐	☒	Sprinkler (SP)	☐		Partial Demolition
☐	☒	Fuel Burning (FB)	☐	☒	Signs (SG)	☐		Non-Structural Demolition
☐	☒	Fuel Storage (FS)	☐	☒	Other (OT)	☐		Structural Work
☐	☒	Fire Suppression (FP)	☐		Antenna (OT/ANT)	☐		Interior Renovation
☐	☒	Mechanical (MH)	☐		Fire Protection Plan (OT/FPP)	☐		Exterior Renovation
☐	☒	Plumbing (PL)	☐		Marquee (OT/MAR)	☒		(Describe) LANDSCAPE
			☐		(Describe)			

Category of Work*	Description of Work	Area/Units	Unit Cost ($)	Total Cost ($)	Work Category Total Cost ($)
LANDSCAPE	INSTALL TREE GRATE			21,950.00	21,950.00
				TOTAL JOB COST: $	21,950.00

**List ALL Categories of Work specified "Yes" above. Use more than one line for Categories of Work that involve multiple unit costs. See PW3 Form Instructions for a sample of completed Section 3 Cost Details.*

4 Design Applicant Information

Last Name SCHWANOF First Name LAURA Middle Initial A

Business Name GEI CONSULTANTS Business Phone 631-759-2969 Business Fax 631-760-9301

Business Address 110 WALT WHITMAN ROAD, SUITE 204 Mobile Phone 631-513-1604

City HUNTINGTON ST State NY Zip 11746 E-Mail lschwanof@geiconsultants.com

License Number 001479 Choose One: ☐ P.E. ☐ R.A. ☐ Sign Hanger ☒ Other (specify) Landscape Arch

5 Owner/Lease Holder Information

Last Name SCHNEUR First Name EUGENE Middle Initial

Business Name DCA1, LP Business Phone 646-374-0077 Business Fax

Business Address 885 SECOND AVENUE, 31ST FLOOR Mobile Phone 347-949-0820

City NEW YORK State NY Zip 10017 E-Mail ESCHNEUR@ONYLLC.COM

6 Design Applicant's Statements and Signatures

I hereby state the information on this form is correct and complete to the best of my knowledge. I understand falsification of any statement is a misdemeanor and punishable by a fine, imprisonment, or both. I also understand it is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as a gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by imprisonment or fine or both. I understand that if I am found after hearing to have knowingly or negligently made a false statement or to have knowingly or negligently falsified or allowed to be falsified any certificate, form, signed statement, application, report or certification of the correction of a violation required under the provisions of this code or of a rule of any agency, I may be barred from filing further applications or documents with the Department.

Name (print)

LAURA A SCHWANOF, RLA

Signature

Date 5/12/16

LAURA ANNE SCHWANOF LANDSCAPE ARCHITECT 001479 STATE OF NEW YORK

P.E. / R.A. Seal *(apply seal, then sign and date over seal)*

7 Owner's/Lease Holder's Statements and Signatures *Notary only required when submitting to obtain sign-off.*

I hereby state the information on this form is correct and complete to the best of my knowledge. I understand falsification of any statement is a misdemeanor and is punishable by a fine or imprisonment, or both. I also understand it is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as a gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by imprisonment or fine or both. I understand that if I am found after hearing to have knowingly or negligently made a false statement or to have knowingly or negligently falsified or allowed to be falsified any certificate, form, signed statement, application, report or certification of the correction of a violation required under the provisions of this code or of a rule of any agency, I may be barred from filing further applications or documents with the Department.

Name (print)	Notarization	Notary Seal
EUGENE SCHNEUR	State of New York, County of:	
Signature	Sworn to or affirmed under penalty of perjury	
	day of 20	
Date	Notary Public Signature	

Internal Use Only

Work Area	PW3 Cost Details Validation	Comments (May include cost guidance.)	Initials
Plan Examination:	☐ Accept Original ☐ Revised Cost Needed		
C of O:	☐ Accept Original ☐ Revised Cost Needed		
Plan Examination/C of O:	☐ Accept Revised Submission (Resolved)		

NYC Buildings

TR1: Technical Report
Statement of Responsibility

This form must be typewritten

Orient and affix BIS job number label here

1 Location Information *Required for all applications.*

House No(s) 481 Street Name HOWARD AVENUE

Work on Floor(s) OSP

2 Applicant Information *Required for all applications.*

Choose all that apply: ☒ Design Applicant *3A, 4A, 5* ☐ Special Inspections Applicant *3B-D, 6-9* ☐ Progress Inspections Applicant *4B-D, 6-9*

Last Name SCHWANOF First Name LAURA Middle Initial A.

Business Name GEI CONSULTANTS Business Telephone 631-759-2969

Business Address 110 WALT WHITMAN ROAD, SUITE 204 Business Fax 631-760-9301

City HUNTINGTON ST State NY Zip 11746 Mobile Telephone 631-513-1604

License Type *choose one:* ☐ P.E. ☐ R.A. ☒ Other: Landscape Architect License Number 001479

Special Inspection Agency Number

3 Special Inspection Categories *Required for all applications, continued on page 2;* ■ *indicates report required.*

3A ← Identification of Requirement				3B Identification of Responsibilities	3C Certificate of Complete Inspections / Tests	3D Withdraw Responsibilities
Y	N	Special Inspections	Code/Section	Initial & Date	Initial & Date	Initial & Date
☐	☒	Structural Steel – Welding	BC 1704.3.1			
☐	☒	Structural Steel – Details	BC 1704.3.2			
☐	☒	Structural Steel – High Strength Bolting	BC 1704.3.3			
☐	☒	Structural Cold-Formed Steel	BC 1704.3.4			
☐	☒	Concrete – Cast-In-Place	BC 1704.4			
☐	☒	Concrete – Precast	BC 1704.4			
☐	☒	Concrete – Prestressed	BC 1704.4			
☐	☒	Masonry	BC 1704.5			
☐	☒	Wood – Installation of High-Load Diaphragms	BC 1704.6.1			
☐	☒	Wood – Installation of Metal-Plate-Connected Trusses	BC 1704.6.2			
☐	☒	Wood – Installation of Prefabricated I-Joists	BC 1704.6.3			
☐	☒	Subgrade Inspection	BC 1704.7.1			
☐	☒	Subsurface Conditions – Fill Placement & In-Place Density	BC 1704.7.2 BC 1704.7.3			
☐	☒	Subsurface Investigations (Borings/Test Pits) ■ TR4	BC 1704.7.4			
☐	☒	Deep Foundation Elements ■ TR5	BC 1704.8			
☐	☒	Helical Piles (BB # 2014-020) ■ TR5H	BC 1704.8.5			
☐	☒	Vertical Masonry Foundation Elements	BC 1704.9			
☐	☒	Wall Panels, Curtain Walls, and Veneers ■	BC 1704.10			
☐	☒	Sprayed fire-resistant materials	BC 1704.11			
☐	☒	Mastic and Intumescent Fire-resistant Coatings	BC 1704.12			
☐	☒	Exterior Insulation and Finish Systems (EIFS)	BC 1704.13			
☐	☒	Alternative Materials - OTCR Buildings Bulletin # _____	BC 1704.14			
☐	☒	Smoke Control Systems	BC 1704.15			
☐	☒	Mechanical Systems	BC 1704.16			
☐	☒	Fuel-Oil Storage and Fuel-Oil Piping Systems	BC 1704.17			
☐	☒	High-Pressure Steam Piping (Welding)	BC 1704.18			
☐	☒	High Temperature Hot Water Piping (Welding)	BC 1704.18			
☐	☒	High-Pressure Fuel-Gas Piping (Welding)	BC 1704.19			
☐	☒	Structural Stability – Existing Buildings	BC 1704.20.1			
☐	☒	Excavations—Sheeting, Shoring, and Bracing	BC 1704.20.2			
☐	☒	Underpinning	BC 1704.20.3 BC 1814			
☐	☒	Mechanical Demolition	BC 1704.20.4			

NYC Buildings

TR1: Technical Report
Statement of Responsibility

This form must be typewritten

3 Special Inspection Categories (continued) *Required for all applications, continued on page 2;* ■ *indicates report required.*

3A ← Identification of Requirement				3B Identification of Responsibilities	3C Certificate of Complete Inspections / Tests	3D Withdraw Responsibilities
Y	N	Special Inspections	Code/Section	Initial & Date	Initial & Date	Initial & Date
☐	☒	Raising and Moving of a Building	BC 1704.20.5			
☐	☒	Soil Percolation Test - Private On-Site Storm Water Drainage Disposal Systems, and Detention Facilities ■	BC 1704.21.1.2			
☐	☒	Private On-Site Storm Water Drainage Disposal Systems, and Detention Facilities Installation	BC 1704.21.2			
☐	☒	Individual On-Site Private Sewage Disposal Systems Installation	BC 1704.22			
☐	☒	Soil Percolation Test - Individual On-Site Private Sewage Disposal Systems ■	BC 1704.22			
☐	☒	Sprinkler Systems	BC 1704.23			
☐	☒	Standpipe Systems	BC 1704.24			
☐	☒	Heating Systems	BC 1704.25			
☐	☒	Chimneys	BC 1704.26			
☐	☒	Fire-resistant Penetrations and Joints	BC 1704.27			
☐	☒	Aluminum Welding	BC 1704.28			
☐	☒	Flood Zone Compliance (attach FEMA elevation/dry floodproofing certificate where applicable)	BC 1704.29 BC G105			
☐	☒	Luminous Egress Path Markings ■ TR7	BC 1704.30 BC 1024.8			
☐	☒	Emergency and Standby Power Systems (Generators)	BC 1704.31			
☐	☒	Post-installed Anchors (BB# 2014-018, 2014-019)	BC 1704.32			
☐	☒	Seismic Isolation Systems	BC 1707.8			
☐	☒	Concrete Design Mix ■ TR3	BC 1905.3 BC 1913.5	Submit TR3 to complete this item		
☐	☒	Concrete Sampling and Testing ■ TR2	BC 1905.6 BC 1913.10	Submit TR2 to complete this item		

4 Progress Inspection Categories *Required for all applications.* ■ *indicates report required.*

4A ← Identification of Requirement				4B Identification of Responsibilities	4C Certificate of Complete Inspections / Tests	4D Withdraw Responsibilities
Y	N	Progress Inspections	Code/Section	Initial & Date	Initial & Date	Initial & Date
☐	☒	Preliminary	28-116.2.1, BC 110.2			
☐	☒	Footing and Foundation	BC 110.3.1			
☐	☒	Lowest Floor Elevation	BC 110.3.2			
☐	☒	Structural Wood Frame	BC 110.3.3			
☐	☒	Energy Code Compliance Inspections ■ TR8	BC 110.3.5	Submit TR8 to complete this item		
☐	☒	Fire-Resistance Rated Construction	BC 110.3.4			
☐	☒	Public Assembly Emergency Lighting	28-116.2.2			
☒	☐	Final*	28-116.2.4.2, BC 110.5, Directive 14 of 1975, and 1 RCNY §101-10		X	

** For column 4C, indicate date when the actual final inspection was performed*

5 Design Applicant's Statements and Signatures *P.E./R.A. responsible for plans, choose both below and sign/seal.*

☐ I have identified all of the special inspections, progress inspections and tests required for compliance.

☐ I certify that the Special Inspection and Approved Agencies engaged by the owner to supervise the work specified above are acceptable. (BC 1704.1)

Name (please print)

Signature Date

P.E. / R.A. Seal *(apply seal, then sign and date over seal)*

6 Owner's Statement and Signature for Progress/Special Inspector *Required when inspection applicant identifies responsibilities.*

I have reviewed the information provided herein and, to the best of my knowledge and belief, attest to its accuracy. I approve the identification of the responsible inspector. Falsification of any statement is a misdemeanor and is punishable by a fine or imprisonment, or both. It is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as a gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by a fine or imprisonment, or both. I understand that if I am found after hearing to have knowingly or negligently made a false statement or to have knowingly or negligently falsified or allowed to be falsified any certificate, form, signed statement, application, report or certification of the correction of a violation required under the provisions of this code or of a rule of any agency, I may be barred from filing further applications or documents with the Department.

Name (print) EUGENE SCHNEUR Title MANAGING DIRECTOR

Signature Date

7 Inspection Applicant's Identification of Responsibilities

Check all that apply below:

☐ For the **special inspections** indicated above in section 3, I certify that I am the principal/director of the special inspection agency accepting responsibility for conducting the inspections. I further certify that I have read the applicable sections of the New York City Construction Codes in connection with special inspections as well as 1 RCNY 101-06 Rule, which specifies the qualifications required for each inspection and that this agency meets those qualifications for each and every special inspection for which I/we take responsibility. I agree that both I and the agency will comply with all provisions of the New York City Construction Codes and the Rule. I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.

☐ For the **progress inspections** indicated above in section 4, except energy code inspections on the TR1EN form, and/or **concrete test items** indicated in section 3, I assume the responsibility and I personally, or where permitted by the New York City Construction Codes, qualified personnel under my direct supervision, will perform the required inspections and tests on such forms and in such matter as the Department requires or requests. I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.

Final Inspection:

☐ I will make final inspection of the construction work, including those inspections during its progress necessary to my certification upon final inspection that all work substantially conforms to approved construction documents and applicable laws and rules. I will confirm that the performance of progress inspections and other inspections has been documented before I report the work complete. As prescribed by 1 RCNY 101-10, I will perform the final inspection within 1 year from the expiration of the last valid permit of the work.

Upon completion of the work and within 30 days of my final inspection, I will file a certification attesting to the fact that all work was performed and completed in accordance with the approved construction documents, laws and rules, except as reported otherwise.

☐ **I understand that my failure to file a certification of completion or to notify the Department of my withdrawal of responsibilities within one year from expiration of the last valid permit may result in the loss of my privileges to file under Directives 2 and 14 of 1975 or issuance of a violation, or both. I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.**

☐ **Change of Applicant:** I am a newly designated individual responsible for the items specified herein and I hereby state that:

- ☐ None of the inspections/tests indicated herein have been performed to date by the previously designated individual.
- ☐ Some of the inspections/tests indicated herein have been performed by the previously designated individual, as indicated in the attached report.

I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.

Name (please print)

Signature Date

P.E. / R.A. Seal *(apply seal, then sign and date over seal)*

8 Inspection Applicant's Certification of Partial Completion

☐ I have completed the items specified herein and certify that the all work performed substantially conforms to approved construction documents and has been performed in accordance with applicable provisions of the New York City Construction Codes and other designated rules and regulations, except as indicated in the attached report.

☐ **Withdrawal of Applicant:** I am withdrawing responsibility for the items of special/progress inspections and/or tests indicated herein and herewith submit the results or status of the work performed to date.

I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.

Name (please print)

Signature Date

P.E. / R.A. Seal *(apply seal, then sign and date over seal)*

9 Inspection Applicant's Certification of Full Completion

All work performed substantially conforms to approved construction documents and has been performed in accordance with applicable provisions of the New York City Construction Codes and other designated rules and regulations.

I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.

Name (please print) LAURA A. SCHNEUR

Signature 5/12/16 Date

P.E. / R.A. Seal *(apply seal, then sign and date over seal)*

Appendix E

FIELD REPORT

Site:	**DCA-1 Apartments**	**Date:**	**05/02/16**
Location:	**495 Howard Avenue**	**Report #:**	**1**
	Brooklyn, New York	**Job #:**	**1325980****1000**
	NYSDEC BCP No. C224162		

Tasks: Remedial Remedy Surface Soil Cover System Installation

Consisting of installation of a tree grating system and porous pavers over the grassy area of the site

Weather Conditions:

50-55°F Overcast Skies, Chance of Rain

Field Staff:

Nick Recchia

Erik Curran

Work Crew:

Royal Star Associates & Landscaping

Equipment:

Minirae Photoionization Detector (2)

Dust Trek Dust Monitors (2)

Bobcat and various landscaping support equipment

Visitors/Other Personnel:

Greg Mojica -Omni represented

Summary of Activities:

GEI arrived on site at 0800, calibrated the CAMP equipment. Royal Star Landscaping arrived on site at 0800 and set up for the daily activities. GEI conducted a daily health and safety tailgate meeting prior to field activities. Royal Star began placing 2 3/8" concrete pavers, 3/4" gravel (no. 8 aggregate), porous pavers, geotextile fabric silk fence and a Neenah tree grate in the area around the existing tree.

No CAMP exceedances were reported due to the disturbance of the soil. Royal Star Completed work at approximately 6:00pm.

CAMP equipment was shut down and Royal Star and GEI demobilized offsite at approximately 6:30pm.

GEI reminded the work crew that no soil disturbance will take place during this project.

CAMP: No exceedances for the daily activities were noted.

Work Schedule:

The tree grating, subbase materials, porous pavers, prefabricated concrete perimeter curbing have been installed.

Remaining items include the No. 8 aggregate gravel to be installed between the pavers. This will be completed when the rain and weather clears.

Scheduled for thurs 5/5 pending no rain and the installed pavers surface clears.

Important Issues/Resolutions:

Tree grate was modified to fit the root system so the grate positioning was turned 30 degrees from the plan drawings.

None noted of significance that could not be resolved.

Attachments:

Photos

PHOTO 1: View of the beginning of the paving project

PHOTO 2: View of the surface being prepared.

PHOTO 3: View of the CAMP station.

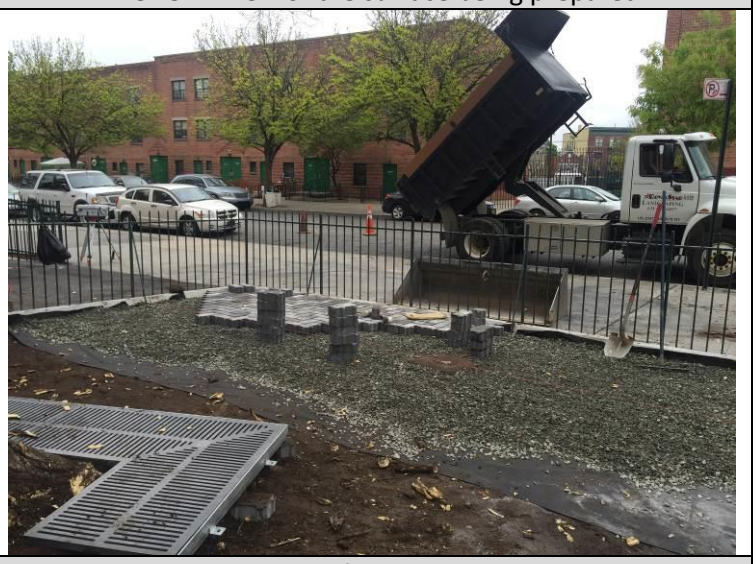


PHOTO 4: View of the subject property.

PHOTO 5: View of the ¾” stone and pavers.

PHOTO 6: View of the porous pavers and tree grate.

PHOTO 7: Another view of the porous pavers and tree grate.

PHOTO 8: View of the final work completed.

PHOTO 9: Details of the porous pavers and final work.

PHOTO 10: Details of the porous pavers and final work.

FIELD REPORT

Site:	**DCA-1 Apartments**	**Date:**	**05/03/16**
Location:	**495 Howard Avenue**	**Report #:**	**1**
	Brooklyn, New York	**Job #:**	**1325980****1000**
	NYSDEC BCP No. C224162		

Tasks: Remedial Remedy Surface Soil Cover System Installation

Consisting of installation of a tree grating system and porous pavers over the grassy area of the site

Weather Conditions:

55-60°F Overcast Skies, Chance of Rain

Field Staff:

Nick Recchia

Work Crew:

Royal Star Associates & Landscaping

Equipment:

Minirae Photoionization Detector (2)

Dust Trek Dust Monitors (2)

Bobcat and various landscaping support equipment

Visitors/Other Personnel:

Summary of Activities:

GEI arrived on site at 0800, calibrated the CAMP equipment. Royal Star Landscaping arrived on site at 0800 and set up for the daily activities. GEI conducted a daily health and safety tailgate meeting prior to field activities. Royal Star began placing fine # 8 aggregate gravel betwe

No CAMP exceedances were reported due to the disturbance of the soil. Royal Star Completed work at approximately 6:00pm. CAMP equipment was shut down and Royal Star and GEI demobilized offsite at approximately 11 am.

CAMP: No exceedances for the daily activities were noted.

Work Schedule:

Work is complete. Final Inspection to be completed by Laura Schwanof RLA.

Important Issues/Resolutions:

None noted of significance that could not be resolved.

Attachments:

Photos

Appendix F

PHOTO 1: Site work area

PHOTO 2: Site Preparation

PHOTO 3: Upwind CAMP station

PHOTO 4: Downwind CAMP station

PHOTO 5: Perimeter curbing wheel stop installation

PHOTO 6: Tree Grate

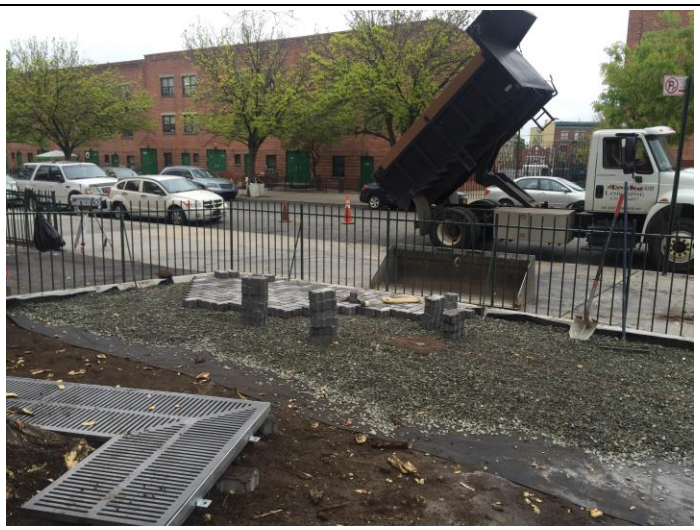


PHOTO 7: Subgrade geotextile fabric and gravel install

PHOTO 8: View of site activities

PHOTO 9: Tree Grate install detail

PHOTO 10 Site fence, perimeter curbing final installation

PHOTO 11: View of finished cover system pavers

PHOTO 12: View of tree grate and paver cover system

Appendix G

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

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

2016082301005001001EBA3E

RECORDING AND ENDORSEMENT COVER PAGE **PAGE 1 OF 12**

Document ID: 2016082301005001 Document Date: 07-25-2016 Preparation Date: 08-23-2016
Document Type: EASEMENT
Document Page Count: 10

PRESENTER:
ADVANTAGE TITLE AGENCY (13CK46892)
201 OLD COUNTRY ROAD, SUITE 200
MELVILLE, NY 11747
631-424-6100
MSANDILLO@ADVANTAGETITLE.COM

RETURN TO:
ADVANTAGE TITLE AGENCY (13CK46892)
201 OLD COUNTRY ROAD, SUITE 200
MELVILLE, NY 11747
631-424-6100
MSANDILLO@ADVANTAGETITLE.COM

PROPERTY DATA

Borough	Block	Lot	Unit	Address
BROOKLYN	1467	1	Entire Lot	495 HOWARD AVENUE

Property Type: APARTMENT BUILDING

CROSS REFERENCE DATA

CRFN_____ *or* DocumentID_____ *or* _____ Year____ Reel____ Page_____ *or* File Number_____

PARTIES

GRANTOR/SELLER:
HP DCA BROOKLYN HOUSING DEVELOPMENT FUND CO., INC.
C/O HOUSING PARTNERSHIP DEVELOPMENT CORPORATION, 242 WEST 36TH STREET, 3RD FLOOR

☒ Additional Parties Listed on Continuation Page

GRANTEE/BUYER:
PEOPLE OF THE STATE OF NEW YORK
625 BROADWAY
ALBANY, NY 12233-1500

FEES AND TAXES

Mortgage :

Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	87.00
Affidavit Fee:	$	0.00

Filing Fee: $ 250.00
NYC Real Property Transfer Tax: $ 0.00
NYS Real Estate Transfer Tax: $ 0.00

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK
Recorded/Filed 08-26-2016 14:59
City Register File No.(CRFN): **2016000296357**

City Register Official Signature

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

2016082301005001001CB8BE

RECORDING AND ENDORSEMENT COVER PAGE (CONTINUATION) **PAGE 2 OF 12**

Document ID: 2016082301005001 Document Date: 07-25-2016 Preparation Date: 08-23-2016
Document Type: EASEMENT

PARTIES

GRANTEE/BUYER:
COMMISSIONER OF DEPT OF ENVIRONMENTAL
CONSERVATION
625 BROADWAY
ALBANY, NY 12233-1500

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 25th day of July, 2016 between Owner(s) HP DCA Brooklyn Housing Development Fund Company, Inc., having an office at c/o Housing Partnership Development Corporation, Inc., 242 West 36th Street, 3rd Floor, New York, New York 10018, County of New York, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the addresses of 473-495 Howard Avenue, 1756-1764 Park Place, and 1785-1791 Sterling Place in the City of New York, County of Kings and State of New York, which combined and contiguous addresses are known and designated on the tax map of the New York City Department of Finance as tax map parcel number: Block 1467 Lot 1 ("Lot 1"), being a portion of the property conveyed to Grantor by deed dated August 15, 2013 and recorded in the City Register of the City of New York as CFRN # 2013000402311. A portion of Lot 1 is the property subject to this Environmental Easement (the "Controlled Property"), which portion of Lot 1 comprises approximately 0.019 +/- acres, and is hereinafter more fully described in the Land Title Survey dated October 8, 2013 and last revised April 12, 2016 prepared by Saeid Jaliluand, L.L.S. of Montrose Surveying Co., LLP, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: C224162-09-12, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement")

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the New York City Department of Health and Mental Hygiene to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved b the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee

interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: C224162
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

HP DCA Brooklyn Housing Development Fund Company, Inc.:

By: _____

Print Name: Daniel M. Cohen

Title: Vice President Date: 7/15/2016

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF New York)

On the 15 day of July, in the year 2016, before me, the undersigned, personally appeared Daniel M. Cohen, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of ~~which~~ the individual(s) acted, executed the instrument.

_____
Notary Public - State of New York

HIRSCH L. NEUSTEIN
Notary Public - State of New York
No. 02NE6319827
County of New York
Commission Expires 2/23/19

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Robert W. Schick, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 25 day of July, in the year 2016, before me, the undersigned, personally appeared Robert W. Schick, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s), whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5082146
Qualified in Schenectady County
Commission Expires August 22, 2018

SCHEDULE "A" PROPERTY DESCRIPTION

ALL that certain plot or piece or parcel of land, situate lying and being in the Borough of Brooklyn, County of Kings, City and State of New York bounded and described as follows:

BEGINNING at the corner formed by the intersection of the northerly side of Sterling Place with the easterly side of Howard Avenue;

RUNNING THENCE easterly along the northerly side of Howard Place, 50.20 feet more or less to the easterly wall of the former dry cleaning business;

RUNNING THENCE northerly, along the easterly wall of the former dry cleaning business and parallel with the easterly side of Howard Avenue, 16.30 feet more or less to the northerly wall of the former dry cleaning business;

RUNNING THENCE westerly along the northerly wall of the former dry cleaning business and parallel with the northerly side of Sterling Place, 50.20 feet more or less to the easterly side of Howard Avenue;

RUNNING THENCE southerly, along the easterly side of Howard Avenue, 16.30 feet more or less to the corner, the point or place of BEGINNING.

Above described parcel contains an area of 818 square feet or 0.01878 acre.

ENVIRONMENTAL EASEMENT

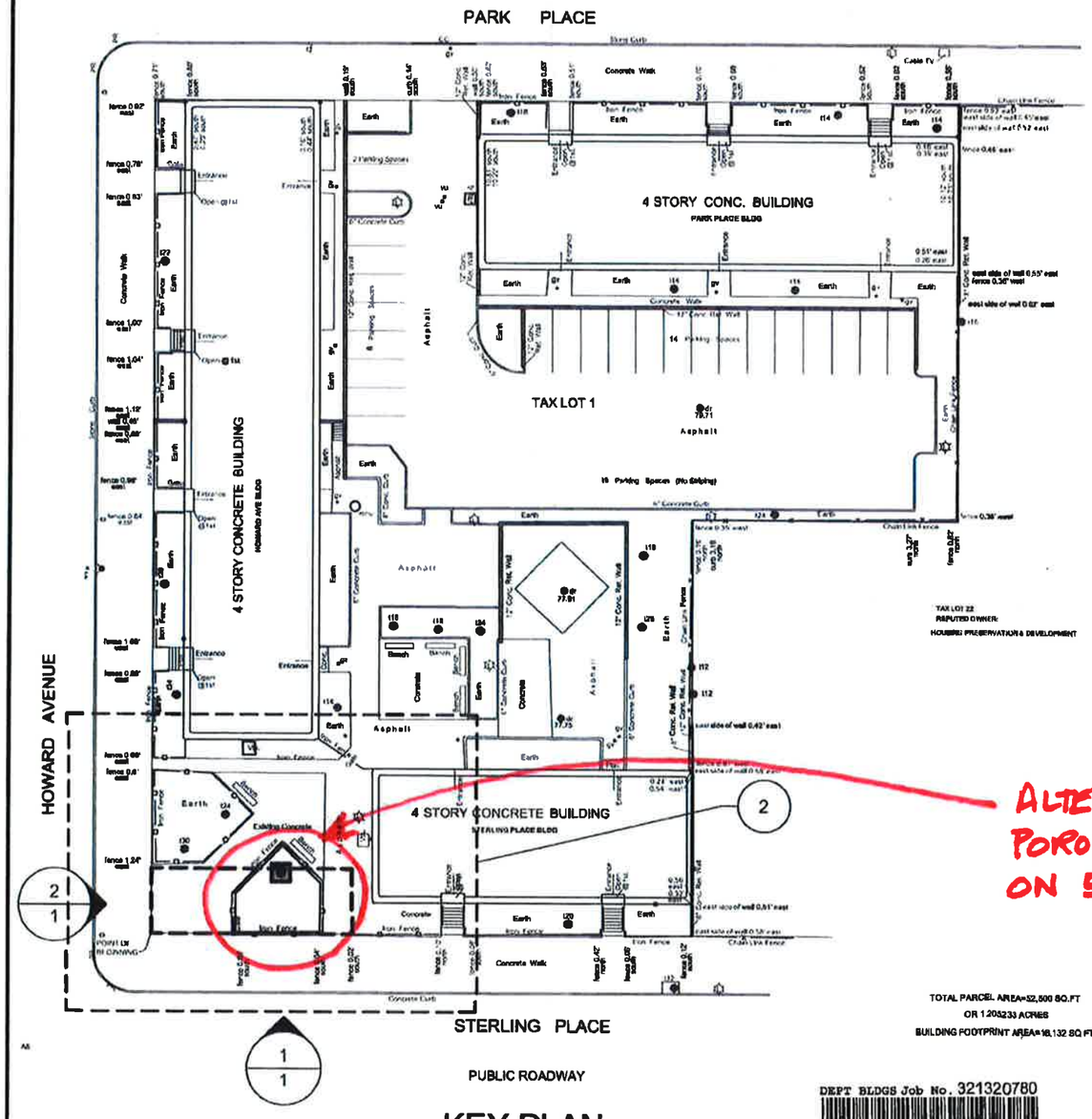
Title # 13-CK-46892

Block: 1467
Lot: 1
County: Kings

Record and Return to:

Omni New York LLC
885 Second Avenue, 31st Floor
New York, NY 10017
Attn: David Fleming, Esq.

Appendix H



KEY PLAN

SCALE: 1"=40'

BLOCK: 1467
LOT: 1

TOTAL PARCEL AREA=52,500 SQ.FT
OR 1.205233 ACRES
BUILDING FOOTPRINT AREA=18,132 SQ.FT.

DEPT BLDGS Job No. 321320780
Scan Code ESHS2405346

0 40' 80'
SCALE: 1" = 40'

SOURCE:
PLAN BASED ON MAP PREPARED BY MONTROSE SURVEYING CO., LLP, DATED 08/04/11 TITLED *ALTA-ACSM LAND TITLE SURVEY.*

PHOTO 1:
STERLING PLACE - FACING NORTH
SCALE: N.T.S

PHOTO 2:
HOWARD AVENUE - FACING EAST
SCALE: N.T.S.

TABLE OF CONTENTS

1. PROJECT LOCATION
2. SURFACE SOIL COVER SYSTEM
3. TREE GRATE, FRAME AND POROUS PAVER DETAIL
4. ALTERNATE TREE GRATE AND STAKES DETAIL

STATE OF NEW YORK
GARY A. ROSE
No. 056744
LICENSED PROFESSIONAL ENGINEER
9/12/16

ACCEPTABLE FOR PERMIT
UNDER DIRECTIVE NO. 14/76
APR 14 2016
RUDOLPH COVELLI, P.E.

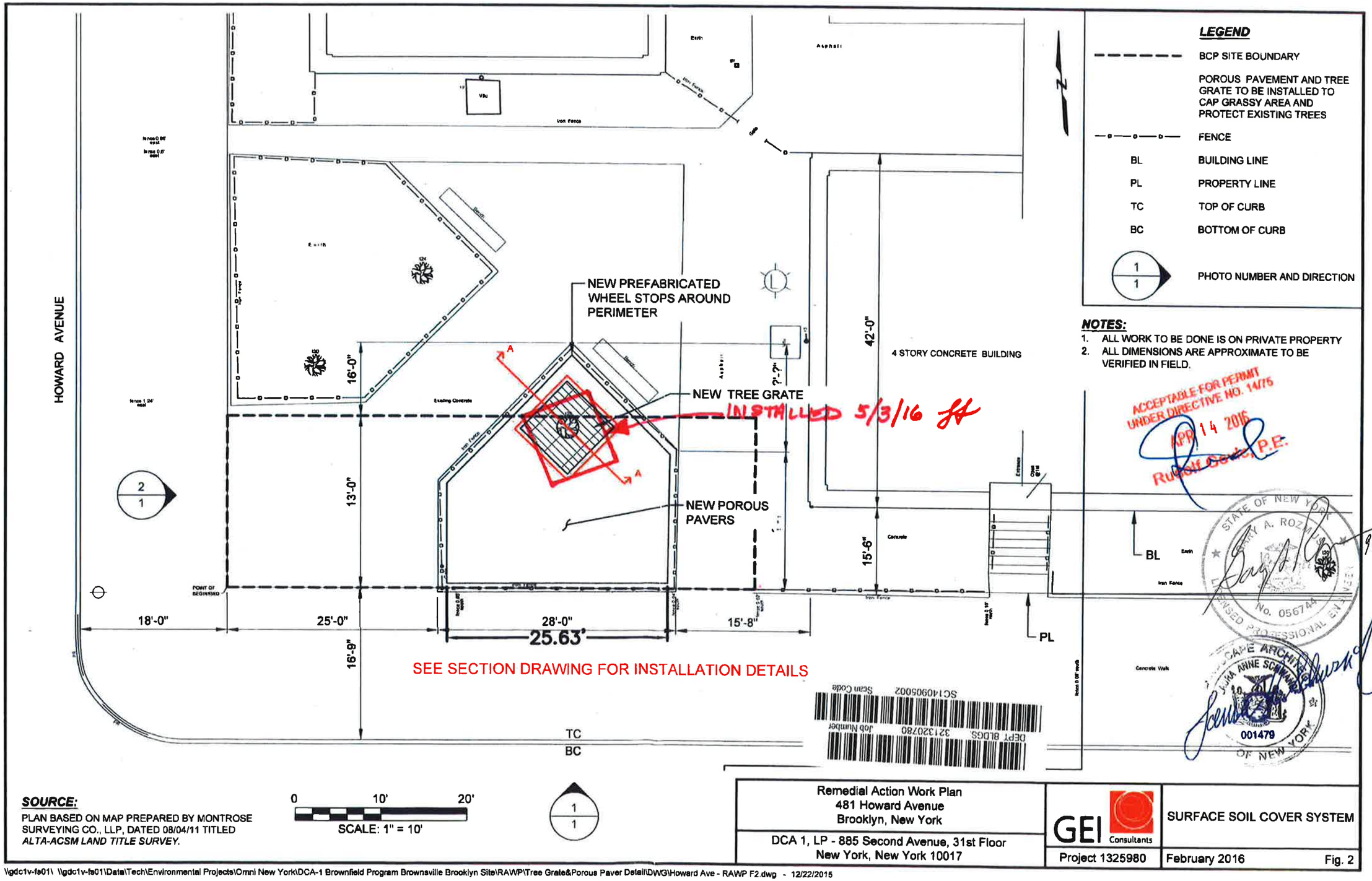
ALTERNATIVE TREE GRATE + POROUS PAVERS INSTALLED ON 5/3/16. SEE AS-BUILT MARK UPS ATTACHED.

LANDSCAPE ARCHITECTURE
LAURA ANNE SCHWANOF
001470
STATE OF NEW YORK

IN ACCORDANCE WITH FEMA'S TECHNICAL BULLETIN 10-01 AND IN ACCORDANCE WITH ACCEPTED PROFESSIONAL PRACTICE, I, LAURA SCHWANOF, CERTIFY THAT THE DESIGN FOR THE AFOREMENTIONED DEVELOPMENT IS REASONABLY SAFE FROM FLOODING AND THAT THE DESIGN OF THE DEVELOPMENT WILL NOT INCREASE THE RISK OF FLOODING TO SURROUNDING AREAS. ADDITIONALLY, I CERTIFY THAT THE DESIGN COMPLIES WITH THE REQUIREMENTS OF APPENDIX G OF THE BUILDING CODE, AND THAT THE LEVEL OF COMPACTED FILL ADJACENT TO ALL STRUCTURES IN THE DEVELOPMENT, EXCLUSIVE OF UNCOMPACTED TOPSOIL, IS PROPOSED TO BE AT OR ABOVE THE BASE FLOOD ELEVATION. FURTHER, I CERTIFY THAT NO FILL IS PROPOSED TO BE PLACED IN THE REGULATORY FLOODWAY OR IN AN AREA DESIGNATED AS A V-ZONE. FURTHER I CERTIFY THAT ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS SHALL BE COMPLIED WITH, AND ALL FEDERAL, STATE, AND LOCAL PERMITS REQUIRED FOR THE PROPOSED WORK HAVE BEEN OBTAINED AND SUBMITTED INTO THE FOLDER FOR THIS JOB.

Remedial Action Work Plan 481 Howard Avenue Brooklyn, New York .	GEI Consultants	PROJECT LOCATION
DCA 1, LP - 885 Second Avenue, 31st Floor New York, New York 10017	Project 1325980	February 2016 Fig. 1

\\gdc1v-fs01\ \\gdc1v-fs01\Data\Tech\Environmental Projects\Omni New York\DCA-1 Brownfield Program Brownsville Brooklyn Site\RAWP\Tree Grate&Porous Paver Detail\DWG\Howard Ave - RAWP F1.dwg - 12/22/2015



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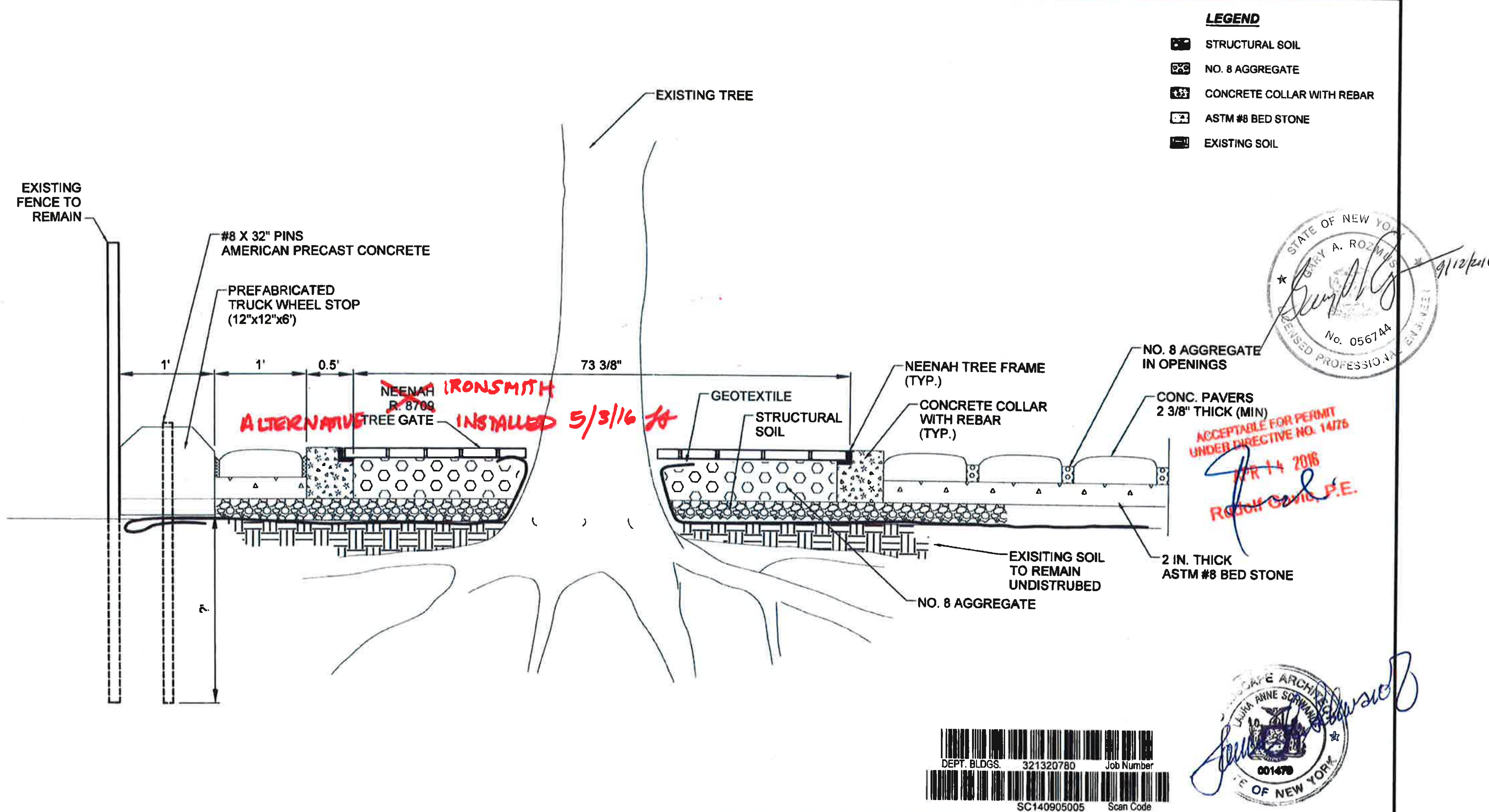
LEGEND
STRUCTURAL SOIL
NO. 8 AGGREGATE
CONCRETE COLLAR WITH REBAR
ASTM #8 BED STONE
EXISTING SOIL
EXISTING TREE
EXISTING FENCE TO REMAIN
#8 X 32" PINS AMERICAN PRECAST CONCRETE
PREFABRICATED TRUCK WHEEL STOP (12"x12"x6')
1'
1'
0.5'
73 3/8"
NEENAH R. 8709 TREE GATE
IRONSMITH
ALTERNATIVE
INSTALLED 5/3/16
GEOTEXTILE
STRUCTURAL SOIL
NEENAH TREE FRAME (TYP.)
CONCRETE COLLAR WITH REBAR (TYP.)
NO. 8 AGGREGATE IN OPENINGS
CONC. PAVERS 2 3/8" THICK (MIN)
EXISITING SOIL TO REMAIN UNDISTRUBED
NO. 8 AGGREGATE
2 IN. THICK ASTM #8 BED STONE
STATE OF NEW YORK
GARY A. ROZMUS
No. 056744
LICENSED PROFESSIONAL ENGINEER
9/12/2016
ACCEPTABLE FOR PERMIT UNDER DIRECTIVE NO. 14/75
APR 14 2016
P.E.
DEPT. BLDGS. 321320780 Job Number
SC140905005 Scan Code
OF NEW YORK
001479
0 0.5' 1' 2
SCALE: 1" = 1'

Remedial Action Work Plan
481 Howard Avenue
Brooklyn, New York

DCA 1, LP - 885 Second Avenue, 31st Floor
New York, New York 10017

GEI Consultants

Project 1325980

TREE GRATE, FRAME AND POROUS PAVER DETAIL

February 2016

Fig. 3

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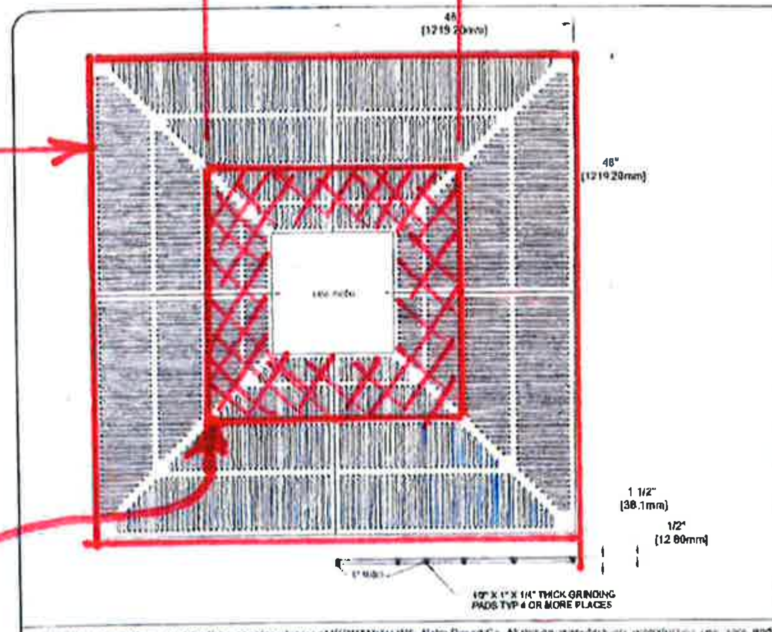
OPENING

IRONSMITH TREE GRATE & FRAME & STAKES INSTALLED 5/3/16

CENTER SCREEN REMOVED TO ACCOMODATE TREE TRUNK



9610 ADA TREE GRATE

96" x 96" tree grate in four sections

1/2 Maximum slot opening for pedestrian safety and A D A Compliance

Cast from 100% recycled Iron, Aluminum, or Bronze for pedestrian loads only

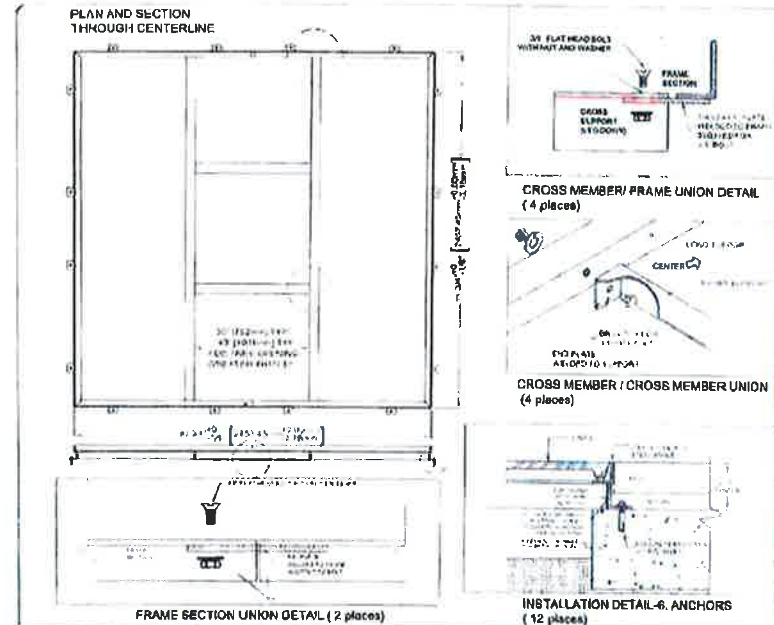
Tree opening: 24",36",51"
Grates can be orderd with or later expanded to these openings. please specify when ordering

Finish: unfinished or Black dip or Enamel paint or Polyurethane Paint or Powder coat
Specify finish and color

Use frame models: 9600F-CS

Weight:
Iron= 1200 lb/ 545 Kg
Aluminum=400 lb/182 Kg

IRONSMITH
41-701 Corporate Way #3
Palm Desert, CA 92260
800 338 4766



SQUARE TREE GRATE FRAME
M9600F-CS-6

WITH DETAIL IN BOLT IN INSTALLATION WITH CONTINUOUS STEEL SKIRT

FRAME JIG WELDED FROM 1-3/4" x 1-3/4" x 1/4" STEEL ANGLE PER ASTM A36 FRAME SKIRT FROM 18ga MILD STEEL

FRAME IS 2 PIECE BOLT TOGETHER

ANCHORS: CONCRETE ANCHOR BOLT BY INSTALLER

CROSS SUPPORTS FABRICATED FROM 2-1/2" x 2-1/2" x 1/4" STEEL ANGLE AND SUPPLIED IN 4 BOLT TOGETHER SECTIONS

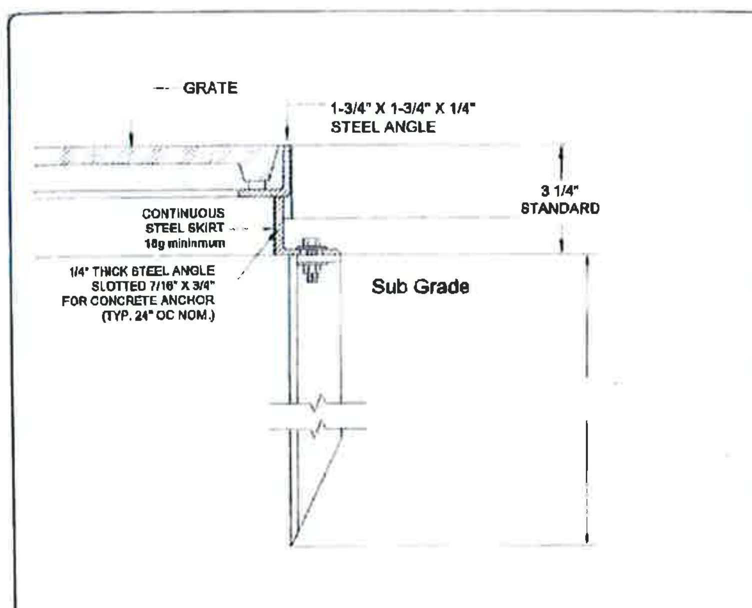
NOTE:
FOR TREE GRATES WITH OPENINGS LARGER THAN 30"
FRAME OPENING IS 41"

FRAME FINISH:
UNFINISHED
or GALVANIZED
or POWDER COAT

CUSTOM SKIRT SIZES CAN BE ORDERED

OTHER INSTALLATION CONFIGURATIONS AVAILABLE

IRONSMITH
41701 Corporate Way #3
Palm Desert, CA 92260
(800)-338-4766
www.ironsmith.biz



Tree Grate Frame detail #6S

Optional detail use when no concrete footers are desired or available.

Standard Detail #6 frame bolted to standard galvanized steel stakes

Use one stake at each standard bolt down location

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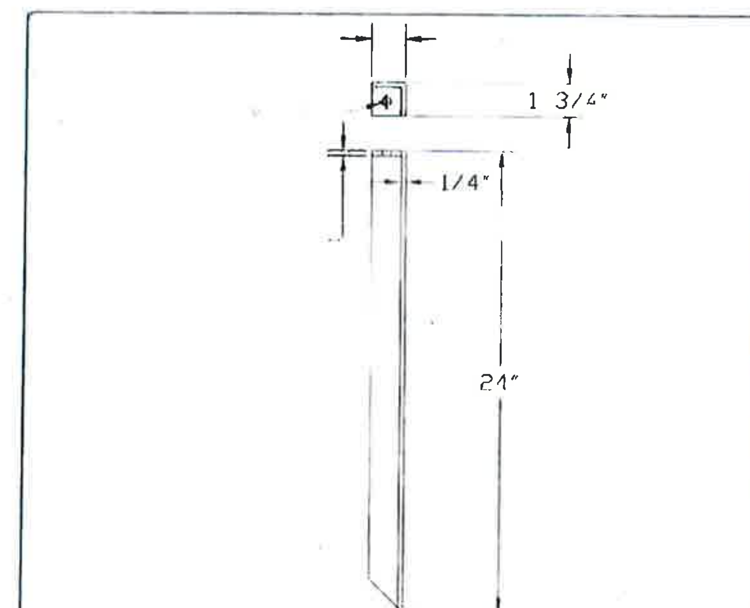

Stakes

From 1-3/4" x 1-3/4" x 1/4" ASTM A36 Mild Steel Angle

Drilled 7/16" diameter for bolting to tree guards or tree grate frames.

Standard Galvanized Finish

Approximate 24" overall length

IRONSMITH
41701 Corporate Way #3
Palm Desert, CA 92260
(800)-338-4766
www.ironsmith.biz

STATE OF NEW YORK — GARY A. ROZMUS — No. 056744 — LICENSED PROFESSIONAL ENGINEER

9/12/2016

ACCEPTABLE FOR PERMIT UNDER DIRECTIVE NO. 14/75
APR 14 2016
Rudolf Govic R.E.

STATE OF NEW YORK — LAURA ANNE SCHWANOF — REGISTERED ARCHITECT — 001479

DEPT. BLDGS. 321320780 Job Number

SC140905006 Scan Code

Remedial Action Work Plan 481 Howard Avenue Brooklyn, New York	GEI Consultants	ALTERNATIVE TREE GRATE AND STAKES DETAIL	
DCA 1, LP - 885 Second Avenue, 31st Floor New York, New York 10017	Project 1325980	February 2016	Fig. 4

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TENANTS' PROTECTION PLAN NOTES:

1. GENERAL - ALL WORK TO BE COMPLETED IN ACCORDANCE WITH NYC 2008 BUILDING CODE (SEC 28-104.8.4) AND REGULATIONS AND ALL OTHER AGENCIES HAVING JURISDICTION.

2. EGRESS - AT ALL TIME IN THE COURSE OF CONSTRUCTION PROVISIONS SHALL BE MADE FOR ADEQUATE EGRESS AS REQUIRED BY THIS CODE AND THE TENANT PROTECTION PLAN SHALL IDENTIFY THE EGRESS THAT WILL BE PROVIDED. REQUIRED EGRESS SHALL NOT BE OBSTRUCTED AT ANY TIME EXCEPT WHERE APPROVED BY THE COMMISSIONER.

3. FIRE SAFETY - ALL NECESSARY LAW AND CONTROLS, INCLUDING THOSE WITH RESPECT TO OCCUPIED DWELLINGS, AS WELL AS ADDITIONAL SAFETY MEASURES NECESSITATED BY THE CONSTRUCTION SHALL BE STRICTLY OBSERVED.
   A. ALL BUILDING MATERIALS OR TENANT ITEMS WHICH ARE STORED AT THE LOCATION OF CONTRACTOR'S OPERATIONS WITHIN THE BUILDING ARE TO BE REMOVED AND STORED IN A LOCKED AREA. ACCESS TO THE AREA TO BE CONTROLLED BY THE OWNER OR THE GENERAL CONTRACTOR.
   B. ALL MATERIALS TO BE STORED IN AN ORDERLY FASHION.
   C. ALL FLAMMABLE MATERIALS TO BE KEPT TIGHTLY SEALED AND IN THEIR RESPECTIVE MANUFACTURER'S CONTAINERS. SUCH MATERIALS ARE TO BE KEPT AWAY FROM HEAT.
   D. ALL FLAMMABLE MATERIALS TO BE USED AND STORED IN AN ADEQUATELY VENTILATED SPACE. PROVIDE TEMPORARY FRESH AIR AS REQUIRED.
   E. ALL ELECTRICAL POWER TO BE SHUT OFF WHERE THERE ARE EXPOSED CONDUITS.
   F. ALL TEMPORARY ELECTRICAL POWER IN THE CONSTRUCTION AREA TO BE SHUT OFF AFTER WORKING HOURS.
   G. CONTRACTOR SHALL PERIODICALLY ENSURE THAT THERE IS NO NATURAL GAS LEAKAGE IN THE BUILDING OR AT ANY FLAMMABLE GAS STORAGE TANKS TO BE USED DURING CONSTRUCTION.
   H. EVERY PRECAUTION SHALL BE TAKEN IN THE BUILDING TO MAINTAIN FIRE SAFETY, FIRE ACCESS OR EGRESS BEFORE, DURING AND AFTER CONSTRUCTION PERIOD.
   I. OPERATION OF ALL WELDING AND OTHER SIMILAR OPEN-FLAME DEVICES SHALL BE BY NEW YORK STATE AND NEW YORK CITY CERTIFIED LICENSED PERSONNEL.
   J. CONTRACTOR SHALL MAINTAIN AT LEAST FOUR (4) ACTIVE AND CURRENT U.L.-APPROVED FIRE EXTINGUISHERS AT THE SITE. THE UNITS SHALL REMAIN AT THE SITE DURING AND AFTER HOURS.

4. HEALTH REQUIREMENTS - SPECIFICATION OF METHODS TO BE USED FOR CONTROL OF DUST, DISPOSAL OF CONSTRUCTION DEBRIS, PEST CONTROL AND MAINTENANCE OF SANITARY FACILITIES, AND LIMITATION OF NOISE TO ACCEPTABLE LEVELS SHALL BE INCLUDED.
   A. DEBRIS, DIRT AND DUST ARE TO BE KEPT TO A MINIMUM AND CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.
   B. CONTRACTOR IS TO ISOLATE THE CONSTRUCTION AREA FROM OCCUPIED BUILDING AREA BY MEANS OF TEMPORARY PARTITIONS OR HEAVYWEIGHT DROP CLOTHS.
   C. DEBRIS, DIRT AND DUST ARE TO BE CLEANED UP AND CLEARED FOR THE BUILDING SITE PERIODICALLY TO AVOID EXCESSIVE ACCUMULATION AND RELATED HAZARDS.
   D. CUTTING OF MASONRY SHALL BE PERFORMED USING VACUUM PUMPS.

5. COMPLIANCE WITH HOUSING STANDARD - THE REQUIREMENTS OF THE NEW YORK CITY HOUSING MAINTENANCE CODE, AND, WHERE APPLICABLE, THE NEW YORK STATE MULTIPLE DWELLING LAW SHALL BE STRICTLY OBSERVED.

6. STRUCTURAL SAFETY - NO STRUCTURAL WORK SHALL BE DONE THAT MAY ENDANGER THE OCCUPANTS.

7. NOISE RESTRICTIONS - WHERE HOURS OF THE DAY OR DAYS OF THE WEEK IN WHICH CONSTRUCTION WORK MAY BE UNDERTAKEN ARE LIMITED PURSUANT TO THE NEW YORK CITY NOISE CONTROL CODE, SUCH LIMITATIONS SHALL BE STATED
   A. CONSTRUCTION OPERATIONS WILL BE CONFINED TO NORMAL WORKING HOURS; 8 A.M. TO 5 P.M., MONDAY TO FRIDAY, EXCEPT LEGAL HOLIDAYS, OR AS AGREED TO BETWEEN THE OWNER/AGENT AND CONTRACTOR.
   B. CONTRACTOR MUST OBTAIN WRITTEN PERMISSION FROM ALL AFFECTED PARTIES TO WORK OTHER THAN REGULAR HOURS.
   C. ABNORMAL CONSTRUCTION NOISE WILL BE KEPT TO A MINIMUM DURING AUTHORIZED SPECIFIC TIMES AND SHALL CEASE DURING NORMAL WORK HOURS WHEN DIRECTED BY THE OWNER.

8. BUILDING SERVICES - CONSTRUCTION WILL NOT INVOLVE INTERRUPTION OF HEATING, WATER, ELECTRICAL, GAS, SPRINKLER SERVICES OR THE WEATHER SEAL UNLESS PRIOR NOTIFICATION IS MADE TO THE OWNER AND APPROVAL SECURED FROM BUILDING MANAGEMENT, AND, IF REQUIRED, ANY GOVERNING AGENCY.

9. WORK STIPULATIONS:
   A. CONSTRUCTION WORK SHALL NOT CREATE DUST, DIRT OR OTHER SUCH INCONVENIENCES TO OCCUPIED AREAS WITHIN THE BUILDING, EXCEPT WHERE SPECIFICALLY AGREED TO.
   B. THE SUPERVISING ENGINEER FOR THE CONTRACTOR SHALL CONTINUALLY MONITOR EXISTING BUILDING STRUCTURE, INCLUDING CONCRETE SLABS AND MASONRY, ETC., THROUGHOUT THE REMOVAL AND INSTALLATION PROCESS. SHOULD ANY UNWARRANTED MOVEMENT, DISPLACEMENT, DETERIORATION, AND/OR SETTLEMENT BE OBSERVED/DOCUMENTED, THEN THE CONTRACTOR SHALL IMMEDIATELY STOP WORK AND PERFORM ANY MANDATORY/REQUIRED SHORING, BRACING, OR ANY OTHER PRUDENT WORK REQUIREMENTS.

STATE OF NEW YORK
GARY A. ROSENTHAL
No. 056744
LICENSED PROFESSIONAL ENGINEER
9/12/2016

ACCEPTABLE FOR PERMIT
UNDER DIRECTIVE NO. 14/75
APR 14 2016
Rudolf Gouge, P.E.

LANDSCAPE ARCHITECT
LAURA ANNE SCHWANKE
001470
OF NEW YORK

DEPT BLDGS Job No. 321320780
Scan Code ESHS1986808

Remedial Action Work Plan 481 Howard Avenue Brooklyn, New York	GEI Consultants	TENANTS PROTECTION PLAN NOTES
DCA 1, LP - 885 Second Avenue, 31st Floor New York, New York 10017	Project 1325980	February 2016 Fig. 5

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