170-174 WEST STREET

BROOKLYN, NEW YORK 11221

Remedial Action Report

NYC VCP Number: 14CVCP236K

E-Designation Site Number: 14EH-N356K

Prepared for:

170W, LLC & 174W, LLC

435 Central Park W

New York, NY 10025-4377

Prepared by:

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

1808 Middle Country Road
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JULY 2017

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LIST OF ACRONYMS

Acronym	Definition
CAMP	Community Air Monitoring Plan
DER-10	NYS DEC Division of Environmental Remediation Technical Guidance Manual 10
EC	Engineering Control
HASP	Health and Safety Plan
IC	Institutional Control
NYC VCP	New York City Voluntary Cleanup Program
NYC DEP	New York City Department of Environmental Protection
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
ORC	Oxygen Release Compound
PID	Photoionization Detector
QA/QC	Quality Assurance/Quality Control
QEP	Qualified Environmental Professional
RAR	Remedial Action Report
RAWP	Remedial Action Work Plan
SCG	Standards, Criteria and Guidance
SCO	Soil Cleanup Objective
SMMP	Soil/Materials Management Plan
SMP	Site Management Plan
SVOCs	Semi-Volatile Organic Compounds
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

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CERTIFICATION

I, Ariel Czemerinksi, certify the following:

- I am currently a registered professional engineer licensed by the State of New York.
- I performed professional engineering services and had primary direct responsibility for implementation of the remedial program for the redevelopment project located at 170-174 West Street, Brooklyn, NY, site number 14CVCP236K.
- I have reviewed this document, to which my signature and seal are affixed.
- The vapor barrier and composite cover system implemented as part of construction during this remedial action were designed by me or a person under my direct supervision and achieve the goals established in the Remedial Action Work Plan for this site. The vapor barrier and composite cover system implemented as part of construction during this remedial action were professionally observed by me or by a person under my direct supervision are accurately reflected in the text and drawings for as-built design reported in this Remedial Action Report.
- The OER-approved Remedial Action Work Plan dated February 2014 and Stipulations in a letter dated April 7, 2014, were implemented and that all requirements in those documents have been substantively complied with. I certify that contaminated soil, fill, liquids or other material from the property were taken to facilities licensed to accept this material in full compliance with applicable laws and regulations.

Name

Ariel Czemerinski

PE License Number

076508

Signature

Date

July 31, 2017

I, Kevin Brussee, certify the following:

- I am a Qualified Environmental Professional.
- I had primary direct responsibility for implementation of the remedial program for the redevelopment project located at 170-174 West Street, Brooklyn, NY, site number 14CVCP236K .
- The OER-approved Remedial Action Work Plan dated February 2014 and Stipulations in a letter dated April 7, 2014, were implemented and that all requirements in those documents have been substantively complied with. I certify that contaminated soil, fill, liquids or other material from the property were taken to facilities licensed to accept this material in full compliance with applicable laws and regulations.

QEP Name KEVIN BRUSSEE

QEP Signature

Date 7/31/2017

EXECUTIVE SUMMARY

170W, LLC & 174W, LLC have enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a property located at 170-174 West Street in the Greenpoint section of Brooklyn, New York. A Remedial Investigation (RI) was performed to compile and evaluate data and information necessary to develop a Remedial Action Work Plan (RAWP). A remedial action was performed pursuant to an OER-approved RAWP in a manner that has rendered the Site protective of public health and the environment consistent with the proposed use of the property. This RAR describes the remedial action performed under the RAWP. The remedial action described in this document provides for the protection of public health and the environment, complies with applicable environmental standards, criteria and guidance and applicable laws and regulations.

Site Location and Background

The Site is located at 170-174 West Street in the Greenpoint section of Brooklyn, New York, and is identified as Block 2521 Lots 5 and 6 on the New York City Tax Map. The Site is 5,512-square feet and is bounded by Block 2521 Lots 8, 9 and 10 (4-story apartment buildings) to the north, a 6,000 ft^2 lot currently being redeveloped with a new 6-story residential building (Block 2521, Lot 1) to the south, Block 2521, Lots 37, 38 and 11 (multi-story apartments/homes) to the east, and West Street to the west.

Prior to redevelopment, the Site was undeveloped and vacant.

Summary of Redevelopment Plan

Two new 6-story apartment buildings, each with a full cellar level and a cellar level concrete capped rear courtyard have been constructed at the Site. The new buildings and concrete covered rear yard cover 100% of the two lots. The current zoning designation for the Site is M1-2/R6A. The use is consistent with existing zoning for the property.

The cellar level of both buildings consists of mechanical space for utilities, bicycle storage rooms, laundry rooms, and accessory space for the first floor apartments. The first floor of both buildings consists of residential apartments, and hallway for access to the common stairs and elevator.

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The new buildings were constructed on a 36 inch thick concrete mat slab that extended to the rear of Lot 6. Therefore, excavation was performed across all of Lot 6 to a depth of approximately 9 feet below grade, and the first 80 feet of Lot 5 to a depth of 9 feet below grade. Additional excavation of the top 4 feet was performed within the rear courtyard behind the new building on Lot 5 to construct a cellar level rear courtyard.

A total of 2,459.14 tons of soil and fill were removed during this remedial action. A total of 1,352.03 tons of D008 Hazardous Lead soil/fill was removed from the first 50 feet of the Site to a depth of 5 feet below grade and transported to Clean Earth of North Jersey located at 105 Jacobus Avenue, Kearny, NJ 07032. The remaining 536.84 tons of historic fill material from the rear of both lots was transported as non-hazardous historic fill material to Clean Earth of Philadelphia located at 3201 South 61st Street, Philadelphia, PA 19153. A total of 570.27 tons of native soil excavated for the new buildings' mat slab was transported to P Park NJ, LLC, located at 100 Planten Avenue, Prospect Park, NJ.

Summary of Description of Surrounding Properties

The area surrounding the Site consists of a mix of residential, commercial and industrial/manufacturing buildings. No hospitals, schools or daycare facilities are located within a 250 ft radius of the Site.

Surrounding Property Usage

Direction	Property Description
North – Adjacent Properties	Block 2521, Lots 8 and 11 176 West Street – Developed with a four story, multi-family walk-up consisting of 4 residential units. 64 Green Street - Developed with a 2-story 2 family building.
South – Adjacent Property	Block 2521, Lots 1 and 38 160 West Street – Currently being redeveloped with a new 6-story apartment building. 63 Huron Street – Developed with a 3-story multi-family walk-up consisting of 3 residential units.
East – Adjacent Properties	Block 2521, Lot 37 65 Huron Street – Developed with a 3-story multi-family walk-up consisting of 5 residential units.
West – Opposite side of West Street	Block 2520, Lots 1and 57 171 West Street – Developed with a 2-story industrial/manufacturing building. 161 West Street – Developed with a 2-story industrial/manufacturing building.

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Summary of Past Uses of Site and Areas of Concern

A Phase I was competed by Environmental Business Consultants in January of 2014. The Site formerly consisted of two 20 ft wide lots (Lots 6 and 7) and one 25 ft wide lot (Lot 5). Historical information (DOB records, Sanborn Maps and City Directory listings) reviewed for the three lots indicated each lot was developed prior to 1887 with residential buildings with basements. The use of the three lots remained residential until the houses were demolished in the late 1970's. The three lots have remained undeveloped and vacant since that time.

Based upon reconnaissance of the Site and surrounding properties, interviews and review of historical records and regulatory agency databases, the Phase I report identified no recognized environmental conditions in connection with the Site.

The AOCs identified for this Site include:

1. Historic fill layer is present at the Site from grade to depths as great as 8 feet below grade.

Summary of the Work Performed under the Remedial Investigation

EBC performed the following scope of work at the Site in January of 2014:

1. Installed six soil borings across the entire project Site, and collected twelve soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality; and
2. Installed four groundwater monitoring wells and collected four groundwater samples and one duplicate groundwater sample to establish groundwater flow and to evaluate groundwater quality; and
3. Installed four soil vapor probes across the Site and collected four soil vapor samples for chemical analysis.

Summary of Findings of Remedial Investigation

1. Elevation of the property is approximately 8 feet.
2. Depth to groundwater at the Site is approximately 8 feet.
3. Depth to bedrock is at the Site is greater than 100 feet.

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4. The stratigraphy of the Site, from the surface down, consists of approximately 6 to 8 feet of historic fill underlain by a native fine brown sand.
5. Laboratory results were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives and Restricted Residential Use Soil Cleanup Objectives as presented in 6NYCRR Part 375-6.8 and CP51. Soil/fill samples showed no PCBs at detectable concentrations. Three VOCs were present at trace concentration but all well below Unrestricted Use SCOs. These VOCs included acetone in one soil sample (26 µg/Kg), p-isopropyltoluene in one soil sample (0.88 µg/Kg), and methylene chloride (ranging from 1.1 to 1.6 µg/Kg), which was detected in nearly all soil samples. Six SVOCs, including benz(a)anthracene (maximum of 7,200 µg/Kg), benzo(a)pyrene (maximum of 6,500 µg/Kg), benzo(b)fluoranthene (maximum of 9,600 µg/Kg), chrysene (maximum of 7,700 µg/Kg), dibenz(a,h)anthracene (maximum of 340 µg/Kg), and indeno(1,2,3-cd)pyrene (maximum of 1,900 µg/Kg) were detected above Restricted Residential Use SCOs in all six shallow soil samples. Benzo(k)fluoranthene (maximum of 2,800 µg/Kg) was also detected within the six shallow soil samples at a concentration above Unrestricted Use SCOs. Several metals including barium (maximum of 779 mg/Kg), copper (maximum of 533 mg/Kg), lead (maximum of 1,580 mg/Kg), mercury (maximum of 2.62 mg/Kg) nickel (maximum of 47.6 mg/Kg), and zinc (maximum of 690 mg/Kg) were detected above Unrestricted Use SCOs. Of these metals, barium, copper, lead, and mercury also exceeded Restricted Residential Use SCOs. Three metals, lead, mercury, and zinc, were detected above Unrestricted Use SCOs within two of the deep soil samples. Three pesticides, including 4,4'-DDE (maximum of 4.4 µg/Kg), 4,4-DDT (maximum of 32 µg/Kg) and dieldrin (max of 8.6 µg/Kg) were detected above Unrestricted Use SCOs within all six of the shallow soil samples collected from the urban fill layer, and one pesticide, 4,4'-DDT (32 µg/Kg) was detected above Unrestricted Use SOCs within one of the deep soil samples. Overall, the findings were consistent with observations for historical fill sites in areas throughout NYC.
6. Groundwater samples were compared to New York State 6NYCRR Part 703.5 Class GA Groundwater Quality Standards (GQS). Groundwater collected during the RI showed no detectable concentrations of PCBs. Six VOCs, including 1,2,4-trimethylbenzene (0.3 µg/L), 2-isopropyltoluene (0.26 µg/L), acetone (maximum of 11 µg/L), cis-1,2-

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dichloroethylene (0.35 µg/L), methylene chloride (0.2 µg/L), and total xylenes (0.21 µg/L) were detected in groundwater at concentrations below their respective GQS. SVOCs, including benzo(a)anthracene (maximum of 0.97 µg/L), benzo-(b)fluoranthene (maximum of 1.2 µg/L), chrysene (maximum of 0.88 µg/L), and indeno(1,2,3-cd)pyrene (maximum of 0.41 µg/L) were detected above GQS in all four monitoring wells. Two pesticides were detected above GQS and included 4,4'-DDT (maximum of 2.5 µg/L) and dieldrin (maximum of 0.47 µg/L) in two of the four monitoring wells. Several metals were present in groundwater, but only iron, lead, magnesium, manganese, and sodium exceeded GQS. The presence of some of these metals in groundwater, specifically those that are common salinity indicators, can be attributed to intrusion or road salting.

7. Soil vapor samples collected during the RI were compared to the compounds listed in the New York State Department of Health (NYSDOH) Final Guidance for Evaluation Soil Vapor Intrusion matrices dated October 2006. The results indicated petroleum related VOCs were present at moderate concentrations and chlorinated VOCs were present at low concentrations. Petroleum-related VOCs (BTEX) were detected at a maximum concentration of 94.55 µg/m^3. Most compounds were detected at concentrations less than 20 µg/m^3. Overall the highest reported concentrations were for acetone (maximum of 280 µg/m^3), heptane (maximum of 56.1 µg/m^3) and hexane (maximum of 123 µg/m^3). Chlorinated trichloroethylene (TCE) and 1,1,1-trichloroethylene were not detected in any of the four soil gas samples. Tetrachloroethylene was detected all four soil gas samples and ranged in concentration from 1.02 to 1.96 µg/m^3. Carbon tetrachloride was detected within one of the four gas samples at a concentration of 0.314 µg/m^3. The PCE and carbon tetrachloride concentrations are below the monitoring level ranges established within the NYSDOH Final Guidance on Soil Vapor Intrusion.

Summary of the Remedial Action

The remedial action achieved protection of public health and the environment for the intended use of the property. The remedial action achieved all of the remedial action objectives established for the project and addressed applicable standards, criterion, and guidance; was effective in both the short-term and long-term and reduced mobility, toxicity and volume of contaminants; was cost effective and implementable; and used standards methods that are well

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established in the industry.

A summary of the milestones achieved in the Remedial Action is as follows: A Pre-Application Meeting was held on January 13, 2014. A Remedial Investigation (RI) was performed in January 2014 and a RI Report dated January 2014 was prepared to evaluate data and information necessary to develop a Remedial Action Work Plan (RAWP). A Site Contact List was established and a RAWP dated February 2014 was prepared and released with a Fact Sheet on March 3, 2014, for a 30-day public comment period. The RAWP with a Stipulation List dated April 7, 2014, was approved by the New York City Office of Environmental Remediation (OER) on May 12, 2014. Site briefings were conducted with New York State Department of Environmental Conservation (NYSDEC) in March 2014. A pre-construction meeting was held on January 30, 2015. A Notice of Potential Generation of Hazardous Waste was submitted to NYSDEC on March 13, 2015. Remedial action began in March of 2015 and completed in March of 2016. Appendix B contains the RAWP and Stipulation List.

The remedial action consisted of the following tasks:

1. Prepared a Community Protection Statement and implemented a Citizen Participation Plan;
2. Mobilized site security, equipment, utility mark outs and marking & staking excavation areas;
3. Performed a Waste Characterization Study and a lead delineation soil sampling event prior to excavation activities. The Waste Characterization Study performed on January 15, 2015, consisted of the collection of two 5-point composite waste characterization soil samples and two grab soil samples. The lead delineation soil sampling was performed on February 12, 2015, and consisted of the collection of seven 5-point composite soil samples, and four grab soil samples to minimize the amount of soil that required handling/disposal as D008 Hazardous Lead Soil;
4. Performed a Community Air Monitoring Program for particulates and volatile organic carbon compounds during soil disturbance activities;
5. Established Track 4 Site Specific Soil Cleanup Objectives (SCOs). The following Track 4 SCOs were utilized: total SVOCs 250ppm, copper 270ppm, barium 750ppm, lead 1000ppm, and mercury 2.5ppm;

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6. The following excavations were performed for redevelopment purposes: The historic fill material (top 4-5 feet) was excavated across the entire Site. Additional excavation for the new buildings' cellar was performed to depth of approximately 9 feet across all of Lot 6, and the first 80 feet of Lot 5;
7. The project generated hazardous waste between March 2015 and April 2015. OER submitted the project's full hazardous waste certification package to NYSDEC on June 13, 2016;
8. A total of 2,459.14 tons of soil and fill were removed during this remedial action. A total of 1,352.03 tons of D008 Hazardous Lead soil/fill was removed from the first 50 feet of Lots 5 and 6 to a depth of approximately 5 feet and transported as to Clean Earth of North Jersey located at 105 Jacobus Avenue, Kearny, NJ 07032. An additional 536.84 tons of nonhazardous historic fill material was excavated from across the remainder of the Site to a depth of 4 to 5 feet and transported to Clean Earth of Philadelphia located at 3201 South 61st Street, Philadelphia, PA 19153. Additional excavation of native soil was performed for the new buildings' cellar. A total of 570.27 tons of native soil was transported to Prospect Park NJ, LLC, located at 100 Planten Avenue, Prospect Park, NJ;
9. Transported and disposed off-Site all soil/fill material at above listed permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and the RAWP. Appropriately segregated excavated media on Site;
10. Screened excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID;
11. Conducted materials management of excavated materials including temporarily stockpiling and segregating in accordance with defined material types and to prevent co-mingling of contaminated material and non-contaminated materials;
12. Appropriately segregated excavated media onsite prior to disposal;
13. Collected and analyzed four post-excavation endpoint soil samples (EP1 through EP4) to determine the performance of the remedy with respect to attainment of SCOs. Track 1 Unrestricted Use SCOs were achieved for soil;
14. Imported materials (blue stone) for use as backfill in compliance with the RAWP and in accordance with applicable laws and regulations. Imported 2 truck loads (approximately 20 cubic yards) of 3/4" virgin mined blue stone for use as backfill below the rat slab from

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Transit Mix Corp. located at 60 Morgan Avenue, Brooklyn, New York 11237. The source of the blue stone was Rawson Materials facility located at 349 Norwich Road, Plainfield, Connecticut;

15. As part of development, installed a waterproofing membrane beneath the building slab and behind foundation walls. The waterproofing membrane consists of Grace Preprufe® 300R. Preprufe® 300R is a 1.2 mm (0.046 in) thick HDPE film with a pressure sensitive adhesive that bonds to the poured concrete. The waterproofing membrane was installed by the excavation contractor, Magellan Concrete Structures Corp.;
16. As part of development, constructed an engineered composite cover. The contractor for the cover construction was Zephyr Construction. The engineered composite cover consists of the following:
    - A 36 to 40 inch thick concrete mat slab underlain by a waterproofing membrane (Grace Preprufe 300R), a 2 inch thick concrete rat slab, and a compacted 2 inch layer of ¾" virgin mined blue stone installed over native soil.
    - A 4 inch thick concrete slab poured over native soil in the 625 ft^2 rear courtyard behind the new building on Lot 5.
17. Performed all activities required for the remedial action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations; and
18. Submitted reports during construction oversight activities. Reports were submitted from March 25, 2015, to June 23, 2016;
19. Implemented storm-water pollution prevention measures in compliance with applicable laws and regulations;
20. Submitted a Sustainability Report; and
21. Submitted an RAR that describes the Remedial Action; certifies that the remedial requirements defined in the RAWP have been achieved; defines the Site boundaries; and lists any changes from the RAWP.

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REMEDIAL ACTION REPORT

1.0 SITE BACKGROUND

170W, LLC and 174W, LLC LLC have enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a property located at 170-174 West Street in the Greenpoint section of Brooklyn, New York. The boundary of the property subject to this Remedial Action is shown in Figure 2 and includes, in its entirety, Brooklyn Block 2521 and Lots 5 and 6. The Remedial Action was performed pursuant to the OER-approved RAWP in a manner that has rendered the property protective of public health and the environment consistent with its intended use. This RAR describes the remedial action performed under the RAWP. The remedial action described in this document provides for the protection of public health and the environment, complies with applicable environmental standards, criteria and guidance and applicable laws and regulations.

1.1 Site Location and Background

The Site is located at 170-174 West Street in the Greenpoint section of Brooklyn, New York, and is identified as Block 2521 Lots 5 and 6 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 5,512-square feet and is bounded by Block 2521 Lots 8, 9 and 10 (4-story apartment buildings) to the north, a 6,000 ft^2 lot currently being redeveloped with a new 6-story residential building (Block 2521, Lot 1) to the south, Block 2521, Lots 37, 38 and 11 (multi-story apartments/homes) to the east, and West Street to the west. A map of the site boundary is shown on Figure 2. Prior to redevelopment, the Site was undeveloped and vacant.

1.2 Implemented Redevelopment Plan

Two new 6-story apartment buildings, each with a full cellar level and a cellar level concrete capped rear courtyard have been constructed at the Site. The new buildings and the concrete capped rear yard covers 100% of the two lots. Layout of the site redevelopment is presented in Figure 3. The current zoning designation for the Site is M1-2/R6A. The use is consistent with existing zoning for the property.

The cellar level of both buildings consists of mechanical space for utilities, bicycle storage rooms, laundry rooms, and accessory space for the first floor apartments. The first floor of both

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buildings consists of residential apartments, and hallway for access to the common stairs and elevator.

The new buildings were constructed on a 36 inch thick concrete mat slab that extended to the rear of Lot 6. Therefore, excavation was performed across all of Lot 6 to a depth of approximately 9 feet below grade, and the first 80 feet of Lot 5 to a depth of 9 feet below grade. Additional excavation of the top 4 feet was performed within the rear courtyard behind the new building on Lot 5 to construct a cellar level rear courtyard.

A total of 2,459.14 tons of soil and fill were removed during this remedial action. A total of 1,352.03 tons of D008 Hazardous Lead soil/fill was removed from the first 50 feet of the Site to a depth of 5 feet below grade and transported to Clean Earth of North Jersey located at 105 Jacobus Avenue, Kearny, NJ 07032. The remaining 536.84 tons of historic fill material from the rear of both lots was transported as non-hazardous historic fill material to Clean Earth of Philadelphia located at 3201 South 61st Street, Philadelphia, PA 19153. A total of 570.27 tons of native soil excavated for the new buildings' mat slab was transported to P Park NJ, LLC, located at 100 Planten Avenue, Prospect Park, NJ.

1.3 Description of Surrounding Property

The area surrounding the Site consists of a mix of residential, commercial and industrial/manufacturing buildings. Figure 4 shows the surrounding land usage of the adjacent properties listed below as well as additional properties located up to 500 feet away from the Site. No hospitals, schools or daycare facilities are located within a 250 ft radius of the Site.

Surrounding Property Usage

Direction	Property Description
North – Adjacent Properties	Block 2521, Lots 8 and 11 176 West Street – Developed with a four story, multi-family walk-up consisting of 4 residential units. 64 Green Street - Developed with a 2-story 2 family building.
South – Adjacent Property	Block 2521, Lots 1 and 38 160 West Street – Currently being redeveloped with a new 6-story apartment building. 63 Huron Street – Developed with a 3-story multi-family walk-up consisting of 3 residential units.

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East – Adjacent Properties	Block 2521, Lot 37 65 Huron Street – Developed with a 3-story multi-family walk-up consisting of 5 residential units.
West – Opposite side of West Street	Block 2520, Lots 1and 57 171 West Street – Developed with a 2-story industrial/manufacturing building. 161 West Street – Developed with a 2-story industrial/manufacturing building.

1.4 Summary of Past Uses of Site and Environmental Findings

A Phase I was competed by Environmental Business Consultants in January of 2014. The Site formerly consisted of two 20 ft wide lots (Lots 6 and 7) and one 25 ft wide lot (Lot 5). Historical information (DOB records, Sanborn Maps and City Directory listings) reviewed for the three lots indicated each lot was developed prior to 1887 with residential buildings with basements. The use of the three lots remained residential until the houses were demolished in the late 1970's. The three lots have remained undeveloped and vacant since that time.

Based upon reconnaissance of the Site and surrounding properties, interviews and review of historical records and regulatory agency databases, the Phase I report identified no recognized environmental conditions in connection with the Site.

The AOCs identified for this Site include:

1. Historic fill layer was present at the Site from grade to depths as great as 5 feet below grade.

1.5 Remedial Investigation

A remedial investigation was performed and the results are documented in a document called "*Remedial Investigation Report, 170-174 West Street*", dated January 2014 (Appendix A).

1.5.1 Summary of the Work Performed under the Remedial Investigation

EBC performed the following scope of work at the Site in January of 2014:

1. Installed six soil borings across the entire project Site, and collected twelve soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality; and

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2. Installed four groundwater monitoring wells and collected four groundwater samples and one duplicate groundwater sample to establish groundwater flow and to evaluate groundwater quality; and
3. Installed four soil vapor probes across the Site and collected four soil vapor samples for chemical analysis.

1.5.2 Summary of Environmental Findings

1. Elevation of the property is approximately 8 feet.
2. Depth to groundwater at the Site is approximately 8 feet.
3. Depth to bedrock is at the Site is greater than 100 feet.
4. The stratigraphy of the Site, from the surface down, consists of approximately 6 to 8 feet of historic fill underlain by a native fine brown sand.
5. Laboratory results were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives and Restricted Residential Use Soil Cleanup Objectives as presented in 6NYCRR Part 375-6.8 and CP51. Soil/fill samples showed no PCBs at detectable concentrations. Three VOCs were present at trace concentration but all well below Unrestricted Use SCOs. These VOCs included acetone in one soil sample (26 µg/Kg), p-isopropyltoluene in one soil sample (0.88 µg/Kg), and methylene chloride (ranging from 1.1 to 1.6 µg/Kg), which was detected in nearly all soil samples. Six SVOCs, including benz(a)anthracene (maximum of 7,200 µg/Kg), benzo(a)pyrene (maximum of 6,500 µg/Kg), benzo(b)fluoranthene (maximum of 9,600 µg/Kg), chrysene (maximum of 7,700 µg/Kg), dibenz(a,h)anthracene (maximum of 340 µg/Kg), and indeno(1,2,3-cd)pyrene (maximum of 1,900 µg/Kg) were detected above Restricted Residential Use SCOs in all six shallow soil samples. Benzo(k)fluoranthene (maximum of 2,800 µg/Kg) was also detected within the six shallow soil samples at a concentration above Unrestricted Use SCOs. Several metals including barium (maximum of 779 mg/Kg), copper (maximum of 533 mg/Kg), lead (maximum of 1,580 mg/Kg), mercury (maximum of 2.62 mg/Kg), nickel (maximum of 47.6 mg/Kg), and zinc (maximum of 690 mg/Kg) were detected above Unrestricted Use SCOs. Of these metals, barium, copper, lead, and mercury also exceeded Restricted Residential Use. Three metals, lead, mercury, and zinc, were detected above Unrestricted Use SCOs within two of the deep soil samples. Three pesticides, including 4,4'-DDE

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(maximum of 4.4 µg/Kg), 4,4-DDT (maximum of 32 µg/Kg) and dieldrin (max of 8.6 µg/Kg) were detected above Unrestricted Use SCOs within all six of the shallow soil samples collected from the urban fill layer, and one pesticide, 4,4'-DDT (32 µg/Kg) was detected above Unrestricted Use SOCs within one of the deep soil samples. Overall, the findings were consistent with observations for historical fill sites in areas throughout NYC.

6. Groundwater samples were compared to New York State 6NYCRR Part 703.5 Class GA Groundwater Quality Standards (GQS). Groundwater collected during the RI showed no detectable concentrations of PCBs. Six VOCs, including 1,2,4-trimethylbenzene (0.3 µg/L), 2-isopropyltoluene (0.26 µg/L), acetone (maximum of 11 µg/L), cis-1,2-dichloroethylene (0.35 µg/L), methylene chloride (0.2 µg/L), and total xylenes (0.21 µg/L) were detected in groundwater at concentrations below their respective GQS. SVOCs, including benzo(a)anthracene (maximum of 0.97 µg/L), benzo-(b)fluoranthene (maximum of 1.2 µg/L), chrysene (maximum of 0.88 µg/L), and indeno(1,2,3-cd)pyrene (maximum of 0.41 µg/L) were detected above GQS in all four monitoring wells. Two pesticides were detected above GQS and included 4,4'-DDT (maximum of 2.5 µg/L) and dieldrin (maximum of 0.47 µg/L) in two of the four monitoring wells. Several metals were present in groundwater, but only iron, lead, magnesium, manganese, and sodium exceeded GQS. The presence of some of these metals in groundwater, specifically those that are common salinity indicators, can be attributed to intrusion or road salting.
7. Soil vapor samples collected during the RI were compared to the compounds listed in the New York State Department of Health (NYSDOH) Final Guidance for Evaluation Soil Vapor Intrusion matrices dated October 2006. The results indicated petroleum related VOCs were present at moderate concentrations and chlorinated VOCs were present at low concentrations. Petroleum-related VOCs (BTEX) were detected at a maximum concentration of 94.55 µg/m^3. Most compounds were detected at concentrations less than 20 µg/m^3. Overall the highest reported concentrations were for acetone (maximum of 280 µg/m^3), heptane (maximum of 56.1 µg/m^3) and hexane (maximum of 123 µg/m^3). Chlorinated trichloroethylene (TCE) and 1,1,1-trichloroethylene were not detected in any of the four soil gas samples. Tetrachloroethylene was detected all four soil gas samples and ranged in concentration from 1.02 to 1.96 µg/m^3. Carbon tetrachloride was detected

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within one of the four gas samples at a concentration of 0.314 µg/m^3. The PCE and carbon tetrachloride concentrations are below the monitoring level ranges established within the NYSDOH Final Guidance on Soil Vapor Intrusion.

For more detailed results, consult the RIR. Based on an evaluation of the data and information from the RIR (Appendix A) and the RAWP (Appendix B), disposal of significant amounts of hazardous waste was not suspected at this Site.

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2.0 DESCRIPTION OF REMEDIAL ACTIONS

The remedial action was performed in accordance with an OER approved Remedial Action Work Plan (Appendix B) and achieved the remedial action objectives established for the project. The remedial action was evaluated in an alternatives analysis and was determined to be protective of human health and the environment, compliant with standards, criteria, and guidelines (SCGs), effective in the short-term, effective in the long-term, capable of attaining appropriate levels of reduction of toxicity, mobility, or volume of contaminated material, implementable, cost effective, acceptable to the community, consistent with land uses, and sustainable.

A summary of the milestones achieved in the Remedial Action is as follows: A Pre-Application Meeting was held on January 13, 2014. A Remedial Investigation (RI) was performed in May and October of 2014 and a RI Report dated January 2014 was prepared to evaluate data and information necessary to develop a Remedial Action Work Plan (RAWP). A Site Contact List was established and a RAWP dated February 2014 was prepared and released with a Fact Sheet on March 3, 2014, for a 30-day public comment period. The RAWP with a Stipulation List dated April 7, 2014, was approved by the New York City Office of Environmental Remediation (OER) on May 12, 2014. Site briefings were conducted with New York State Department of Environmental Conservation (NYSDEC) in March 2014. A pre-construction meeting was held on January 30, 2015. Remedial action began in March of 2015 and completed in March of 2016.

The remedial action consisted of the following tasks:

1. Prepared a Community Protection Statement and implemented a Citizen Participation Plan;
2. Mobilized site security, equipment, utility mark outs and marking & staking excavation areas;
3. Performed a Waste Characterization Study and a lead delineation soil sampling event prior to excavation activities. The Waste Characterization Study performed on January 15, 2015, consisted of the collection of two 5-point composite waste characterization soil samples and two grab soil samples. The lead delineation soil sampling was performed on February 12, 2015, and consisted of the collection of seven 5-point composite soil

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samples, and four grab soil samples to minimize the amount of soil that required handling/disposal as D008 Hazardous Lead Soil;

4. Performed a Community Air Monitoring Program for particulates and volatile organic carbon compounds during soil disturbance activities;
5. Established Track 4 Site Specific Soil Cleanup Objectives (SCOs). The following Track 4 SCOs were utilized: total SVOCs 250 ppm, copper 270 ppm, barium 750 ppm, lead 1000 ppm, and mercury 2.5 ppm;
6. The following excavations were performed for redevelopment purposes: The historic fill material (top 4-5 feet) was excavated across the entire Site. Additional excavation for the new buildings' cellar was performed to depth of approximately 9 feet across all of Lot 6, and the first 80 feet of Lot 5;
7. The project generated hazardous waste between March 2015 and April 2015. OER submitted the project's full hazardous waste certification package to NYSDEC on June 13, 2016;
8. A total of 2,459.14 tons of soil and fill were removed during this remedial action. A total of 1,352.03 tons of D008 Hazardous Lead soil/fill was removed from the first 50 feet of Lots 5 and 6 to a depth of approximately 5 feet and transported as to Clean Earth of North Jersey located at 105 Jacobus Avenue, Kearny, NJ 07032. An additional 536.84 tons of nonhazardous historic fill material was excavated from across the remainder of the Site to a depth of 4 to 5 feet and transported to Clean Earth of Philadelphia located at 3201 South 61st Street, Philadelphia, PA 19153. Additional excavation of native soil was performed for the new buildings' cellar. A total of 570.27 tons of native soil was transported to Prospect Park NJ, LLC, located at 100 Planten Avenue, Prospect Park, NJ;
9. Transported and disposed off-Site all soil/fill material at above listed permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and the RAWP. Appropriately segregated excavated media on Site;
10. Screened excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID;
11. Conducted materials management of excavated materials including temporarily stockpiling and segregating in accordance with defined material types and to prevent co-mingling of contaminated material and non-contaminated materials;

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12. Appropriately segregated excavated media onsite prior to disposal;
13. Collected and analyzed four post-excavation endpoint soil samples (EP1 through EP4) to determine the performance of the remedy with respect to attainment of SCOs. Track 1 Unrestricted Use SCOs were achieved for soil;
14. Imported materials (blue stone) for use as backfill in compliance with the RAWP and in accordance with applicable laws and regulations. Imported 2 truck loads (approximately 20 cubic yards) of 3/4" virgin mined blue stone for use as backfill below the rat slab from Transit Mix Corp. located at 60 Morgan Avenue, Brooklyn, New York 11237. The source of the blue stone was Rawson Materials facility located at 349 Norwich Road, Plainfield, Connecticut;
15. As part of development, installed a waterproofing membrane beneath the building slab and behind foundation walls. The waterproofing membrane consists of Grace Preprufe® 300R. Preprufe® 300R is a 1.2 mm (0.046 in) thick HDPE film with a pressure sensitive adhesive that bonds to the poured concrete. The waterproofing membrane was installed by the excavation contractor, Magellan Concrete Structures Corp.;
16. As part of development, constructed an engineered composite cover. The contractor for the cover construction was Zephyr Construction. The engineered composite cover consists of the following:
    - A 36 to 40 inch thick concrete mat slab underlain by a waterproofing membrane (Grace Preprufe 300R), a 2 inch thick concrete rat slab, and a compacted 2 inch layer of ¾" virgin mined blue stone installed over native soil.
    - A 4 inch thick concrete slab poured over native soil in the 625 ft^2 rear courtyard behind the new building on Lot 5.
17. Performed all activities required for the remedial action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations;
18. Submitted reports during construction oversight activities. Reports were submitted from March 25, 2015, to June 23, 2016;
19. Implemented storm-water pollution prevention measures in compliance with applicable laws and regulations;
20. Submitted a Sustainability Report; and

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21. Submitted an RAR that describes the Remedial Action; certifies that the remedial requirements defined in the RAWP have been achieved; defines the Site boundaries; and lists any changes from the RAWP.

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3.0 COMPLIANCE WITH REMEDIAL ACTION WORK PLAN

3.1 Construction Health & Safety Plan (CHASP)

The remedial construction activities performed under this program were in compliance with the Construction Health and Safety Plan and applicable laws and regulations. The Site Safety Coordinator was Kevin Waters - EBC.

3.2 Community Air Monitoring Plan (CAMP)

The Community Air Monitoring Plan provided for the collection and analysis of air samples during remedial construction activities to ensure proper protections were employed to protect workers and the neighboring community. Monitoring was performed from March 25, 2015, to June 23, 2016, in compliance with the Community Air Monitoring Plan in the approved RAWP. The results of Community Air monitoring are shown in Appendix D.

3.3 Soil/Materials Management Plan

The Soil/Materials Management Plan in the RAWP provided detailed plans for managing all soils/materials that were disturbed at the Site, including excavation, handling, storage, transport and disposal. It also included a series of controls to assure effective, nuisance free remedial activity in compliance with applicable laws and regulations. Remedial construction activities performed under this program were in full compliance with the SMMP in the approved RAWP.

3.4 Storm-Water Pollution Prevention

Storm water pollution prevention included physical methods and processes to control and/or divert surface water flows and to limit the potential for erosion and migration of Site soils, via wind or water. Remedial construction activities performed under this program were in full compliance with methods and processes defined in the RAWP for storm water prevention and applicable laws and regulations.

3.5 Deviations From the Remedial Action Work Plan

Deviations from the Remedial Action Work Plan are summarized below:

- The RAP proposed a redevelopment with two new 6-story apartment buildings with full cellars, a small cellar level courtyard behind both buildings, and an additional grade level

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courtyard. However, the redevelopment plan was changed to remove the grade level courtyard and only have a cellar level courtyard behind the building of Lot 5.

- The RAP proposed excavation of the first 60 feet of Lot 6 and the first 75 feet of Lot 5 to a depth of approximately 8 feet for construction of the buildings' cellar levels and rear cellar level courtyards. However, the foundation plan was revised to incorporate a 36 inch thick concrete mat slab across all of Lot 6, and the first 75 feet of Lot 5. The mat slab required excavation of all of Lot 6 to a depth of 9 feet below grade, and the first 75 feet of Lot 5 to a depth of 9 feet.
- Approximately 20 cubic yards of ¾" blue stone was imported from Transit Mix Corp. located at 60 Morgan Avenue, Brooklyn, NY 11237 for use below the mat slab without OER sign-off. However, in accordance with NYSDEC DER-10 / Technical Guidance for Site Investigation and Remediation (Issued may 3, 2010), ¾ inch stone is suitable for use as backfill without chemical testing provided that the virgin mined stone contains less than 10% by weight material which would pass through a size 80 sieve. A representative sieve analysis report for of ¾" blue stone is provided in Appendix L. The source of the blue stone was Rawson Materials facility located at 349 Norwich Road, Plainfield, Connecticut. The material contains no fines and is suitable for use as backfill below the mat slab.
- Excavation and truck loading was performed on May 9, 2015. However, EBC was not contacted to provide oversight and air monitoring. Therefore, air monitoring, truck inspection, and soil screening was not performed that day and a daily status report was not prepared. However, the soil was transported to the correct disposal facility and the work was limited to loading three trucks.
- The RAP proposed installation of 20-mil Raven Industries' VaporBlock 20 Plus vapor barrier beneath the building slab and along the sidewalls. However, the vapor barrier installed beneath the building and parking area slabs and below/around the elevator pit was 46-mil Grace Preprufe 300R.
- RAWP proposed Site Specific Track 4 SCOs. However, end point results achieved Unrestricted Use (Track 1) SCOs.

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No other significant deviations from the Remedial Action Work Plan occurred during implementation of the Remedial Action Work Plan.

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4.0 REMEDIAL PROGRAM

4.1 Project Organization

The PE responsible for implementation of the remedial action for this project was Ariel Czemerinski P.E., AMC Engineering. On-Site air monitoring in accordance with the CHASP and CAMP, soil screening and soil sampling was performed by Taylor Hard, Patrick Recio, Rueben Levinton, Greg Swirson, and/or Kevin Waters of EBC or Andrea Sarmiento of AMC Engineering. The Qualified Environmental Professional which implemented the remedial action was Kevin Brussee, Project Manager-EBC.

The excavation and foundation contractor was Zephyr Construction, and the developer was HML Developments LLC.

4.2 Site Controls

Site Preparation

The Site consisted of two adjacent vacant lots, therefore no demolition was performed. Plans for the new buildings (NYC DOB Job numbers NB-320594095 and NB320594102) were approved on October 28, 2014. Waste characterization soil sampling was performed on January 15, 2015, prior to excavation to obtain soil disposal approval and to minimize the need for on-Site soil stockpiles. Additional lead delineation soil sampling was performed on February 12, 2015, to minimize the amount of soil that required handling/disposal as D008 Hazardous Lead soil/fill. On March 25, 2016, equipment was mobilized to the Site to begin excavation of on-Site soil. An OER Project Notice was erected at the project entrance and was in place during all phases of the Remedial Action.

Soil Screening

All intrusive soil excavation activities were overseen by an EBC qualified environmental professional (QEP). In addition to extensive sampling and chemical testing of soils on the Site, on days when EBC was present on-site, excavated soil was screened continuously using hand-held instruments, and by olfactory and visual inspection to ensure proper material handling and management, and community protection.

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Based on the waste characterization results collected in January 2015, and the lead delineation soil sampling performed in February 2015, fill material across the front 50 ft of both lots required classification as D008 Hazardous Lead due to a TCLP lead concentration greater than 5.0 mg/L. The remaining historic fill material to be excavated from the rear of both lots was characterized as nonhazardous historic fill material. Following excavation and off-Side disposal of the D008 Hazardous Lead soil/fill from the front of the Site (top 5 feet), EBC field screened the remaining native soil for evidence of fill material to ensure complete removal of the soil/fill. A total of eight endpoint samples were then collected across the first 50 feet of the Site from the top of the native soil layer (approximately 5 ft below grade) for laboratory analysis of lead to provide documentation of complete removal of historic fill with an elevated lead concentration. Lead was detected in each of the eight endpoint samples at a concentration below NYSDEC Part 375.6 Unrestricted Use SCOs.

Excavation to a depth of approximately 4 to 5 feet was performed across the entire Site to remove the historic fill material layer. Additional excavation for the new buildings' cellar was performed to depth of approximately 9 feet across all of Lot 6, and the first 80 feet of Lot 5. No physical or olfactory evidence of a spill was observed during Site excavation.

Stockpile Management

For the majority of the project, soil was excavated from the ground and live loaded into trucks to eliminate the need for stockpiling. However, any soil stockpiles that were generated and kept overnight were covered with 6-mil poly-sheeting to prevent dust and minimize odors. Stockpile covers were inspected by the EBC QEP.

Truck Inspection

A stabilized construction entrance constructed of a bed of crushed concrete entered and exited from West Street. The stabilized entrance was inspected on a daily basis during soil loading activities and reinforced as needed with additional concrete material to prevent the accumulation of ruts, mud or soil and to minimize the potential for impacted soil to be dispersed beyond the Site boundary. Before exiting the Site, trucks were examined for evidence of contaminated soil on the undercarriage, body, and wheels. If soil/debris was observed, it was removed utilizing brooms or shovels.

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Site Security

An 8-ft high construction fence was constructed around the perimeter of the property. The fence was locked with a chain and padlock during non-working hours/days.

Nuisance Controls

No petroleum or other odors were detected during removal of the historic fill layer and native soil. No odor and no elevated PID readings were recorded during implementation of the CAMP. Dust and odor was minimized by excavating and live-loading directly into trucks, and covering stockpiles with 6-mil poly sheeting overnight during off-work hours.

Reporting

Daily status reports were prepared and forwarded to the OER project manager for construction days in which soil disturbance activities were performed (soil excavation/loading). A copy of each of the daily status reports is included in Appendix E.

Digital photographs of the remedial action are included in Appendix C.

4.3 Materials Excavation and Removal

4.3.1 Waste Characterization Soil Sampling

Waste characterization soil sampling was performed on January 15, 2015, and consisted of the excavation of five test pits to a depth of approximately 8 feet below grade. From the five test pits, EBC formed one 5-point composite waste characterization soil sample representing the historic fill layer (approximately 0 to 5 feet below grade) and one 5-point composite soil sample representing the clean native soil layer that required excavation for the new buildings' cellar and foundation (5 to 8 feet below grade). In addition, EBC collected grab samples from each interval for analysis of VOCs. The composite soil samples were submitted to York Analytical Laboratories, Inc. for analysis of SVOCs, TAL metals plus cyanide and hexavalent chromium, TCLP metals, pesticides, herbicides, PCBs, RCRA characteristics, extractable hydrocarbons (EPH) and paint filter. The laboratory results for the 5-point composite soil sample collected from the fill material layer (WC Fill Comp) reported a total lead concentration of 2,330 mg/kg and a TCLP lead concentration of 38.7 mg/kg.

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On February 12, 2015, soil samples were collected across the Site to delineate the areas that required handling/disposal as D008 Hazardous Lead soil/fill. As shown on figure attached to the soil disposal request letter prepared for Clean Earth of Philadelphia (Appendix F), the Site was divided into the following seven grid sections: Lot 5I, Lot 6I, Lot 5II, Lot 6II, Lot 5III, Lot 6III, and Lot 5IV. Within each of the seven grid sections, EBC collected four grab samples (a,b,c and d), and formed a 5-point composite waste characterization soil sample. The samples were submitted to Phoenix Environmental Laboratories, Inc. The grab samples were analyzed for lead and TCLP lead, and each of the 5-point composite waste characterization soil samples were analyzed for VOCs, SVOCs, metals, PCBs, RCRA characteristics, TOX and Full TCLP.

As shown on the figure attached to the soil disposal request letter prepared for Clean Earth of Philadelphia (Appendix F), historic fill material from Grid Sections Lot 5I, Lot 6I, Lot 5II, and Lot 6II had a TCLP lead concentration greater than 5.0 mg/L and was therefore characterized as D008 Hazardous Lead soil/fill. Soil/fill present within Grid Sections Lot 5III and Lot 5IV was characterized as nonhazardous historic fill material.

The laboratory results of the waste characterization samples and delineation samples, profile form, and a formal letter describing the sampling process and material type, was forwarded to Clean Earth, Inc. to obtain soil disposal approval of the D008 Hazardous Lead Soil at Clean Earth of North Jersey (CENJ) and the nonhazardous historic fill material at Clean Earth of Philadelphia (CEP). A copy of the formal soil disposal request letter with the waste characterization sampling plan and laboratory results is attached in Appendix F. Based upon the laboratory results of the waste characterization soil samples, CENJ accepted the D008 Hazardous Lead soil/fill, and CEP accepted the nonhazardous historic fill material. A copy of each of the CENJ and CEP disposal acceptance letters are attached in Appendix G.

In order to approve soil disposal of clean native soil that required excavation from 5 to approximately 9 feet below grade, P Park NJ, LLC requested the collection and laboratory analysis of endpoint soil samples for lead following removal of the D008 Hazardous Lead soil/fill. EBC field screened the remaining native soil for evidence of fill material to ensure complete removal of the soil/fill. On April 21, 2015, EBC collected four endpoint soil samples from the first 50 feet of Lot 5 from the top of the native soil layer (approximately 5 ft below

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grade). An additional four endpoint soil samples were collected on April 29, 2015, from across the first 50 feet of Lot 6. Each of the eight endpoint samples collected after the D008 Hazardous Lead soil/fill was removed was submitted to Phoenix Environmental Laboratories, Inc. for laboratory analysis of lead. Lead was detected in each of the eight endpoint samples at a concentration below NYSDEC Part 375.6 Unrestricted Use SCOs. The laboratory results of the waste characterization samples, delineation samples, and endpoint samples, as well as a profile form, and a formal letter describing the sampling process and material type, was also forwarded to the beneficial use site Prospect Park (P Park NJ, LLC) to obtain soil disposal approval of the clean native layer. A copy of the formal soil disposal request letter with the waste characterization sampling plan and laboratory results, delineation sampling plan and results, and endpoint sampling plan and results is attached in Appendix F. A copy of the soil disposal acceptance letter issued by P Park, NJ, LLC for the native soil is attached in Appendix G.

4.3.2 Excavation/Removal of D008 Hazardous Lead Soil

Excavation of the top 5 feet of D008 Hazardous Lead soil/fill material across the first 50 feet of the Site began on March 25, 2015, and was completed by April 2, 2015. A total of approximately 1,352.03 tons of D008 Hazardous Lead fill/soil was transported to CENJ. Photographs of the D008 Hazardous Lead soil/fill excavation are included in Appendix C. Figure 5 depicts the areas and depths of D008 Hazardous Lead fill/soil excavation.

4.3.3 Excavation/Removal of Non-Hazardous Historic Fill Material

Following removal of the D008 Hazardous Lead soil/fill from the front 50 feet of the Site down to the native soil layer, non-hazardous historic fill material was excavated from across the remainder of the Site and loaded into trucks for transport to Clean Earth of Philadelphia. From April 16, 2015, to May 4, 2015, a total of 536.84 tons of soil/fill was transported to Clean Earth of Philadelphia. Photographs of the nonhazardous soil/fill excavation are included in Appendix C. Figure 5 depicts the areas and depths of excavation performed at the Site.

4.3.4 Excavation/Removal of Native Soil

Following removal of all historic fill material, clean native soil was excavated across all of Lot 6 and the first 80 feet of Lot 5 to a depth of 9 feet below grade for construction of the new

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buildings' mat slab. Photographs of final excavation grade are included in Appendix C. Figure 5 depicts the areas and depths of excavation performed at the Site.

After excavation of the Site was completed, EBC collected four endpoint soil samples. The approximate collection location of the endpoint soil samples is shown on Figure 6.

4.3.5 End Point Sample Results

Track 4 – Site Specific Use Soil Cleanup Objectives were established for the Site. Following removal of all of the historic fill material at the Site, and additional excavation and off-Site disposal of clean native soil for construction of the new building, EBC collected four endpoint soil samples (EP1 through EP4). Endpoint soil samples EP1, EP3 and EP4 were collected at a depth of approximately 9 feet below grade. Endpoint soil sample EP2 was collected at a depth of approximately 4 feet below grade from the rear courtyard behind the new building on Lot 5. The approximate location of each of the endpoint soil samples is shown on Figure 6. Dedicated disposable sampling equipment was utilized to collect each endpoint sample, eliminating the need for field equipment (rinsate) blanks.

The endpoint soil samples were appropriately packaged, placed in a cooler and picked up by laboratory courier for transport to the analytical laboratory. The samples were containerized in laboratory provided glassware and shipped in plastic coolers preserved utilizing ice or "cold-paks" to maintain a temperature of 4^{o}C.

Endpoint samples EP1 through EP4 were submitted to Phoenix Environmental Laboratories, Inc. located at 587 East Middle Turnpike, in Manchester, CT 06040 (NYS ELAP Certification No. 11301) for laboratory analysis utilizing the following methodology:

- Volatile organic compounds by EPA Method 8260;
- Semi-volatile organic compounds by EPA Method 8270;
- Pesticides/PCBs by EPA Methods 8081/8082; and
- Target Analyte List metals by EPA Method 6010 and 7471.

A copy of each of the laboratory report for the endpoint soil samples is attached in Appendix K. A tabular summary of the laboratory results of the deep soil sample collected during the

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Remedial Investigation from the rear courtyard behind the new building on Lot 5 (5-7 feet below grade) and the four endpoint soil samples collected after remedial excavation was completed are included on Table 1 (VOCs), Table 2 (SVOCs), Table 3 (Pesticides/PCBs) and Table 4 (metals).

As shown on Tables 1 through 4, no VOCs, SVOCs, pesticides, PCBs or metals were detected above Unrestricted Use SCOs within the deep soil sample collected during the Remedial Investigation from the rear courtyard behind the new building on Lot 5 (5-7 feet below grade) or the four endpoint soil samples collected after excavation of the Site for the new building. Based on the results of the endpoint soil sampling, Track 1 Unrestricted Use SCOs were achieved.

4.4 Materials Disposal

In accordance with Section 3010 of Subtitle C of Resource Conservation and Recovery Act (RCRA), EPA was notified of hazardous waste generation (D008 hazardous lead soil) by submitting Notification of RCRA Subtitle C Activity, EPA Form 8700-12. EPA assigned Generator ID number NYR000217059. The laboratory results, profile form with the EPA Generator ID Number and a formal letter describing the sampling process and material type, was forwarded to Clean Earth, Inc. to obtain soil disposal approval for the D008 hazardous lead soil at Clean Earth of North Jersey. Clean Earth of North Jersey is located at 115 Jacobus Avenue, Kearny, NJ 07032. The facility is a RCRA Part B permitted transfer, storage and disposal facility (TSDF) that accepts hazardous and industrial waste under New Jersey Permit No. NJD991291105.

From March 25, 2015, to April 2, 2015, a total of approximately 1,352.03 tons of D008 Hazardous Lead fill/soil was excavated from across the first 50 feet of Lots 5 and 6 to a depth of approximately 5 feet below grade and transported to Clean Earth of North Jersey. Copies of each of the Uniform Hazardous Waste Manifests and associated scale tickets are included in Appendix H. The Clean Earth of North Jersey Profile Report included in Appendix H summarizes the shipping date, manifest number, trucking company name and truck number, and tonnage for each truck load.

From April 16, 2015, to May 4, 2015, a total of approximately 536.84 tons of non-hazardous historic fill material/soil was excavated and transported on a non-hazardous manifest to Clean

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Earth of Philadelphia. Clean Earth of Philadelphia (CEP) is located at 3201 South 61st Street, Philadelphia, Pennsylvania 19153. The CEP facility is a thermal desorption and physical treatment facility operating under PADEP Residual Waste Permit 301220. Copies of each of the non-hazardous manifests and associated scale tickets are included in Appendix I. The Clean Earth of Philadelphia Profile Report included in Appendix I summarizes the shipping date, scale ticket number, manifest number, trucking company name and truck number, and tonnage for each truck load.

From June 19, 2015, to June 23, 2015, an additional 570.27 tons of native soil was excavated and loaded into 10-wheel dump trucks for transport to Prospect Park, located at 100 Planten Avenue, Prospect Park, New Jersey. Prospect Park is a former stone quarry that is undergoing reclamation in accordance with the Material Handling Plan. Copies of each of the non-hazardous manifests and associated scale tickets are included in Appendix J. The P Park NJ, LLC Profile Report included in Appendix J summarizes the shipping date, license plate number, and tonnage for each truck load.

The tonnage and destination of material removed and disposed off-Site is presented below:

Disposal Quantities and Disposal Facilities

Destination	Type of Material	Quantity
Clean Earth of North Jersey 105 Jacobus Avenue, Kearny, NJ 07032	D008 Hazardous Lead Soil/Fill	1,352.03 tons
Clean Earth of Philadelphia 3201 South 61st Street, Philadelphia, PA 19153	Non-Hazardous Fill Material	536.84 tons
Prospect Park 100 Planten Avenue, Prospect Park, NJ	Native Soil	570.27 tons

4.5 Backfill Import

On June 25, 2015, 2 truck loads (approximately 20 cubic yards) of 3/4" virgin mined blue stone was imported from Transit Mix Corp. located at 60 Morgan Avenue, Brooklyn, NY 11237 for use below the mat slab. The source of the blue stone was Rawson Materials facility located at

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349 Norwich Road, Plainfield, Connecticut. A representative sieve analysis report, and a copy of facility receipt for both truck loads is attached in Appendix L.

No other backfill was imported to the Site. The volume/tonnage of backfill materials imported to the Site, and the facility name/address from which the backfill was obtained is presented below:

Backfill Quantities and Sources

Facility	Type of Material	Quantity
Transit Mix Corp. 60 Morgan Avenue, Brooklyn, NY 11237 (sourced from Lafarge in Ravena, NY)	3/4" blue stone	~20 cubic yards

4.6 Demarcation

The Site achieved a Track 1 cleanup for soil, therefore a demarcation barrier was not needed.

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5.0 ENGINEERING CONTROLS

Unrestricted Use Remedial Action was achieved and Engineering Controls are not required. However, as part of construction, several protective systems were installed. These are:

(1) Composite Cover System

(2) Waterproofing/Vapor Barrier System

Composite Cover System

As part of development, exposure to residual soil/fill is prevented by an engineered Composite Cover System that has been built on the Site. This Composite Cover System is comprised of the following:

- A 36 to 40 inch thick concrete mat slab underlain by a waterproofing membrane (Grace Preprufe 300R), a 2 inch thick concrete rat slab, and a compacted layer of 2 inch layer of ¾" virgin mined lime blue stone installed over native soil.
- A 4 inch thick concrete slab poured over native soil in the rear courtyard behind the new building on Lot 5.

Figure 7 depicts the design for each remedial cover type used on this Site. Photographs of construction of the Composite Cover System are included in Appendix C. The composite cover system was installed by foundation contractor, Casa Concrete, Inc.

Waterproofing Membrane/Vapor Barrier

As part of development, future exposure to soil vapor is prevented by a Vapor Barrier System that has been built on the Site. Migration of soil vapor from potential off-Site sources is mitigated with a combination of building slab and vapor barrier/waterproofing membrane. The waterproofing membrane installed below the building and parking area slabs, below/around the elevator pit, and along the sidewalls consists of Grace Preprufe® 300R. Grace Preprufe® 300R is a 1.2 mm (0.046 in) thick HDPE film with a pressure sensitive adhesive that bonds to the poured concrete. All seams, penetrations, and repairs were sealed utilizing the tape method, in accordance with to the manufacturer's installation instructions. Manufacturer specification sheets for Grace Preprufe® 300R are included as Appendix M. Photos of the waterproofing membrane being installed are included in Appendix C and the approximate layout is shown on Figure 8. The waterproofing membrane was installed by Drip Drop Waterproofing Inc.

EBC
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6.0 INSTITUTIONAL CONTROLS

Unrestricted Use Track 1 Remedial Action was achieved and Institutional Controls are not required.

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7.0 SITE MANAGEMENT PLAN

Unrestricted Use Track 1 Residential Remedial Action was achieved and Site Management is not required.

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TABLES

TABLE 1
170-174 West Street,
Brooklyn, New York
Remedial Investigation and Endpoint Soil Sample Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	RI Results		Endpoint Soil Sample Results									
			B3		EP-1		EP-2		EP-3		EP-4		Duplicate (EP-2)	
			1/20/2014		6/19/2015		6/19/2015		6/19/2015		6/19/2015		6/19/2015	
			(5-7')		(8 ft)		(8 ft)		(8 ft)		(8 ft)		(8 ft)	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachlorothane			< 6.1	6.1	< 53	53	< 14	14	< 12	12	< 11	11	< 15	15
1,1,1-Trichloroethane	680	100,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,1,2,2-Tetrachloroethane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,1,2-Trichloroethane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,1-Dichloroethane	270	26,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,1-Dichloroethene	330	100,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,1-Dichloropropene			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,2,3-Trichlorobenzene			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,2,3-Trichloropropane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,2,4-Trichlorobenzene			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,2,4-Trimethylbenzene	3,600	52,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,2-Dibromo-3-chloropropane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,2-Dibromoethane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,2-Dichlorobenzene	1,100	100,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,2-Dichloroethane	20	3,100	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,2-Dichloropropane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,3,5-Trimethylbenzene	8,400	52,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,3-Dichlorobenzene	2,400	4,900	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,3-Dichloropropane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
1,4-Dichlorobenzene	1,800	13,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
2,2-Dichloropropane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
2-Chlorotoluene			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
2-Hexanone (Methyl Butyl Ketone)			< 31	31	< 66	66	< 71	71	< 60	60	< 55	55	< 74	74
2-Isopropyltoluene			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
4-Chlorotoluene			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
4-Methyl-2-Pentanone			< 31	31	< 66	66	< 71	71	< 60	60	< 55	55	< 74	74
Acetone	50	100,000	< 50	50	< 50	50	< 50	50	< 50	50	< 50	50	< 50	50
Acrylonitrile			< 12	12	< 26	26	< 29	29	< 24	24	< 22	22	< 30	30
Benzene	60	4,800	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Bromobenzene			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Bromochloromethane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Bromodichloromethane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Bromoform			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Bromomethane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Carbon Disulfide			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Carbon tetrachloride	760	2,400	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Chlorobenzene	1,100	100,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Chloroethane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Chloroform	370	49,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Chloromethane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
cis-1,2-Dichloroethene	250	100,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
cis-1,3-Dichloropropene			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Dibromochloromethane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Dibromomethane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Dichlorodifluoromethane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Ethylbenzene	1,000	41,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Hexachlorobutadiene			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Isopropylbenzene			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
m&p-Xylenes	260	100,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 37	37	< 79	79	< 86	86	< 72	72	< 66	66	< 89	89
Methyl t-butyl ether (MTBE)	930	100,000	< 12	12	< 26	26	< 29	29	< 24	24	< 22	22	< 30	30
Methylene chloride	50	100,000	**1.2**	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Naphthalene	12,000	100,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
n-Butylbenzene	12,000	100,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
n-Propylbenzene	3,900	100,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
o-Xylene	260	100,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
p-Isopropyltoluene			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
sec-Butylbenzene	11,000	100,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Styrene			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
tert-Butylbenzene	5,900	100,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Tetrachloroethene	1,300	19,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Tetrahydrofuran (THF)			< 12	12	< 26	26	< 29	29	< 24	24	< 22	22	< 30	30
Toluene	700	100,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
trans-1,2-Dichloroethene	190	100,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
trans-1,3-Dichloropropene			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
trabs-1,4-dichloro-2-butene			< 12	12	< 26	26	< 29	29	< 24	24	< 22	22	< 30	30
Trichloroethene	470	21,000	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Trichlorofluoromethane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Trichlorotrifluoroethane			< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15
Vinyl Chloride	20	900	< 6.1	6.1	< 13	13	< 14	14	< 12	12	< 11	11	< 15	15

Notes:

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

ND - Not-detected

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 2
170-174 West Street,
Brooklyn, New York
Remedial Investigation and Endpoint Soil Sample Analytical Results
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	RI Results		Endpoint Soil Sample Results									
			B3		EP-1		EP-2		EP-3		EP-4		Duplicate (EP-2)	
			1/20/2014		6/19/2015		6/19/2015		6/19/2015		6/19/2015		6/19/2015	
			(5-7')		(8 ft)		(8 ft)		(8 ft)		(8 ft)		(8 ft)	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
1,2,4-Trichlorobenzene			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
1,2-Dichlorobenzene			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
1,2-Diphenylhydrazine			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
1,3-Dichlorobenzene			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
1,4-Dichlorobenzene			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
2,4,5-Trichlorophenol			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
2,4,6-Trichlorophenol			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
2,4-Dichlorophenol			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
2,4-Dimethylphenol			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
2,4-Dinitrophenol			< 2000	2,000	< 2000	2,000	< 2200	2,200	< 2000	2,000	< 1900	1,900	< 2300	2,300
2,4-Dinitrotoluene			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
2,6-Dinitrotoluene			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
2-Chloronaphthalene			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
2-Chlorophenol			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
2-Methylnaphthalene			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
2-Methylphenol (o-cresol)	330	100,000	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
2-Nitroaniline			< 2000	2,000	< 2000	2,000	< 2200	2,200	< 2000	2,000	< 1900	1,900	< 2300	2,300
2-Nitrophenol			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
3&4-Methylphenol (m&p-cresol)			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
3,3'-Dichlorobenzidine			< 810	810	< 800	800	< 860	860	< 800	800	< 760	760	< 900	900
3-Nitroaniline			< 2000	2,000	< 2000	2,000	< 2200	2,200	< 2000	2,000	< 1900	1,900	< 2300	2,300
4,6-Dinitro-2-methylphenol			< 2000	2,000	< 2000	2,000	< 2200	2,200	< 2000	2,000	< 1900	1,900	< 2300	2,300
4-Bromophenyl phenyl ether			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
4-Chloro-3-methylphenol			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
4-Chloroaniline			< 810	810	< 800	800	< 860	860	< 800	800	< 760	760	< 900	900
4-Chlorophenyl phenyl ether			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
4-Nitroaniline			< 2000	2,000	< 2000	2,000	< 2200	2,200	< 2000	2,000	< 1900	1,900	< 2300	2,300
4-Nitrophenol			< 2000	2,000	< 2000	2,000	< 2200	2,200	< 2000	2,000	< 1900	1,900	< 2300	2,300
Acenaphthene	20,000	100,000	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Acenaphthylene	100,000	100,000	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Acetophenone			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Aniline			< 2000	2,000	< 2000	2,000	< 2200	2,200	< 2000	2,000	< 1900	1,900	< 2300	2,300
Anthracene	100,000	100,000	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Benz(a)anthracene	1,000	1,000	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Benzidine			< 810	810	< 800	800	< 860	860	< 800	800	< 760	760	< 900	900
Benzo(a)pyrene	1,000	1,000	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Benzo(b)fluoranthene	1,000	1,000	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Benzo(ghi)perylene	100,000	100,000	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Benzo(k)fluoranthene	800	3,900	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Benzoic acid			< 2000	2,000	< 2000	2,000	< 2200	2,200	< 2000	2,000	< 1900	1,900	< 2300	2,300
Benzyl butyl phthalate			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Bis(2-chloroethoxy)methane			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Bis(2-chloroethyl)ether			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Bis(2-chloroisopropyl)ether			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Bis(2-ethylhexyl)phthalate			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Carbazole			< 2000	2,000	< 2000	2,000	< 2200	2,200	< 2000	2,000	< 1900	1,900	< 2300	2,300
Chrysene	1,000	3,900	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Dibenz(a,h)anthracene	330	330	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Dibenzofuran	7,000	59,000	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Diethyl phthalate			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Dimethylphthalate			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Di-n-butylphthalate			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Di-n-octylphthalate			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Fluoranthene	100,000	100,000	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Fluorene	30,000	100,000	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Hexachlorobenzene			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Hexachlorobutadiene			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Hexachlorocyclopentadiene			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Hexachloroethane			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Indeno(1,2,3-cd)pyrene	500	500	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Isophorone			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Naphthalene	12,000	100,000	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Nitrobenzene			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
N-Nitrosodimethylamine			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
N-Nitrosodi-n-propylamine			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
N-Nitrosodiphenylamine			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Pentachloronitrobenzene			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Pentachlorophenol	800	6,700	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Phenanthrene	100,000	100,000	< 280	280	< 280	280	**190**	300	< 280	280	< 270	270	< 320	320
Phenol	330	100,000	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Pyrene	100,000	100,000	< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320
Pyridine			< 280	280	< 280	280	< 300	300	< 280	280	< 270	270	< 320	320

Notes:

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

ND - Not-detected

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 3
170-174 West Street,
Brooklyn, New York
Remedial Investigation and Endpoint Soil Sample Analytical Results
Pesticides PCBs

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	RI Results		Endpoint Soil Sample Results									
			B3		EP-1		EP-2		EP-3		EP-4		Duplicate (EP-2)	
			1/20/2014		6/19/2015		6/19/2015		6/19/2015		6/19/2015		6/19/2015	
			(5-7')		(8 ft)		(8 ft)		(8 ft)		(8 ft)		(8 ft)	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
4,4' -DDD	3.3	13,000	< 3.0	3	< 41	41	< 44	44	< 40	40	< 39	39	< 46	46
4,4' -DDE	3.3	8,900	< 3.0	3	< 41	41	< 44	44	< 40	40	< 39	39	< 46	46
4,4' -DDT	3.3	7,900	< 3.0	3	< 41	41	< 44	44	< 40	40	< 39	39	< 46	46
a-BHC	20	480	< 2.1	2.1	< 41	41	< 44	44	< 40	40	< 39	39	< 46	46
Alachlor			< 4.1	4.1	< 41	41	< 44	44	< 40	40	< 39	39	< 46	46
Aldrin	5	97	< 2.1	2.1	< 41	41	< 44	44	< 40	40	< 39	39	< 46	46
b-BHC	36	360	< 2.1	2.1	< 41	41	< 44	44	< 40	40	< 39	39	< 46	46
Chlordane	94	4,200	< 25	25	< 41	41	< 44	44	< 40	40	< 39	39	< 46	46
d-BHC	40	100,000	< 2.1	2.1	< 41	41	< 44	44	< 40	40	< 39	39	< 46	46
Dieldrin	5	200	< 2.1	2.1	< 2.4	2.4	< 2.6	2.6	< 2.4	2.4	< 2.3	2.3	< 2.8	2.8
Endosulfan I	2,400	24,000	< 4.1	4.1	< 2.4	2.4	< 2.6	2.6	< 2.4	2.4	< 2.3	2.3	< 2.8	2.8
Endosulfan II	2,400	24,000	< 4.1	4.1	< 2.4	2.4	< 2.6	2.6	< 2.4	2.4	< 2.3	2.3	< 2.8	2.8
Endosulfan sulfate	2,400	24,000	< 4.1	4.1	< 8.2	8.2	< 8.8	8.8	< 7.9	7.9	< 7.8	7.8	< 9.3	9.3
Endrin	14	11,000	< 2.1	2.1	< 4.1	4.1	< 4.4	4.4	< 4.0	4.0	< 3.9	3.9	< 4.6	4.6
Endrin aldehyde			< 4.1	4.1	< 4.1	4.1	< 4.4	4.4	< 4.0	4.0	< 3.9	3.9	< 4.6	4.6
Endrin ketone			< 2.1	2.1	< 8.2	8.2	< 8.8	8.8	< 7.9	7.9	< 7.8	7.8	< 9.3	9.3
g-BHC	100	280	< 2.1	2.1	< 41	41	< 44	44	< 40	40	< 39	39	< 46	46
Heptachlor	42	2,100	< 4.1	4.1	< 8.2	8.2	< 8.8	8.8	< 7.9	7.9	< 7.8	7.8	< 9.3	9.3
g-Chlordane			< 2.1	2.1	< 4.1	4.1	< 4.4	4.4	< 4.0	4.0	< 3.9	3.9	< 4.6	4.6
Heptachlor epoxide			< 2.1	2.1	< 8.2	8.2	< 8.8	8.8	< 7.9	7.9	< 7.8	7.8	< 9.3	9.3
Methoxychlor			< 8.3	8.3	< 8.2	8.2	< 8.8	8.8	< 7.9	7.9	< 7.8	7.8	< 9.3	9.3
Toxaphene			< 40	40	< 8.2	8.2	< 8.8	8.8	< 7.9	7.9	< 7.8	7.8	< 9.3	9.3
PCB-1016	100	1,000	< 41	41	< 8.2	8.2	< 8.8	8.8	< 7.9	7.9	< 7.8	7.8	< 9.3	9.3
PCB-1221	100	1,000	< 41	41	< 8.2	8.2	< 8.8	8.8	< 7.9	7.9	< 7.8	7.8	< 9.3	9.3
PCB-1232	100	1,000	< 41	41	< 8.2	8.2	< 8.8	8.8	< 7.9	7.9	< 7.8	7.8	< 9.3	9.3
PCB-1242	100	1,000	< 41	41	< 1.6	1.6	< 1.8	1.8	< 1.6	1.6	< 1.6	1.6	< 1.9	1.9
PCB-1248	100	1,000	< 41	41	< 4.1	4.1	< 4.4	4.4	< 4.0	4.0	< 3.9	3.9	< 4.6	4.6
PCB-1254	100	1,000	< 41	41	< 8.2	8.2	< 8.8	8.8	< 7.9	7.9	< 7.8	7.8	< 9.3	9.3
PCB-1260	100	1,000	< 41	41	< 8.2	8.2	< 8.8	8.8	< 7.9	7.9	< 7.8	7.8	< 9.3	9.3
PCB-1262	100	1,000	< 41	41	< 41	41	< 44	44	< 40	40	< 39	39	< 46	46
PCB-1268	100	1,000	< 41	41	< 160	160	< 180	180	< 160	160	< 160	160	< 190	190

Notes:

* Due to matrix interference from non target compounds in the sample an elevated RL was reported.

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

ND - Non-Detect

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 4
170-174 West Street,
Brooklyn, New York
Remedial Investigation and Endpoint Soil Sample Analytical Results
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	RI Results		Endpoint Soil Sample Results									
			B3		EP-1		EP-2		EP-3		EP-4		Duplicate (EP-2)	
			1/20/2014		6/19/2015		6/19/2015		6/19/2015		6/19/2015		6/19/2015	
			(5-7')		(8 ft)		(8 ft)		(8 ft)		(8 ft)		(8 ft)	
			mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			**10,800**	39	**6,130**	39	**10,900**	44	**6,590**	39	**7,310**	41	**10,500**	41
Antimony			< 1.9	1.9	< 1.9	1.9	< 2.2	2.2	< 1.9	1.9	< 2.1	2.1	< 2.0	2.0
Arsenic	13	16	**1**	0.8	**2.6**	0.8	**2.1**	0.9	**2.2**	0.8	**4**	0.8	**2.2**	0.8
Barium	350	400	**31.4**	0.8	**23.7**	0.8	**27**	0.9	**21.5**	0.8	**31.1**	0.8	**30.7**	0.8
Beryllium	7.2	72	**0.46**	0.31	**0.35**	0.31	**0.42**	0.36	**0.36**	0.31	**0.52**	0.33	**0.43**	0.33
Cadmium	2.5	4.3	< 0.39	0.39	< 0.39	0.39	< 0.44	0.44	< 0.39	0.39	**< 0.41**	0.41	< 0.41	0.41
Calcium			**823**	3.9	**617**	3.9	**966**	4.4	**896**	3.9	**1,080**	4.1	**1,100**	4.1
Chromium	30	180	**17.8**	0.39	**11.7**	0.39	**17.7**	0.44	**11.7**	0.39	**16.6**	0.41	**17.3**	0.41
Cobalt			**5.08**	0.39	**5.88**	0.39	**6.51**	0.44	**5.12**	0.39	**9.32**	0.41	**6.55**	0.41
Copper	50	270	**12.2**	0.39	**9.14**	0.39	**13.3**	0.44	**9.79**	0.39	**15.3**	0.41	**23.6**	0.41
Iron			**14,900**	39	**10,600**	39	**14,500**	44	**9,540**	3.9	**26,000**	41	**14,500**	41
Lead	63	400	**8.3**	0.8	**4.7**	0.8	**6.9**	0.9	**5**	0.8	**9.6**	0.8	**13.6**	0.8
Magnesium			**2,930**	39	**2,010**	3.9	**3,140**	4.4	**2,000**	3.9	**2,050**	4.1	**3,210**	4.1
Manganese	1,600	2,000	**121**	0.39	**88.4**	0.39	**125**	0.44	**71.3**	0.39	**233**	4.1	**136**	0.41
Mercury	0.18	0.81	< 0.09	0.09	< 0.03	0.03	< 0.04	0.04	< 0.03	0.03	< 0.03	0.03	**0.09**	0.03
Nickel	30	310	**18.1**	0.39	**10.4**	0.39	**19.5**	0.44	**10.2**	0.39	**14.7**	0.41	**19.4**	0.41
Potassium			**905**	8	**1,120**	8	**1,180**	9	**1,310**	8	**1,230**	8	**1,210**	8
Selenium	3.9	180	< 1.5	1.5	< 1.5	1.5	< 1.8	1.8	< 1.5	1.5	< 1.7	1.7	< 1.6	1.6
Silver	2	180	< 0.39	0.39	< 0.39	0.39	< 0.44	0.44	< 0.39	0.39	< 0.41	0.41	< 0.41	0.41
Sodium			**381**	8	**295**	8	**305**	9	**224**	8	**214**	8	**317**	8
Thallium			< 1.5	1.5	< 1.5	1.5	< 1.8	1.8	< 1.5	1.5	< 1.7	1.7	< 1.6	1.6
Vanadium			**18.4**	0.4	**18.1**	0.4	**17.1**	0.4	**16.5**	0.4	**31.1**	0.4	**17.8**	0.4
Zinc	109	10,000	**35.6**	0.8	**26.6**	0.8	**38.4**	0.9	**31.7**	0.8	**37.2**	0.8	**43.3**	0.8

Notes:

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

BRL - Below Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 5
Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water	Unrestricted Use
		Residential	Restricted-Residential	Commercial	Industrial			
METALS								
Arsenic	7440-38 -2	16f	16f	16f	16f	13f	16f	13 [c]
Barium	7440-39 -3	350f	400	400	10,000 d	433	820	350 [c]
Beryllium	7440-41 -7	14	72	590	2,700	10	47	7.2
Cadmium	7440-43 -9	2.5f	4.3	9.3	60	4	7.5	2.5 [c]
Chromium, hexavalent [h]	18540-29-9	22	110	400	800	1e	19	1 [b]
Chromium, trivalent[h]	16065-83-1	36	180	1,500	6,800	41	NS	30 [c]
Copper	7440-50 -8	270	270	270	10,000 d	50	1,720	50
Total Cyanide [h]		27	27	27	10,000 d	NS	40	27
Lead	7439-92 -1	400	400	1,000	3,900	63f	450	63 [c]
Manganese	7439-96 -5	2,000f	2,000f	10,000 d	10,000 d	1600f	2,000f	1600 [c]
Total Mercury		0.81j	0.81j	2.8j	5.7j	0.18f	0.73	0.18 [c]
Nickel	7440-02 -0	140	310	310	10,000 d	30	130	30
Selenium	7782-49 -2	36	180	1,500	6,800	3.9f	4f	3.9[c]
Silver	7440-22 -4	36	180	1,500	6,800	2	8.3	2
Zinc	7440-66 -6	2200	10,000 d	10,000 d	10,000 d	109f	2,480	109 [c]
PESTICIDES / PCBs								
2,4,5-TP Acid (Silvex)	93-72-1	58	100a	500b	1,000c	NS	3.8	3.8
4,4'-DDE	72-55-9	1.8	8.9	62	120	0.0033 e	17	0.0033 [b]
4,4'-DDT	50-29-3	1.7	7.9	47	94	0.0033 e	136	0.0033 [b]
4,4'-DDD	72-54-8	2.6	13	92	180	0.0033 e	14	0.0033 [b]
Aldrin	309-00-2	0.019	0.097	0.68	1.4	0.14	0.19	0.005 [c]
alpha-BHC	319-84-6	0.097	0.48	3.4	6.8	0.04g	0.02	0.02
beta-BHC	319-85-7	0.072	0.36	3	14	0.6	0.09	0.036
Chlordane (alpha)	5103-71 -9	0.91	4.2	24	47	1.3	2.9	0.094
delta-BHC	319-86-8	100a	100a	500b	1,000c	0.04g	0.25	0.04
Dibenzofuran	132-64-9	14	59	350	1,000c	NS	210	7
Dieldrin	60-57-1	0.039	0.2	1.4	2.8	0.006	0.1	0.005[c]
Endosulfan I	959-98-8	4.8i	24i	200i	920i	NS	102	2.4
Endosulfan II	33213-65-9	4.8i	24i	200i	920i	NS	102	2.4
Endosulfan sulfate	1031-07 -8	4.8i	24i	200i	920i	NS	1,000c	2.4
Endrin	72-20-8	2.2	11	89	410	0.014	0.06	0.014
Heptachlor	76-44-8	0.42	2.1	15	29	0.14	0.38	0.042
Lindane	58-89-9	0.28	1.3	9.2	23	6	0.1	0.1
Polychlorinated biphenyls	1336-36 -3	1	1	1	25	1	3.2	0.1
SEMI-VOLATILES								
Acenaphthene	83-32-9	100a	100a	500b	1,000c	20	98	20
Acenapthylene	208-96-8	100a	100a	500b	1,000c	NS	107	100 [a]
Anthracene	120-12-7	100a	100a	500b	1,000c	NS	1,000c	100 [a]
Benz(a)anthracene	56-55-3	1f	1f	5.6	11	NS	1f	1[c]
Benzo(a)pyrene	50-32-8	1f	1f	1f	1.1	2.6	22	1[c]
Benzo(b) fluoranthene	205-99-2	1f	1f	5.6	11	NS	1.7	1[c]
Benzo(g,h,i) perylene	191-24-2	100a	100a	500b	1,000c	NS	1,000c	100
Benzo(k) fluoranthene	207-08-9	1	3.9	56	110	NS	1.7	0.8 [c]
Chrysene	218-01-9	1f	3.9	56	110	NS	1f	1[c]
Dibenz(a,h) anthracene	53-70-3	0.33e	0.33e	0.56	1.1	NS	1,000c	0.33 [b]
Fluoranthene	206-44-0	100a	100a	500b	1,000c	NS	1,000c	100 [a]
Fluorene	86-73-7	100a	100a	500b	1,000c	30	386	30
Indeno(1,2,3-cd) pyrene	193-39-5	0.5f	0.5f	5.6	11	NS	8.2	0.5 [c]
m-Cresol	108-39-4	100a	100a	500b	1,000c	NS	0.33e	0.33 [b]
Naphthalene	91-20-3	100a	100a	500b	1,000c	NS	12	12
o-Cresol	95-48-7	100a	100a	500b	1,000c	NS	0.33e	0.33 [b]
p-Cresol	106-44-5	34	100a	500b	1,000c	NS	0.33e	0.33 [b]
Pentachlorophenol	87-86-5	2.4	6.7	6.7	55	0.8e	0.8e	0.8[b]
Phenanthrene	85-01-8	100a	100a	500b	1,000c	NS	1,000c	100
Phenol	108-95-2	100a	100a	500b	1,000c	30	0.33e	0.33[b]
Pyrene	129-00-0	100a	100a	500b	1,000c	NS	1,000c	100

TABLE 5
Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater	Unrestricted Use
		Residential	Restricted-Residential	Commercial	Industrial			
VOLATILES								
1,1,1-Trichloroethane	71-55-6	100a	100a	500b	1,000c	NS	0.68	0.68
1,1-Dichloroethane	75-34-3	19	26	240	480	NS	0.27	0.27
1,1-Dichloroethene	75-35-4	100a	100a	500b	1,000c	NS	0.33	0.33
1,2-Dichlorobenzene	95-50-1	100a	100a	500b	1,000c	NS	1.1	1.1
1,2-Dichloroethane	107-06-2	2.3	3.1	30	60	10	0.02f	0.02[c]
cis-1,2-Dichloroethene	156-59-2	59	100a	500b	1,000c	NS	0.25	0.25
trans-1,2-Dichloroethene	156-60-5	100a	100a	500b	1,000c	NS	0.19	0.19
1,3-Dichlorobenzene	541-73-1	17	49	280	560	NS	2.4	2.4
1,4-Dichlorobenzene	106-46-7	9.8	13	130	250	20	1.8	1.8
1,4-Dioxane	123-91-1	9.8	13	130	250	0.1e	0.1e	0.1[b]
Acetone	67-64-1	100a	100b	500b	1,000c	2.2	0.05	0.05
Benzene	71-43-2	2.9	4.8	44	89	70	0.06	0.06
Butylbenzene	104-51-8	100a	100a	500b	1,000c	NS	12	12
Carbon tetrachloride	56-23-5	1.4	2.4	22	44	NS	0.76	0.76
Chlorobenzene	108-90-7	100a	100a	500b	1,000c	40	1.1	1.1
Chloroform	67-66-3	10	49	350	700	12	0.37	0.37
Ethylbenzene	100-41-4	30	41	390	780	NS	1	1
Hexachlorobenzene	118-74-1	0.33e	1.2	6	12	NS	3.2	0.33[b]
Methyl ethyl ketone	78-93-3	100a	100a	500b	1,000c	100a	0.12	0.12
Methyl tert-butyl ether	1634-04 -4	62	100a	500b	1,000c	NS	0.93	0.93
Methylene chloride	75-09-2	51	100a	500b	1,000c	12	0.05	0.05
n-Propylbenzene	103-65-1	100a	100a	500b	1,000c	NS	3.9	3.9
sec-Butylbenzene	135-98-8	100a	100a	500b	1,000c	NS	11	11
tert-Butylbenzene	98-06-6	100a	100a	500b	1,000c	NS	5.9	5.9
Tetrachloroethene	127-18-4	5.5	19	150	300	2	1.3	1.3
Toluene	108-88-3	100a	100a	500b	1,000c	36	0.7	0.7
Trichloroethene	79-01-6	10	21	200	400	2	0.47	0.47
1,2,4-Trimethylbenzene	95-63-6	47	52	190	380	NS	3.6	3.6
1,3,5-Trimethylbenzene	108-67-8	47	52	190	380	NS	8.4	8.4
Vinyl chloride	75-01-4	0.21	0.9	13	27	NS	0.02	0.02
Xylene (mixed)	1330-20 -7	100a	100a	500b	1,000c	0.26	1.6	0.26

All soil cleanup objectives (SCOs) are in parts per million (ppm). NS=Not specified. See Technical Support Document (TSD). Footnotes

a The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm. See TSD section 9.3.

b The SCOs for commercial use were capped at a maximum value of 500 ppm. See TSD section 9.3.

c The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1000 ppm. See TSD section 9.3.

d The SCOs for metals were capped at a maximum value of 10,000 ppm. See TSD section 9.3.

e For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.

TABLE 6 - CENJ TRUCK LOG

PROFILE	COMMON_NAME	DESCRIPTION	INVENTORY_WEIGHT	DOCUMENT	STATE_MANIFEST	ARRIVED	TRUCK	TRANSPORTER
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	25.08	D30453	013917664JJK	26-Mar-15	7	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	27.4	D30458	013917668JJK	26-Mar-15	12	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	28.28	D30457	013917667JJK	26-Mar-15	21	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	24.01	D30455	013917666JJK	26-Mar-15	10	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	27	D30568	013917665JJK	26-Mar-15	6	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	26.62	D30459	013917669JJK	26-Mar-15	7	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	26.16	D30461	013917671JJK	26-Mar-15	10	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	27.2	D30460	013917670JJK	26-Mar-15	6	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	28.28	D30462	013917672JJK	26-Mar-15	21	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	27.02	D30463	013917673JJK	26-Mar-15	12	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	28.31	D30464	013917674JJK	31-Mar-15	9	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	25.62	D30465	013917675JJK	31-Mar-15	10	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	28.59	D30466	013917676JJK	31-Mar-15	6	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	27.25	D30467	013917677JJK	31-Mar-15	9	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	28.82	D30616	013917693JJK	1-Apr-15	6	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	28.57	D30619	013917695JJK	1-Apr-15	6	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	26.93	D30621	013917696JJK	1-Apr-15	6	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	26.3	D30623	013917697JJK	2-Apr-15	10	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	26.88	D30624	013917698JJK	2-Apr-15	19	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	26.72	D30627	013917699JJK	2-Apr-15	17	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	26.73	D30630	013917700JJK	2-Apr-15	10	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	26.87	D30628	013917701JJK	2-Apr-15	19	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	24.76	D30631	013917702JJK	2-Apr-15	17	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	25.88	D30664	013917703JJK	2-Apr-15	10	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	27.31	D30665	013917704JJK	2-Apr-15	17	J & D TRUCKING INC.
153080529	LEAD IMPACTED SOIL S6	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	26.7	D30666	013917705JJK	2-Apr-15	19	J & D TRUCKING INC.

CS_1

699.29

PROFILE	COMMON_NAME	DESCRIPTION	INVENTORY_WEIGHT	DOCUMENT	STATE_MANIFEST	ARRIVED	TRUCK	TRANSPORTER
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	29.35	D30438	013917649JJK	25-Mar-15	7	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	28.57	D30439	013917650JJK	25-Mar-15	1	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	23.57	D30440	013917651JJK	25-Mar-15	10	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	23.96	D30441	013917652JJK	25-Mar-15	10	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	24.05	D30442	013917653JJK	25-Mar-15	6	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	26.72	D30443	013917654JJK	25-Mar-15	7	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	27.6	D30444	013917655JJK	25-Mar-15	1	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	27.1	D30445	013917656JJK	25-Mar-15	5	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	26.08	D30446	013917657JJK	25-Mar-15	10	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	23.94	D30447	013917658JJK	25-Mar-15	6	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	25.71	D30448	013917659JJK	25-Mar-15	7	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	28.19	D30449	013917660JJK	25-Mar-15	1	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	25.86	D30450	013917661JJK	25-Mar-15	5	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	26.66	D30452	013917663JJK	25-Mar-15	6	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	25.66	D30451	013917662JJK	25-Mar-15	10	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	26.74	D30490	014568336JJK	26-Mar-15	7	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	25.38	D30491	014568337JJK	26-Mar-15	6	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	23.73	D30492	014568338JJK	26-Mar-15	10	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	27.83	D30493	014568339JJK	26-Mar-15	21	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	25.45	D30494	014568340JJK	26-Mar-15	12	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	25.52	D30495	014568341JJK	31-Mar-15	10	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	26.75	D30496	014568342JJK	31-Mar-15	6	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	25.88	D30497	014568343JJK	31-Mar-15	9	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	23.75	D30498	014568344JJK	31-Mar-15	10	J & D TRUCKING INC.
153080526	LEAD IMPACTED SOIL S5	RQ, NA3077, Hazardous waste, solid, n.o.s. (Lead), 9 , PGIII	28.69	D30499	014568345JJK	31-Mar-15	6	J & D TRUCKING INC.

25 **652.74**

Clean Earth of Philadelphia

TABLE 7

Ticket	Date	Truck	In / Out	Manifest	Customer	Gross	Tare	Net
153100093 - 170W LLC and 174W LLC					Global Job Number:			
700000219817	04/16/15	10SHI004	I	1074950	HML315-HML DEVELOPMENTS LLC	37.59	13.24	24.35
700000219828	04/16/15	10SHI021	I	1074949	HML315-HML DEVELOPMENTS LLC	38.54	13.34	25.20
700000219838	04/16/15	10RLS007	I	1074948	HML315-HML DEVELOPMENTS LLC	36.99	13.31	23.68
700000219854	04/16/15	10RLS068	I	1074951	HML315-HML DEVELOPMENTS LLC	37.30	13.47	23.83
700000219886	04/16/15	10SHI034	I	1074947	HML315-HML DEVELOPMENTS LLC	38.88	13.34	25.54
700000219970	04/16/15	10SHI022	I	1074945	HML315-HML DEVELOPMENTS LLC	40.65	13.85	26.80
700000219974	04/16/15	10SHI006	I	1074946	HML315-HML DEVELOPMENTS LLC	42.87	14.78	28.09
700000220262	04/16/15	10RLS068	I	1074944	HML315-HML DEVELOPMENTS LLC	42.05	13.47	28.58
700000220289	04/16/15	10RLS007	I	1074943	HML315-HML DEVELOPMENTS LLC	45.92	13.31	32.61
700000220348	04/17/15	10SHI021	I	1074941	HML315-HML DEVELOPMENTS LLC	49.07	13.34	35.73
700000220349	04/17/15	10SHI034	I	1074939	HML315-HML DEVELOPMENTS LLC	41.74	13.34	28.40
700000220351	04/17/15	10SHI004	I	1074942	HML315-HML DEVELOPMENTS LLC	42.98	13.24	29.74
700000226753	04/29/15	10SHI034	I	727005	HML315-HML DEVELOPMENTS LLC	38.15	13.34	24.81
700000226861	04/29/15	10SHI022	I	492227	HML315-HML DEVELOPMENTS LLC	40.99	13.76	27.23
700000226864	04/29/15	10SHI004	I	492226	HML315-HML DEVELOPMENTS LLC	40.50	13.24	27.26
700000227021	04/29/15	10SHI036	I	727004	HML315-HML DEVELOPMENTS LLC	41.39	14.48	26.91
700000227248	04/30/15	10SHI034	I	727003	HML315-HML DEVELOPMENTS LLC	42.70	13.34	29.36
700000229199	05/04/15	10CV057	I	1075863	HML315-HML DEVELOPMENTS LLC	35.54	14.25	21.29
700000229208	05/04/15	10CV056	I	944904	HML315-HML DEVELOPMENTS LLC	32.51	13.01	19.50
700000229639	05/04/15	10SHI016	I	995982	HML315-HML DEVELOPMENTS LLC	42.18	14.25	27.93
153100093 - 170W LLC and 174W LLC								
20 tickets								

Report Grand Totals

536.84

TABLE 8 - P Park NJ, LLC - Profile Report

							570.27			
DATE	CLEAN EARTH	VEHICLE ID	BOL #	GROSS WT.	TARE WT.	NET WT.	TONS	CEDTI Global Job #	CEDTI Fac Approval #	DESCRIPTION
6/19/15	Clean Earth	AP328G	46074	91,780	29,980	61,800	30.90	136237	153030024	170W LLC and 174W LLC 15-070
6/19/15	Clean Earth	AR903C	46075	87,200	29,560	57,640	28.82	136237	153030024	170W LLC and 174W LLC 15-070
6/19/15	Clean Earth	AM320V	46077	84,060	29,780	54,280	27.14	136237	153030024	170W LLC and 174W LLC 15-070
6/19/15	Clean Earth	AN719Y	46078	82,560	28,960	53,600	26.80	136237	153030024	170W LLC and 174W LLC 15-070
6/19/15	Clean Earth	AP865P	46079	92,040	30,600	61,440	30.72	136237	153030024	170W LLC and 174W LLC 15-070
6/19/15	Clean Earth	AP874P	46080	98,020	28,420	69,600	34.80	136237	153030024	170W LLC and 174W LLC 15-070
6/19/15	Clean Earth	AN869W	46086	98,360	30,060	68,300	34.15	136237	153030024	170W LLC and 174W LLC 15-070
6/19/15	Clean Earth	AN843J	46087	95,480	29,300	66,180	33.09	136237	153030024	170W LLC and 174W LLC 15-070
6/19/15	Clean Earth	AS530D	46090	98,120	29,020	69,100	34.55	136237	153030024	170W LLC and 174W LLC 15-070
6/19/15	Clean Earth	AN869W	46099	87,600	29,900	57,700	28.85	136237	153030024	170W LLC and 174W LLC 15-070
6/19/15	Clean Earth	AN843J	46102	84,620	29,140	55,480	27.74	136237	153030024	170W LLC and 174W LLC 15-070
6/19/15	Clean Earth	AS530D	46106	92,540	28,880	63,660	31.83	136237	153030024	170W LLC and 174W LLC 15-070
6/23/15	Clean Earth	AS228J	46171	95,700	26,400	69,300	34.65	136237	153030024	170W LLC and 174W LLC 15-070
6/23/15	Clean Earth	AS217M	46178	104,400	30,020	74,380	37.19	136237	153030024	170W LLC and 174W LLC 15-070
6/23/15	Clean Earth	AS445M	46183	99,080	30,100	68,980	34.49	136237	153030024	170W LLC and 174W LLC 15-070
6/23/15	Clean Earth	AS228J	46242	93,800	26,180	67,620	33.81	136237	153030024	170W LLC and 174W LLC 15-070
6/23/15	Clean Earth	AS445M	46245	88,640	29,980	58,660	29.33	136237	153030024	170W LLC and 174W LLC 15-070
6/23/15	Clean Earth	AS217M	46257	92,580	29,760	62,820	31.41	136237	153030024	170W LLC and 174W LLC 15-070

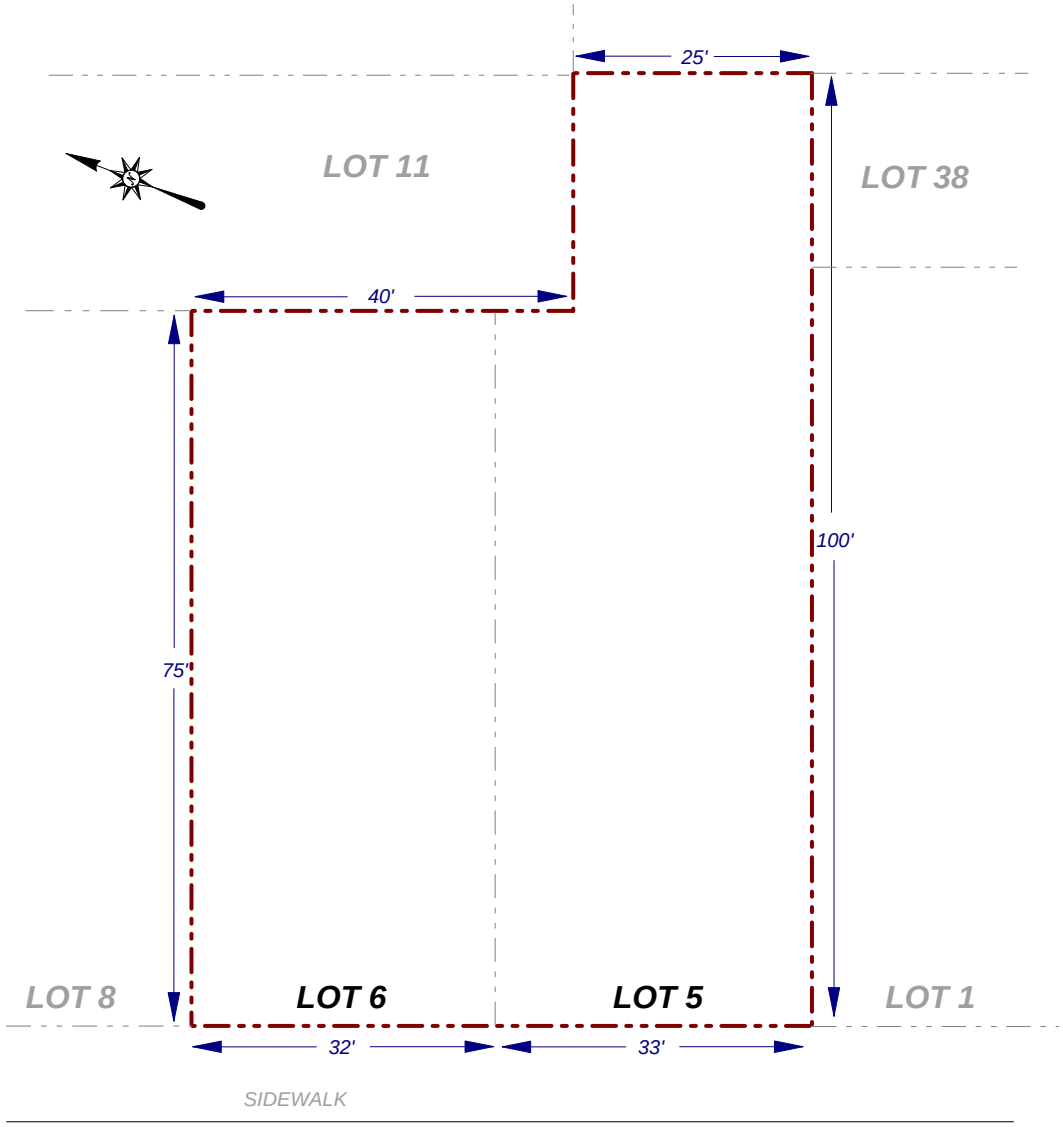
FIGURES

USGS Brooklyn Quadrangle 1995, Contour Interval = 10 feet

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS
Phone 631.504.6000
Fax 631.924.2870

170-174 WEST STREET
BROOKLYN, NY

FIGURE 1 SITE LOCATION MAP



KEY:

Property Boundary

SCALE:

0 10 20

1 Inch = 20 feet

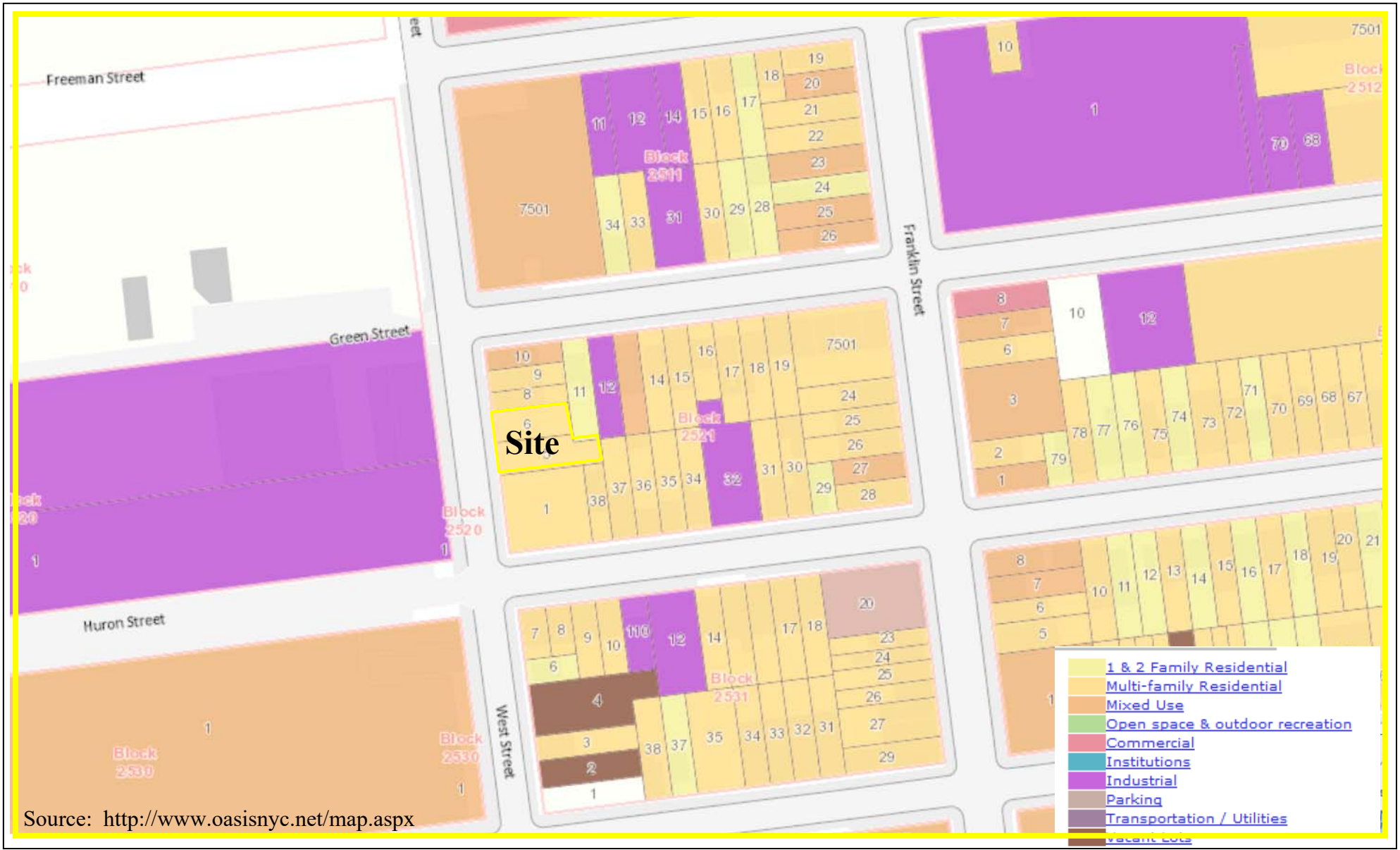
EBC
Environmental Business Consultants
Phone 631.504.6000
Fax 631. 924 .2870

Figure No. 2

Site Name: Redevelopment Project

Site Address: 170-174 West Street, Brooklyn, NY

Drawing Title: Site Boundary Map

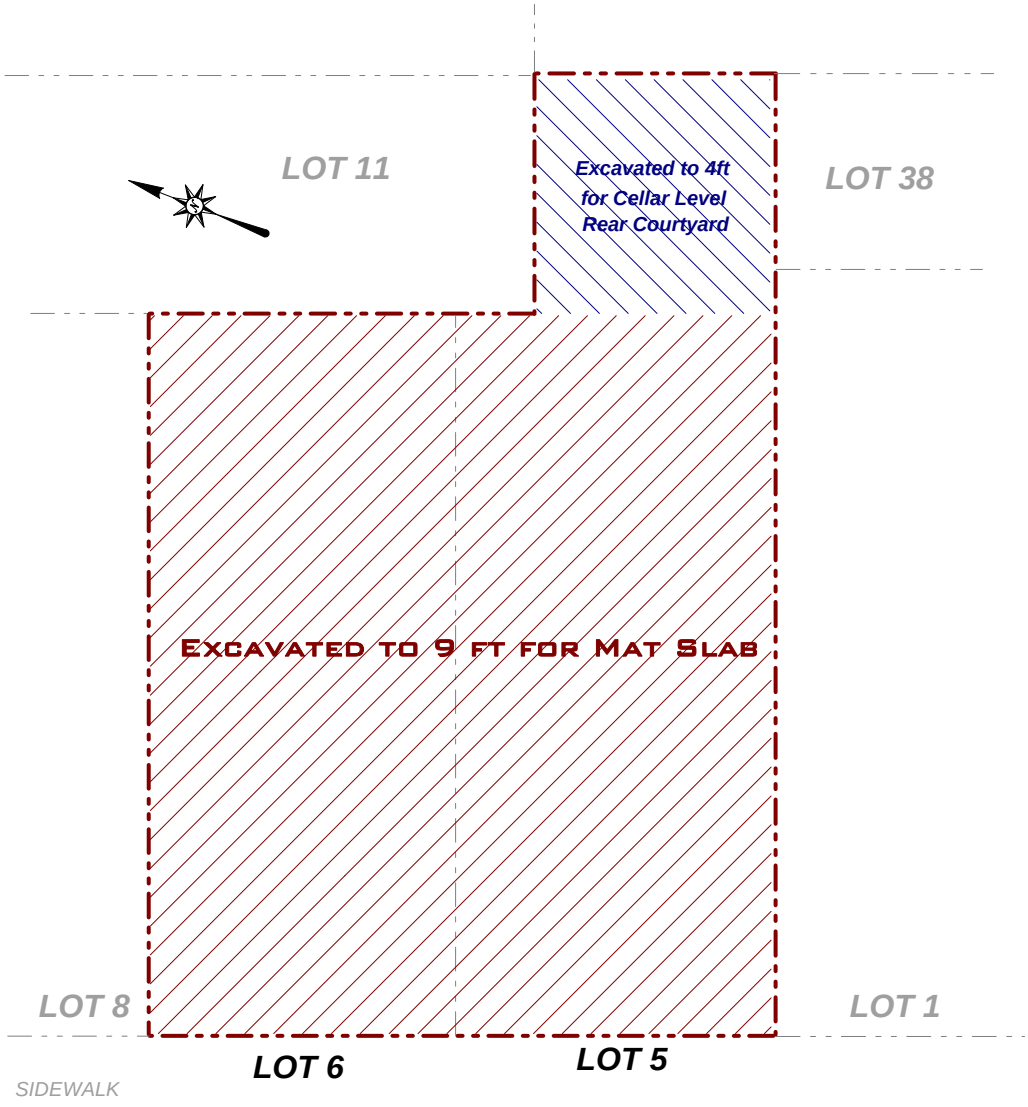


Source: http://www.oasisnyc.net/map.aspx

FIGURE 4
SURROUNDING LAND USE MAP

170-174 WEST STREET, BROOKLYN, NY

EBC
ENVIRONMENTAL BUSINESSS CONSULTANTS
1808 MIDDLE COUNTRY ROAD, RIDGE, NEW YORK 11961
PHONE: (631) 504-6000 FAX: (631) 924-2870



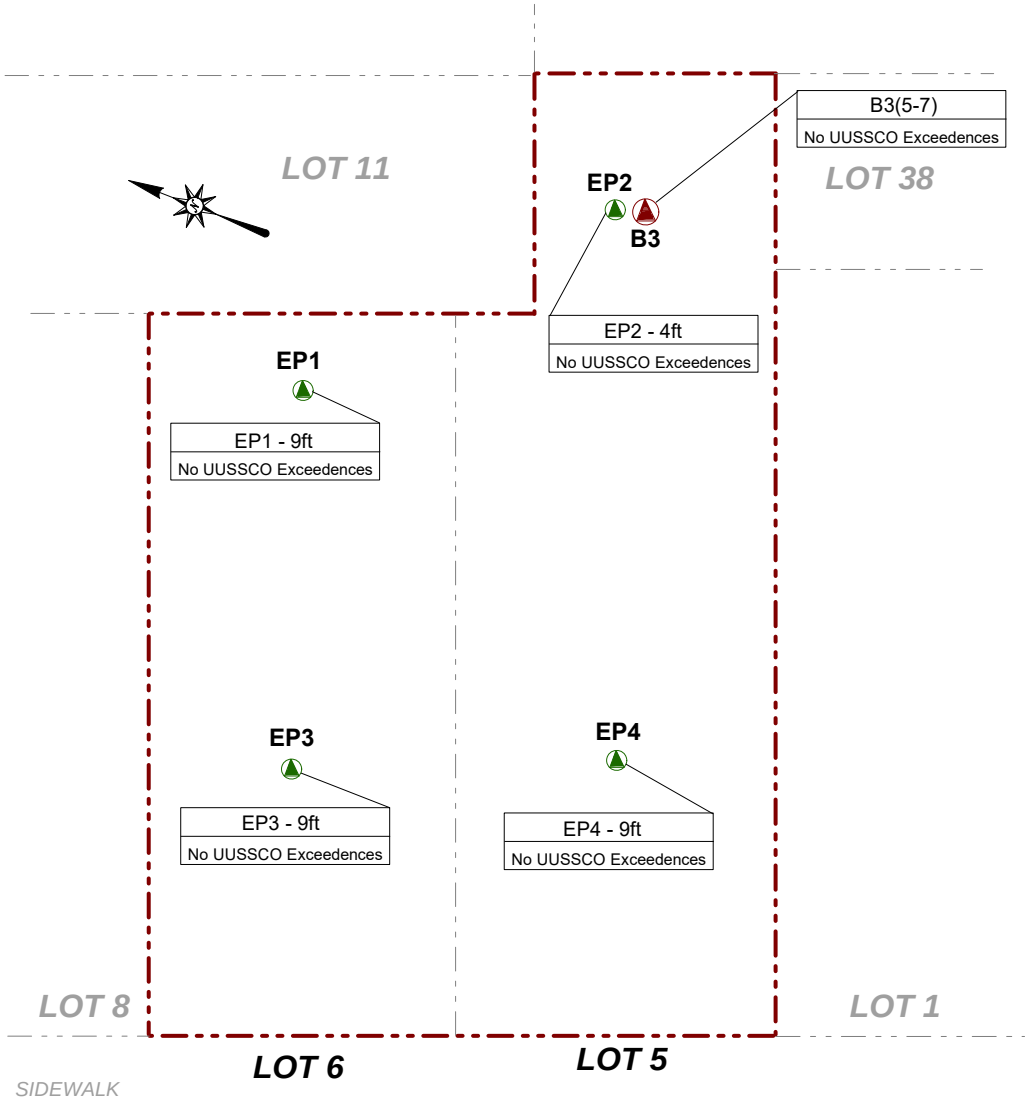
EBC
ENVIRONMENTAL BUSINESS CONSULTANTS
Phone 631.504.6000
Fax 631. 924 .2870

Figure No. 5

Site Name: REDEVELOPMENT PROJECT

Site Address: 170-174 WEST STREET, BROOKLYN, NY

Drawing Title: EXCAVATION DIAGRAM



KEY:

- Property Boundary
- RI Soil Boring Location
- Endpoint Soil Sample Location

SCALE:

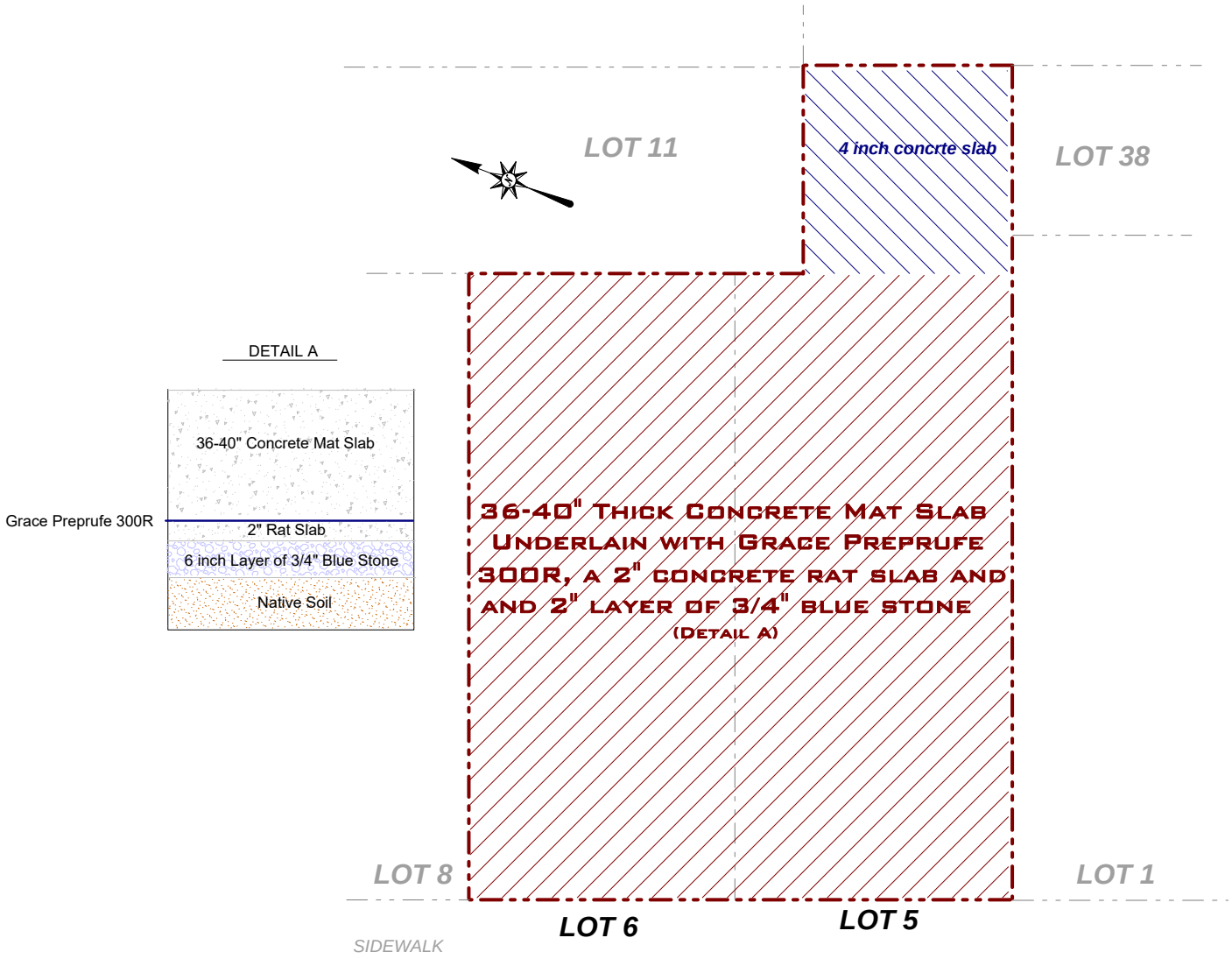
0 10 20

1 Inch = 20 feet

EBC
Environmental Business Consultants
Phone 631.504.6000
Fax 631. 924 .2870

Figure No. 6

Site Name: Redevelopment Project
Site Address: 170-174 West Street, Brooklyn, NY
Drawing Title: Endpoint Sampling Diagram



KEY:

Property Boundary

SCALE:

0 10 20

1 Inch = 20 feet

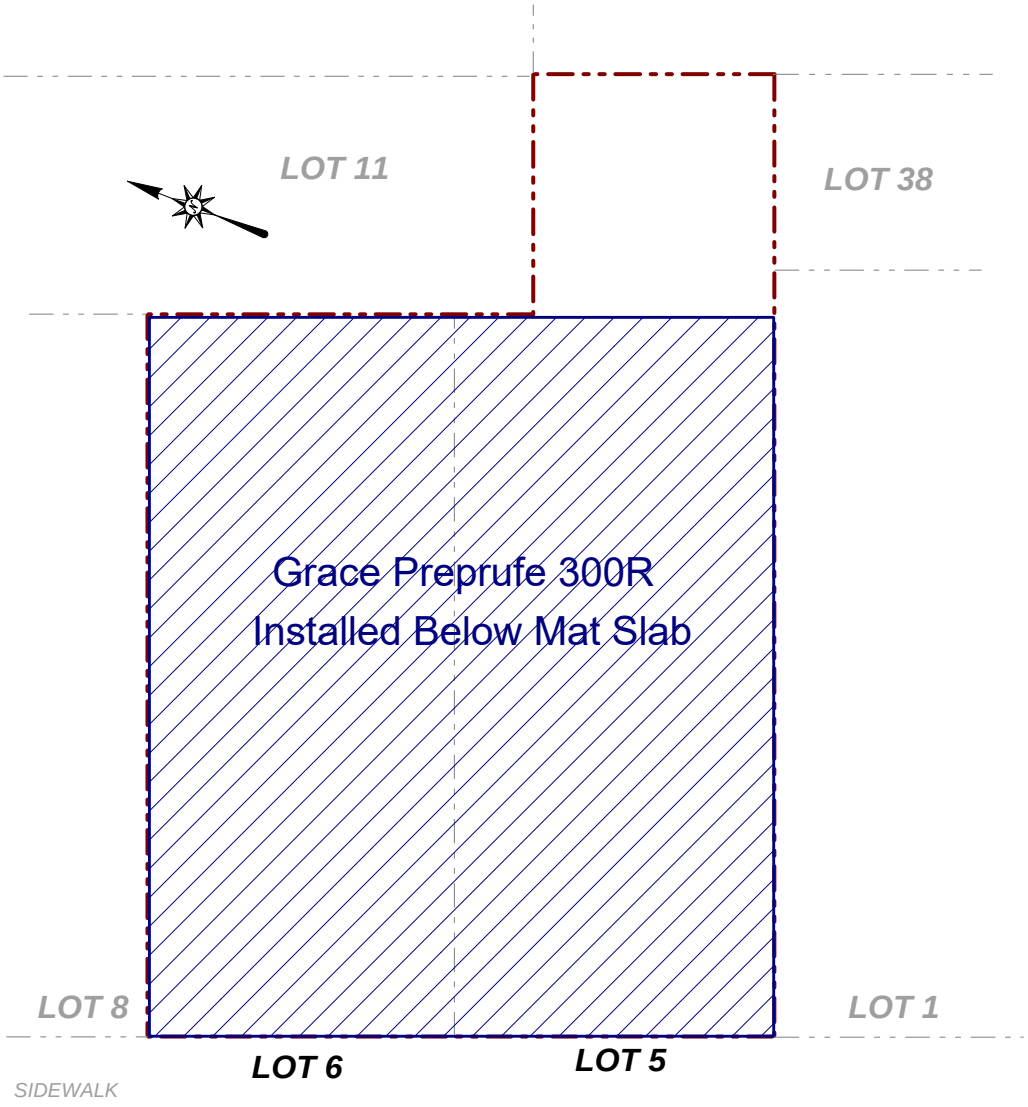
AMC Engineering
1836 42nd Street
Astoria, NY 11105

Figure No. **7**

Site Name: Redevelopment Project

Site Address: 170-174 West Street, Brooklyn, NY

Drawing Title: Composite Cover Diagram



AMC Engineering
1836 42nd Street
Astoria, NY 11105

Figure No.
8

Site Name: REDEVELOPMENT PROJECT
Site Address: 170-174 WEST STREET, BROOKLYN, NY
Drawing Title: VAPOR BARRIER LAYOUT