

444 10TH AVENUE

MANHATTAN, NEW YORK

Remedial Action Report

NYC VCP Number: 14CVCP235M

NYC E-Designation Number: 14EH-N116M

Prepared for:

Tenth Avenue YYY, LLC
40 Fulton Street, 21st Floor
New York, NY 10038

Prepared by:

Brinkerhoff Environmental Services, Inc.
1805 Atlantic Avenue
Manasquan, New Jersey 08736
Brinkerhoff Project No. 12BR198

APRIL 2016

REMEDIAL ACTION REPORT

TABLE OF CONTENTS

TABLE OF CONTENTS	2
LIST OF ACRONYMS	6
CERTIFICATION	8
EXECUTIVE SUMMARY	9
REMEDIAL ACTION REPORT	15
1.0 SITE BACKGROUND	15
1.1 SITE LOCATION AND PRIOR USAGE	15
1.2 REDEVELOPMENT PLAN	15
1.3 DESCRIPTION OF SURROUNDING PROPERTY	16
1.4 REMEDIAL INVESTIGATION	16
2.0 DESCRIPTION OF REMEDIAL ACTIONS	19
3.0 COMPLIANCE WITH REMEDIAL ACTION WORK PLAN	22
3.1 HEALTH AND SAFETY PLAN	22
3.2 COMMUNITY AIR MONITORING PLAN	22
3.3 SOIL/MATERIALS MANAGEMENT PLAN	22
3.4 STORMWATER POLLUTION PREVENTION	22
3.5 DEVIATIONS FROM THE REMEDIAL ACTION WORK PLAN	23
4.0 REMEDIAL PROGRAM	24
4.1 PROJECT ORGANIZATION	24
4.2 SITE CONTROLS	24
4.3 MATERIALS EXCAVATION AND REMOVAL	26
4.4 MATERIALS DISPOSAL	27
4.5 BACKFILL IMPORT	28
4.6 DEMARCATION	28
5.0 ENGINEERING CONTROLS	29
6.0 INSTITUTIONAL CONTROLS	31
7.0 SITE MANAGEMENT PLAN	32
8.0 SUSTAINABILITY REPORT	33

FIGURES

1. Site Location Map
2. Tax Map
3. Surrounding Land Usage Map
4. Excavation Map
5. End Point Sample Location Map
6. Composite Cover Location Map
7. Composite Cover Cross-Sectional As-Built Detail

TABLES

1. End Point Sample Results Summary – August 26, 2014
2. End Point Sample Results Summary – August 28, 2014
3. Waste Disposal Tracking Log Summary

APPENDICES

- I. Architectural Drawings
- II. Previous Environmental Reports
- III. Daily Reports to OER
- IV. Community Air Monitoring Plan
- V. Soil/Materials Management Plan
- VI. Photograph Log
- VII. Disposal Manifests
- VIII. Disposal Facility Approval and Acceptance Letters
- IX. Waste Characterization and End Point Samples Analytical Data Packages
- X. Waterproofing/Vapor Barrier Membrane Specifications

LIST OF ACRONYMS

Acronym	Definition
Accredited	Accredited Analytical Resources, LLC
BGS	Below Grade Surface
CAMP	Community Air Monitoring Plan
DER-10	NYS DEC Division of Environmental Remediation Technical Guidance Manual 10
EC	Engineering Control
ESA	Environmental Site Assessment
GQS	Groundwater Quality Standards
HASP	Health and Safety Plan
IC	Institutional Control
Mg/Kg	Milligrams per Kilogram
NYC VCP	New York City Voluntary Cleanup Program
NYC DEP	New York City Department of Environmental Protection
NYC DOH	New York City Department of Health
NYC OER	New York City Office of Environmental Remediation
NYS DEC	New York State Department of Environmental Conservation
ORC	Oxygen Release Compound
PCBs	Polychlorinated Biphenyls
PID	Photoionization Detector
QA/QC	Quality Assurance/Quality Control
QEP	Qualified Environmental Professional
RAR	Remedial Action Report
RAWP	Remedial Action Work Plan
RI	Remedial Investigation
SCG	Standards, Criteria and Guidance
SCO	Soil Cleanup Objective
SMMP	Soil/Materials Management Plan

SMP	Site Management Plan
SVOCs	Semi-Volatile Organic Compounds
TAL	Target Analyte List
Ug/L	Micrograms per Liter
Ug/m ³	Micrograms per Cubic Meter
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

CERTIFICATION

I, Gene Santana, certify to 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 444 10th Avenue site, site number 14CVCP235M.
- I have reviewed this document, to which my signature and seal are affixed.
- Engineering Controls implemented 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 Engineering Controls constructed during this remedial action were professionally observed by me or by a person under my direct supervision and (1) are consistent with the Engineering Control design established in the Remedial Action Work Plan and (2) 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 7, 2014 and Stipulations in a letter dated March 24, 2014 were implemented and that all requirements in those documents have been substantively complied with.
- 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.

GENE SANTANA, P.E.

Name

NY LIC No. 094749-1

PE License Number

Gene Santana

Signature

4/27/2016

Date



EXECUTIVE SUMMARY

Site Location and Prior Usage

The Site is located at 444 10th Avenue in the Javits Center section of Manhattan, New York, and is identified as Block 732, Lot 70, on the New York City Tax Map. *Figure 1* shows the Site location. The Site consists of 4,942-square feet and is bounded by commercial/residential structures to the north across West 35th Avenue, commercial/residential structures to the south, commercial/residential structures to the east, and commercial structures to the west across 10th Avenue. A map of the site boundary is shown on *Figure 2*. Prior to redevelopment, the site was occupied as a vehicle parking lot.

Summary of Redevelopment Plan

The redevelopment of the Site consists of one (1) 18-story hotel structure with a below grade cellar. The building consists of commercial hotel space with retail space on the first floor. The building occupies a base footprint of approximately 4,942-square feet. A gym, storage space, office space and utility rooms are located in the cellar. The cellar floor is approximately 10.5 feet below grade surface (bgs). The cellar and first floors were built out to the northern and western property lines. The foundation wall was built out to within four (4) inches of the eastern and southern property lines. The architectural drawings are provided in *Appendix I*. The redevelopment of the site is consistent with existing zoning for the property which is C6-4, Commercial District.

Summary of Past Uses of Site

Based upon the findings of the Phase I Environmental Site Assessment (ESA) completed for the site, performed by Brinkerhoff and dated December 2012, the Site was developed prior to 1890 with two (2) five-story structures with basements. Both buildings were used primarily for residential and commercial purposes. Between 1931 and 1950, the structure to the north was demolished. By 1975, the site was vacant. Since

at least 1979 prior to redevelopment, the Site operated as a parking lot. Previous Environmental Reports are provided as *Appendix II*.

Summary of Environmental Findings

Brinkerhoff performed a Remedial Investigation (RI), dated February 2014, and the following scope of work was completed:

1. Installed five (5) test pits across the Site and collected 10 soil samples for chemical analysis from the test pits to evaluate soil quality;
2. Installed three (3) groundwater monitoring wells throughout the Site to establish groundwater flow and collected two (2) groundwater samples for chemical analysis to evaluate groundwater quality. A third sample could not be collected due to an insufficient amount of groundwater present in the monitoring well at the time of sample collection;
3. Installed three (3) soil vapor probes at the Site and collected three (3) samples for chemical analysis.

The environmental findings of the RI consisted of the following:

1. Elevation of the property ranged from approximately 45.30 feet at the eastern property boundary to 43.50 feet at the western property boundary.
2. Depth to groundwater ranged from 9.98 feet bgs to 10.78 feet bgs at the Site, which corresponded to at or near the top of bedrock.
3. Groundwater flow was generally to the northwest beneath the Site based on local topography.
4. Depth to weathered bedrock averaged to approximately eight (8) to 12 feet bgs.
5. Asphalt and road stone extended from ground surface to one (1) feet bgs. Fill consisting of brick fragments and gravel with some grey silty sand and concrete was observed from one (1) feet to three (3) feet bgs. Fill consisting of grey and/or brown silty sand with brick fragments and fill material extended to nine (9) feet bgs at the northwest and southeast portions of the site. This fill was observed extending to 12 feet bgs at the southwestern and northeastern portions of the site.

Bedrock was encountered at a minimum depth of nine (9) feet bgs to over 12 feet bgs. Groundwater was not encountered during the installation of test pits.

6. Laboratory analytical results from the soil samples were compared to all of the New York State Department of Environmental Conservation's (NYSDEC's) Subpart 375-6 Soil Cleanup Objectives (SCOs). Several semi-volatile organic compounds (SVOCs), Target Analyte List (TAL) metals, and one (1) pesticide were reported in exceedance of NYSDEC Unrestricted Use SCOs. Two (2) metals were detected exceeding NYSDEC Restricted-Residential Use SCOs including barium (maximum 1640 milligrams per kilogram [mg/kg]) and lead (maximum 1,530 mg/kg). One pesticide, Aldrin, was detected (maximum 0.0267 mg/kg) excess of NYSDEC Restricted-Residential Use SCOs. Several SVOCs were also detected exceeding the NYSDEC Restricted-Residential Use SCOs including Benzo(a)anthracene (maximum 39.2 mg/kg), Benzo(a)pyrene (maximum 30.9 mg/kg), Benzo(b)fluoranthene (maximum 36.2 mg/kg), Benzo(k)fluoranthene (maximum 20.4 mg/kg), Chrysene (maximum 35.6 mg/kg), Dibenzo(a,h)anthracene (maximum 5.26 mg/kg), and Indeno(1,2,3-cd)pyrene (maximum 15 mg/kg). SVOC and TAL metal exceedances were reported in all soil sample locations and extended through the fill layer. Impacts were identified in both the shallow and deep samples at the bedrock/soil interface. Aldrin was reported in excess of its SCOs in the shallow soil sample collected at the southwestern corner of the Site. Volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs) were not reported in excess of SCOs.
7. Groundwater samples showed no VOCs, SVOCs, PCBs, or pesticides above the NYSDEC 6 NYCRR Part 703.5 Groundwater Quality Standards (GQS). Only manganese (548 ug/L in MW-2) and sodium (maximum of 799,000 ug/L in MW-2) were detected above the GQS in dissolved samples. A groundwater sample was not collected from MW-3, located on the southeastern portion of the Site, due to an insufficient amount of groundwater present in the monitoring well.
8. Three (3) soil vapor samples were collected during the RI and indicated concentrations of petroleum related compounds. Various compounds were

detected at low concentrations including benzene (maximum 3.9 micrograms per cubic meter [ug/m³]), ethylbenzene (maximum 4.3 ug/m³), tert-butyl alcohol (15 ug/mg³), toluene (maximum 31 ug/m³), and total xylenes (maximum 19.7 ug/m³). In addition, two (2) compounds identified on the NYSDEC Matrix 1 were detected, specifically carbon tetrachloride and trichloroethene (TCE). Carbon tetrachloride was reported at concentrations of 0.25 ug/m³ in SV-2 located centrally on the Site and SV-3 located at the southwestern portion of the Site. Carbon tetrachloride was non-detect (ND) in SV-1 located at the northwestern portion of the Site. TCE was reported at a concentration of 1.0 ug/m³ at sample location SV-1, ND at sample location SV-2, and at a reported concentration of 2.1 ug/m³ at sample location SV-3.

Summary of the Remedial Action

A general summary of the Remedial Action is as follows: A Pre-Application Meeting was held September 4, 2013. An RI was performed and a Remedial Investigation Report was prepared in February 2014. A RAWP was prepared in February 2014. An Application Fact Sheet was released announcing a 30-day public comment period on the RAWP, dated February 21, 2014. The RAWP and Stipulation List dated March 24, 2014 was approved by the New York City Office of Environmental Remediation on March 24, 2014. A Pre-Construction Meeting was held April 28, 2014. A Fact Sheet providing notice of the start of the Remedial Action was issued July 17, 2014. Remedial Action began in July 2014 and was completed in September 2015.

The following Remedial Actions were completed in this program:

1. Prepared a Community Protection Statement and implemented a Citizen Participation Plan.
2. Performed a Community Air Monitoring Program for particulates and volatile organic carbon compounds.
3. Established Track 1 SCOs. All onsite soil was removed and the foundation slab was directly poured onto crushed stone and bedrock. Achieved Track 1 SCOs for soil at the Site.
4. Mobilized to the site in July 2014 and established Site security, equipment mobilization, utility mark outs and marking & staking excavation areas.

5. All soil was removed and the property was excavated into bedrock between 12 and 14 feet below the 10th Ave sidewalk grade. Additionally, approximately three (3) feet of bedrock was removed by pneumatic hammers across the site to reach the design elevation for the cellar. A total of 5,753.66 tons of soil/fill and bedrock fragments were excavated and removed from the property. Soil/fill and bedrock fragments were disposed at the following facilities:
 - a. 3,981.58 tons of non-hazardous soil and bedrock fragments to Bayshore Recycling Corp, 75 Crows Mill Road, Keasbey, New Jersey; and
 - b. 1,772.08 tons of non-hazardous soil (Common Fill) to Morris Fairmount Associates, 117 Blanchard Street, Newark, New Jersey.
6. No underground storage tanks were identified during the remedial action.
7. All excavated soil/fill material was screened during intrusive work for indications of contamination by visual means, odor, and monitoring with a photoionization detector (PID).
8. Sampled and analyzed excavated media as required by disposal facilities. Appropriately segregated excavated media onsite prior to disposal.
9. Transported and disposed all soil/fill material at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and the New York City Office of Environmental Remediation (OER)-approved Remedial Action Work Plan (RAWP).
10. As part of redevelopment, constructed an engineered Composite Cover System across the entire site consisting of the building slab and the concrete-covered sidewalks. The building component consisted of a three (3) to four (4)-foot concrete mat slab (mat slab thickness varies) overlying a SikaProof® A Waterproofing Membrane, overlying a three (3)-inch concrete rat slab, and a minimum of 12-inches of crushed stone. The crushed stone was directly applied onto bedrock. Additionally, the sidewalks consist of concrete overlying a gravel layer and the underlying soils.
11. As part of redevelopment, a Waterproofing/Vapor Barrier System was installed beneath the site-wide foundation slab and was extended along the sub-grade foundation sidewalls. The SikaProof® A Waterproofing/Vapor Barrier Membrane was utilized and it consists of a highly flexible polyolefin membrane with a

sealant grid pattern and a “non-woven” fleece. The contractor for construction of the Waterproofing/Vapor Barrier System was Joy Construction Corp.

12. Implemented storm-water pollution prevention measures in compliance with applicable laws and regulations.
13. Performed all activities required for the Remedial Action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations.
14. Submitted a Sustainability Report.
15. Submitted a Remedial Action Report (RAR) that describes the Remedial Action; certifies that the remedial requirements defined in the OER-approved RAWP have been achieved; defines the Site boundaries; and lists any changes from the OER-approved RAWP.

REMEDIAL ACTION REPORT

1.0 SITE BACKGROUND

Tenth Avenue YYY, LLC enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a property located at 444 10th Avenue in the Javits Center section of Manhattan, New York. The boundary of the property subject to the Remedial Action is shown on *Figure 1* and includes, in their entirety, Manhattan Block 732 and Lot 70.

The Remedial Action was performed pursuant to the NYC 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 PRIOR USAGE

The Site is located at 444 10th Avenue in the Javits Center section of Manhattan, New York, and is identified as Block 732, Lot 70, on the New York City Tax Map. *Figure 1* shows the Site location. The Site consists of 4,942-square feet and is bounded by commercial/residential structures to the north across West 35th Avenue, commercial/residential structures to the south, commercial/residential structures to the east, and commercial structures to the west across 10th Avenue. A map of the site boundary is shown on *Figure 2*. Prior to redevelopment, the site was occupied as a vehicle parking lot.

1.2 REDEVELOPMENT PLAN

The redevelopment of the Site consists of one (1) 18-story hotel structure with a below grade cellar. The building consists of commercial hotel space with retail space on the first floor. The building occupies a base footprint of approximately 4,942-square feet. A gym, storage space, office space and utility rooms are located in the cellar. The cellar floor is approximately 10.5 feet bgs. The cellar and first floors were built out to the

northern and western property lines. The foundation wall was built out to within four (4) inches of the eastern and southern property lines. The architectural drawings are provided in *Appendix 1*. The redevelopment of the site is consistent with existing zoning for the property which is C6-4, Commercial District.

1.3 DESCRIPTION OF SURROUNDING PROPERTY

The areas to the northeast and east of the site are zoned as R8A, Residential District. The areas to the northwest, west, and south of the site are zoned for commercial purposes. Besides the residential structures located to the northeast and east of the site, there are no sensitive receptors such as schools, hospitals, and day care facilities within a 250- to 500-foot radius according to <http://www.oasisnyc.com>. There are no parks, public lands, or open spaces within a 250- to 500-foot radius. The Site is not identified as within a historic district. *Figure 3* shows the surrounding land usage.

1.4 REMEDIAL INVESTIGATION

Brinkerhoff performed a RI, dated February 2014, and the following scope of work was completed:

1. Installed five (5) test pits across the Site and collected 10 soil samples for chemical analysis from the test pits to evaluate soil quality;
2. Installed three (3) groundwater monitoring wells throughout the Site to establish groundwater flow and collected two (2) groundwater samples for chemical analysis to evaluate groundwater quality. A third sample could not be collected due to an insufficient amount of groundwater present in the monitoring well at the time of sample collection;
3. Installed three (3) soil vapor probes at the Site and collected three (3) samples for chemical analysis.

The environmental findings of the RI consisted of the following:

1. Elevation of the property ranged from approximately 45.30 feet at the eastern property boundary to 43.50 feet at the western property boundary.
2. Depth to groundwater ranged from 9.98 feet bgs to 10.78 feet bgs at the Site, which corresponded to at or near the top of bedrock.

3. Groundwater flow was generally to the northwest beneath the Site based on local topography.
4. Depth to weathered bedrock averaged to approximately eight (8) to 12 feet bgs.
5. Asphalt and road stone extended from ground surface to one (1) feet bgs. Fill consisting of brick fragments and gravel with some grey silty sand and concrete was observed from one (1) feet to three (3) feet bgs. Fill consisting of grey and/or brown silty sand with brick fragments and fill material extended to nine (9) feet bgs at the northwest and southeast portions of the site. This fill was observed extending to a depth of 12 feet bgs at the southwestern and northeastern portions of the site. Bedrock was encountered at a minimum depth of nine (9) feet bgs to over 12 feet bgs. Groundwater was not encountered during the installation of test pits.
6. Laboratory analytical results from the soil samples were compared to all of the NYSDEC Subpart 375-6 SCOs. Several SVOCs, TAL metals, and one (1) pesticide were reported in exceedance of NYSDEC Unrestricted Use SCOs. Two (2) metals were detected exceeding NYSDEC Restricted-Residential Use SCOs including barium (maximum 1640 mg/kg) and lead (maximum 1,530 mg/kg). One pesticide, Aldrin, was detected (maximum 0.0267 mg/kg) excess of NYSDEC Restricted-Residential Use SCOs. Several SVOCs were also detected exceeding the NYSDEC Restricted-Residential Use SCOs including Benzo(a)anthracene (maximum 39.2 mg/kg), Benzo(a)pyrene (maximum 30.9 mg/kg), Benzo(b)fluoranthene (maximum 36.2 mg/kg), Benzo(k)fluoranthene (maximum 20.4 mg/kg), Chrysene (maximum 35.6 mg/kg), Dibenzo(a,h)anthracene (maximum 5.26 mg/kg), and Indeno(1,2,3-cd)pyrene (maximum 15 mg/kg). SVOC and TAL metal impacts were reported in all soil sample locations and extended through the fill layer. Impacts were identified in both the shallow and deep samples at the bedrock/soil interface. Aldrin was reported in excess of its

SCOs in the shallow soil sample collected at the southwestern corner of the Site. VOCs and PCBs were not reported in excess of SCOs.

7. Groundwater samples showed no VOCs, SVOCs, PCBs, or pesticides above the NYSDEC 6 NYCRR Part 703.5 GQS. Only manganese (548 ug/L in MW-2) and sodium (maximum of 799,000 ug/L in MW-2) were detected above the GQS in dissolved samples. A groundwater sample was not collected from MW-3, located on the southeastern portion of the Site, due to an insufficient amount of groundwater present in the monitoring well.
8. Three (3) soil vapor samples were collected during the RI and indicated concentrations of petroleum-related compounds. Various compounds were detected at low concentrations including benzene (maximum 3.9 ug/m³), ethylbenzene (maximum 4.3 ug/m³), tert-butyl alcohol (15 ug/mg³), toluene (maximum 31 ug/m³), and total xylenes (maximum 19.7 ug/m³). In addition, two (2) compounds identified on the NYSDEC Matrix 1 were detected, specifically carbon tetrachloride and TCE. Carbon tetrachloride was reported at concentrations of 0.25 ug/m³ in SV-2 located centrally on the Site and SV-3 located at the southwestern portion of the Site. Carbon tetrachloride was ND in SV-1 located at the northwestern portion of the Site. TCE was reported at a concentration of 1.0 ug/m³ at sample location SV-1, ND at sample location SV-2, and at a reported concentration of 2.1 ug/m³ at sample location SV-3.

Previous Environmental Reports are provided in *Appendix II*.

2.0 DESCRIPTION OF REMEDIAL ACTIONS

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.

The remedial action was evaluated in an alternatives analysis and was determined by OER 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 general summary of the Remedial Action is as follows: A Pre-Application Meeting was held September 4, 2013. An RI was performed and a Remedial Investigation Report was prepared in February 2014. A RAWP was prepared in February 2014. An Application Fact Sheet was released announcing a 30-day public comment period on the RAWP, dated February 21, 2014. The RAWP and Stipulation List dated March 24, 2014 was approved by the New York City Office of Environmental Remediation on March 24, 2014. A Pre-Construction Meeting was held April 28, 2014. A Fact Sheet providing notice of the start of the Remedial Action was issued July 17, 2014. Remedial Action began in July 2014 and was completed in September 2015.

The following Remedial Actions were completed in this program:

1. Prepared a Community Protection Statement and implemented a Citizen Participation Plan.
2. Performed a Community Air Monitoring Program for particulates and volatile organic carbon compounds.
3. Established Track 1 SCOs. All onsite soil was removed and the foundation slab was directly poured onto crushed stone ad bedrock. Achieved Track 1 SCOs for soil at the Site.

4. Mobilized to the site in July 2014 and established Site security, equipment mobilization, utility mark outs and marking & staking excavation areas.
5. All soil was removed and the property was excavated into bedrock between 12 and 14 feet below the 10th Ave sidewalk grade. Additionally, approximately three (3) feet of bedrock was removed by pneumatic hammers across the site to reach the design elevation for the proposed cellar. A total of 5,753.66 tons of soil/fill and bedrock fragments were excavated and removed from the property. Soil/fill and bedrock fragments were disposed at the following facilities:
 - a. 3,981.58 tons of non-hazardous soil and bedrock fragments to Bayshore Recycling Corp, 75 Crows Mill road, Keasbey, New Jersey; and
 - b. 1,772.08 tons of non-hazardous soil (Common Fill) to Morris Fairmount Associates, 117 Blanchard Street, Newark, New Jersey.
6. No underground storage tanks were identified during the remedial action.
7. All excavated soil/fill material was screened during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID.
8. Sampled and analyzed excavated media as required by disposal facilities. Appropriately segregated excavated media onsite prior to disposal.
9. Transported and disposed all soil/fill material at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and the RAWP.
10. As part of redevelopment, constructed an engineered Composite Cover System across the entire site consisting of the building slab and the concrete-covered sidewalks. The building component consisted of a three (3) to four (4)-foot concrete mat slab (mat slab thickness varies) overlying a SikaProof® A Waterproofing Membrane, overlying a three (3)-inch concrete rat slab, and a minimum of 12-inches of crushed stone. The crushed stone was directly applied onto bedrock. Additionally, the sidewalks consist of concrete overlying a gravel layer and the underlying soils.
11. As part of redevelopment, a Waterproofing/Vapor Barrier System was installed beneath the site-wide foundation slab and was extended along the

sub-grade foundation sidewalls. The SikaProof® A Waterproofing/Vapor Barrier Membrane was utilized and it consists of a highly flexible polyolefin membrane with a sealant grid pattern and a non-woven fleece. The contractor for construction of the Waterproofing/Vapor Barrier System was Joy Construction Corp.

12. Implemented storm-water pollution prevention measures in compliance with applicable laws and regulations.
13. Performed all activities required for the Remedial Action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations.
14. Submitted a Sustainability Report.
15. Submitted an RAR that describes the Remedial Action; certifies that the remedial requirements defined in the OER-approved RAWP have been achieved; defines the Site boundaries; and lists any changes from the OER-approved RAWP.

3.0 COMPLIANCE WITH REMEDIAL ACTION WORK PLAN

3.1 HEALTH & SAFETY PLAN

The remedial construction activities performed under this program were in compliance with the Health and Safety Plan and applicable laws and regulations.

3.2 COMMUNITY AIR MONITORING PLAN

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 in compliance with the Community Air Monitoring Plan in the OER-approved RAWP. The results of community air monitoring are shown in the daily reports which are provided as *Appendix III*. The Community Air Monitoring Plan is provided as *Appendix IV*.

3.3 SOIL/MATERIALS MANAGEMENT PLAN

The Soil/Materials Management Plan provided detailed plans for managing all soil/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 compliance with the SMMP in the OER-approved RAWP. The SMMP is provided in *Appendix V*.

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 OER-approved RAWP for storm water prevention and applicable laws and regulations.

3.5 DEVIATIONS FROM THE REMEDIAL ACTION WORK PLAN

As per the OER-approved RAWP, a VaporBlock Plus 20-mil vapor barrier membrane manufactured by Raven Industries was proposed to be installed beneath the foundation slab and along the foundation sidewalls. However, the design changed and the SikaProof® A 0.8 millimeter waterproofing/vapor barrier membrane was installed. The SikaProof®A waterproofing/vapor barrier membrane is further discussed in Section 5.0.

4.0 REMEDIAL PROGRAM

4.1 PROJECT ORGANIZATION

Principal personnel who participated in the remedial action included Professional Engineer (PE) Gene Santana and Qualified Environmental Professionals (QEPs) Doug Harm, Project Director, and Sean Harrison, Project Geologist.

4.2 SITE CONTROLS

Site Preparation

The following activities were completed prior to beginning the Remedial Action:

- Mobilization;
- Constructed fence around the site perimeter;
- Constructed designated truck wash area;
- Erosion and sedimentation controls;
- Utility marker layout;
- Acquisition of agency approvals (city permits, etc.).

An OER Project Notice was erected at the project entrance and was in place during all phases of the Remedial Action.

Soil Screening

Soil excavation activities began in July 2014. During excavation activities, Brinkerhoff inspected the soil being removed from the site for evidence of contamination via visual, olfactory and PID methods. A handheld PID was utilized to screen for the presence of VOCs within the work area. Before ground-intrusive activities commenced each day, calibration of the PID was performed and background VOC concentrations within the work area were established. No VOC exceedances were detected during excavation activities at the site.

Stockpile Management

During excavation, soil was either directly loaded into tri-axel dump trucks or temporarily stockpiled on-site for later off-site disposal. Stockpiles were used only when necessary and were removed as soon as practicable. Soil stockpiles were inspected daily, and before and after every storm event. Results of inspections were recorded in a logbook and were maintained at the Site and available for inspection by OER. Excavated soils were stockpiled on a minimum of two layers of 8-mil polyethylene sheeting and were kept covered at all times with appropriately anchored plastic tarps. Broken or ripped tarps were promptly replaced, as necessary. All stockpiling activities were compliant with applicable laws and regulations.

Truck Inspection

Before leaving the Site, exiting vehicles and equipment (e.g. excavators) were inspected for evidence of contaminated soil on the undercarriage, body, and wheels of all exiting vehicles and equipment. If necessary, soil and debris were removed from exiting vehicles and equipment by the application of clean water or by the use of brooms and shovels.

Site Security

The site was secured by fencing and security at entrance gates.

Nuisance Controls

No issues of odors, dust, or neighborhood complaints were encountered during excavation activities at the site. None to minimal dust associated with the excavation of on-site soil was observed leaving the site. Occasionally, active construction activities (e.g. sweeping, jackhammering bedrock, cutting wood, etc.) generated visible dust; however, the contractor implemented dust suppression methods to minimize the generation of such particulates. Dust suppression methods included the application of water to the excavation and working areas.

No odor nuisances were observed on or leaving the site. During excavation, the contractor implemented odor suppression methods such as covering soil stockpiles with anchored-tarps.

Reporting

As requested by OER, daily field reports were provided to the OER project manager. The reports included a summary of daily field activities, work zone locations, quantities of excavated/disposed soil, status of on-site stockpiles, CAMP enclosure locations, site photographs, and all site-specific OER identification numbers. All daily and monthly reports are included in *Appendix III*. Digital photographs of the Remedial Action are included in *Appendix VI*.

4.3 MATERIALS EXCAVATION AND REMOVAL

Track 1 SCOs were proposed for this project and were achieved. During the remedial action, approximately 5,754 tons of soil and bedrock fragments were excavated and disposed at two (2) separate facilities. The entire site was excavated to bedrock (excavation depths varied between 12 and 14 feet bgs) and approximately three (3) feet of bedrock was also removed across the entire site. Exposed bedrock was removed to approximately 15 feet bgs across the site via excavator pneumatic hammer attachments. Excavated soils were disposed at the following facilities:

- Bayshore Recycling Corp., 75 Crows Mill Road, Keasbey, New Jersey
- Morris Fairmount Associates, 117 Blanchard Street, Newark, New Jersey

Approximately 1,772.08 tons of non-hazardous soil (Common Fill) was disposed at the Morris Fairmount Associates Facility and approximately 3,981.58 tons of non-hazardous soil mixed with bedrock fragments was disposed at the Bayshore Recycling Corp. Facility. Copies of the soil disposal waste manifests are provided in *Appendix VII*. Prior to off-site disposal, facility approval letters were received from the designated facilities accepting soils from the site. Facility acceptance letters are provided in *Appendix VIII*. A map showing the location where excavations were performed is shown in *Figure 4*.

End Point Sample Results

Following the completion of site-wide excavation to bedrock, Brinkerhoff collected post-excavation end point soil samples. Bedrock was encountered between 12 and 14 feet bgs. A total of six (6) end point samples (EP-1 through EP-6) were collected. End point soil samples EP-1 through EP-4 were collected on August 26, 2014 and end point samples EP-5 and EP-6 were collected on August 28, 2014. End point samples were collected from soil on top of bedrock before the sampled soil and underlying rock was removed from the site as part of property development. The end point sample depths are indicated in *Tables 1* and *2*.

The aforementioned samples were submitted to Accredited Analytical Resources, LLC (Accredited) in Carteret, New Jersey a New York State Department of Health Environmental Laboratory Accreditation Program (NYSDOH ELAP)-certified laboratory. End point samples were analyzed for Pesticides and PCBs via United States Environmental Protection Agency (USEPA) Method SW846 8081/8082, SVOCs via USEPA Method SW846 8270, Total Mercury via USEPA Method SW846 7471, Total Metals via USEPA Method SW846 6010B, and VOCs via USEPA Method SW846 8260. End point samples EP-2, EP-3, EP-4, and EP-6 detected one pesticide, several SVOCs, and several metals with concentrations exceeding Track 1 SCOs. However, the endpoint samples were collected from the residual soil overlying the bedrock and subsequently all soil on the property and some bedrock was removed as part of development. Since no soil remains on the site, Track 1 SCOs have been achieved. A summary of the end point sample results are provided as *Tables 1* and *2*. The laboratory analytical data packages for the end-point samples are provided as *Appendix IX*. A map of the end-point sample locations is shown in *Figure 5*.

As part of development, protective systems such as a composite cover system and a waterproofing/vapor barrier system have been implemented at the site to be protective of public health and the environment. The protective systems are further discussed in Section 5.0.

4.4 MATERIALS DISPOSAL

Between July 14, 2014 and October 8, 2014, approximately 5,754 tons of soil and bedrock fragments were removed from the site. The entire site was excavated to bedrock (depths varied between approximately 12 and 14 feet bgs). Following excavation to bedrock, approximately three (3) feet of bedrock was removed across the site to approximately 15 feet bgs. The material type, quantity and disposal location of material removed and disposed off-Site is presented below:

Disposal Location/Address	Type of Material	Quantity (tons)
Bayshore Recycling Corp/ 75 Crows Mill Road, Keasbey, New Jersey	Non-Hazardous Soil and Bedrock Fragments	3,981.58
Morris Fairmount Associates/ Blanchard Street, Newark, New Jersey	Non-Hazardous Soil (Common Fill)	1,772.08

Letters from to disposal facility providing materials type, source and data, and acceptance letters from disposal facility stating it is approved to accept above materials are attached in *Appendix VIII*. Manifests are included in *Appendix VII*. Waste characterization sample results are provided in *Appendix IX*. A waste disposal tracking log summary is provided as *Table 3*.

4.5 BACKFILL IMPORT

As anticipated in the OER-approved RAWP, no sources of backfill were imported to the site.

4.6 DEMARCACTION

The Remedial Action achieved Track 1 SCO's and demarcation was not required.

5.0 ENGINEERING CONTROLS

A Track 1 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; and
- (2) Waterproofing/Vapor Barrier System.

Composite Cover System

The Composite Cover System was installed as part of development. The Composite Cover System is comprised of a three (3) to four (4)-foot concrete mat slab (mat slab thickness varies) overlying a SikaProof® A Waterproofing Membrane of 0.8 millimeters thickness, a three (3)-inch concrete rat slab, overlying a minimum of 12-inches of crushed stone. The crushed stone was directly applied onto bedrock. Additionally, the sidewalks consist of concrete overlying a gravel layer and the underlying soils. The contractor for construction of the Composite Cover System was Joy Construction Corp. **Figure 6** shows the location of each cover type built at the Site. **Figure 7** shows the as-built design for each remedial cover type used on this Site. Photographs of construction of the Composite Cover System are included in **Appendix VI**.

Waterproofing/Vapor Barrier System

The Waterproofing/Vapor Barrier System was installed as part of development. The SikaProof® A Waterproofing/Vapor Barrier Membrane System was utilized and consists of a highly flexible polyolefin membrane (FPO) with a sealant grid pattern and a non-woven fleece. The vapor membrane was installed beneath the site-wide foundation slab and was extended along the foundation sidewalls. The SikaProof® A membrane sheets were laid out on the concrete rat slab and were adhered together with SikaProof® Tape-150 and SikaProof® ExTape-150. The design engineer for the Waterproofing/Vapor Barrier System was Gene Santana, PE and the contractor for construction of the Waterproofing/Vapor Barrier System was Joy Construction Corp. **Figure 6** shows the location of the Waterproofing Membrane/Vapor Barrier System used on this Site and **Figure 7** shows a cross-sectional view of the system. Photographs of

installation of the Waterproofing/Vapor Barrier System are included in ***Appendix VI***. ***Appendix X*** provides supplemental information on the Waterproofing Membrane/Vapor Barrier System used on this Site.

6.0 INSTITUTIONAL CONTROLS

A Track 1 Remedial Action was achieved in the Remedial Action and Institutional Controls are not required.

7.0 SITE MANAGEMENT PLAN

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

8.0 SUSTAINABILITY REPORT

This Remedial Action Report provides for sustainable remediation and redevelopment through a variety of means that are defined in this Sustainability Report.

Conversion to Clean Fuels. Use of clean fuel improves NYC's air quality by reducing harmful emissions. Clean diesel was utilized by trucks removing excavated material to registered disposal facilities. Approximately 3,000 gallons of clean fuels were estimated to have been used during remedial activities. Natural gas is utilized for fuel source for the new building.

Recontamination Control. Recontamination after cleanup and redevelopment is completed undermines the value of work performed, may result in a property that is less protective of public health or the environment, and may necessitate additional cleanup work later that could impede future redevelopment. Recontamination can arise from future releases that occur within the property or by influx of existing contamination from off-Site.

Protective systems implemented on the site include a site-wide Composite Cover System and a Waterproofing/Vapor Barrier system. These controls protect underlying soil and provide protections if recontamination from off-site sources were to occur. These systems eliminate the risk of future migration of soil vapor contamination from off-site sources.

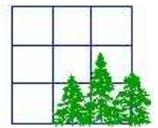
Storm-water Retention. Storm-water retention improves water quality by lowering the rate of combined storm-water and sewer discharges to NYC's sewage treatment plants during periods of precipitation, and reduces the volume of untreated influent to local surface waters.

An estimate of area of the property for which storm-water retention capability has been established for the redevelopment project is approximately 4,942-square feet.

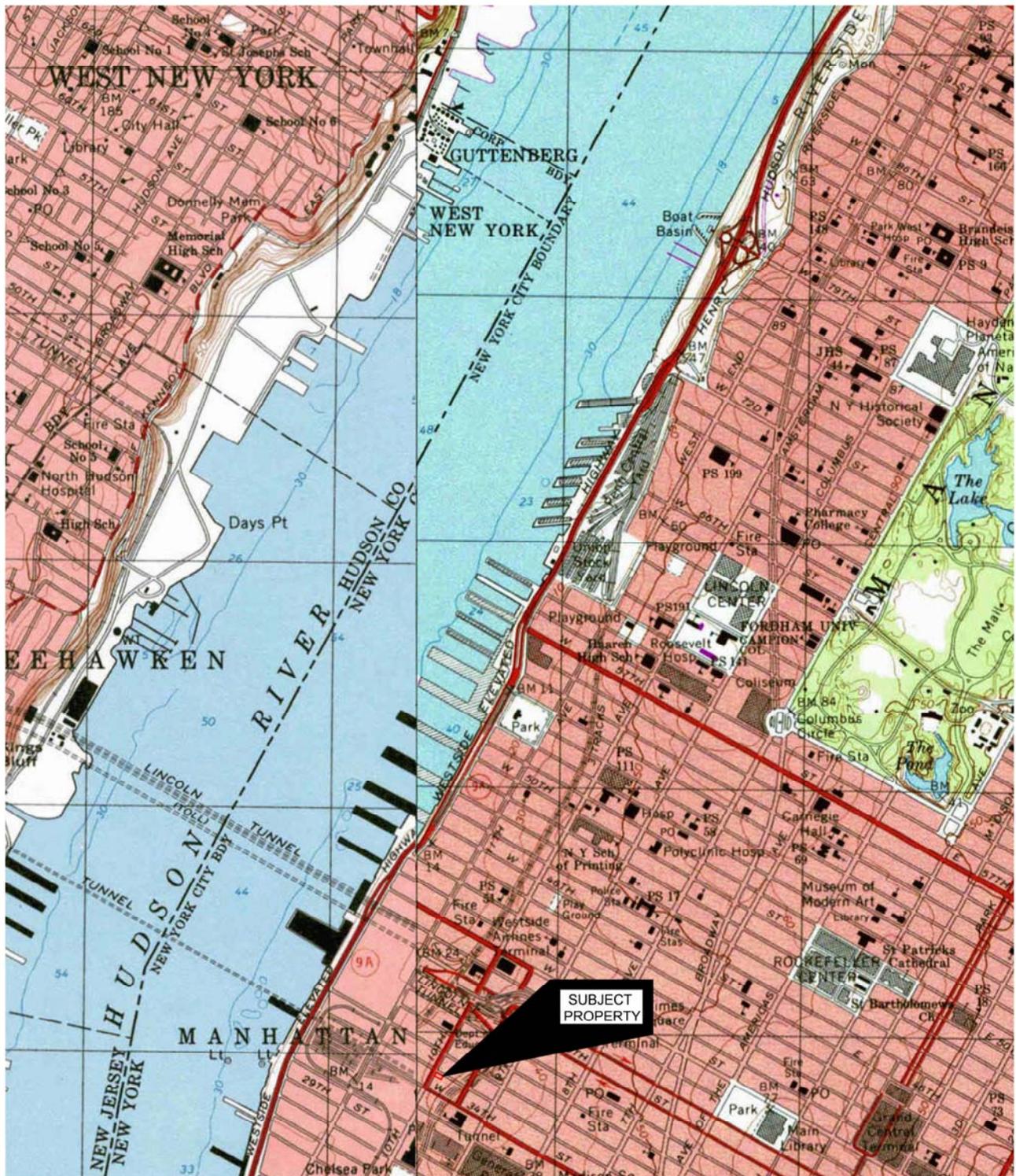
Paperless Brownfield Cleanup Program. Tenth Avenue YYY, LLC participated in OER's Paperless Voluntary Cleanup Program. Under this program, submission of electronic documents replaced submission of hard copies for the review of project documents, communications and milestone reports. A best estimate of the mass of paper saved under this plan is approximately 50 pounds.

Low-Energy Project Management Program. Tenth Avenue YYY, LLC participated in OER's low-energy project management program. Under this program, whenever possible, meetings were held using remote communication technologies, such as videoconferencing and teleconferencing to reduce energy consumption and traffic congestion associated with personal transportation. A gross estimate of the number of miles of personal transportation that was conserved in this process was approximately 200.

Trees and Plantings. Trees and other plantings provide habitat and add to NYC's environmental quality in a wide variety of ways. Native plant species and native habitat provide optimal support to local fauna, promote local biodiversity, and require less maintenance. The number of trees planted as part of this redevelopment was three (3).



Figures



SCALE: 1 : 24,000
 PHOTO REVISED: 1995

0' 1000' 2000'
 SCALE: 1"=2000'

BRINKERHOFF
 ENVIRONMENTAL SERVICES, INC.

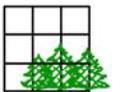
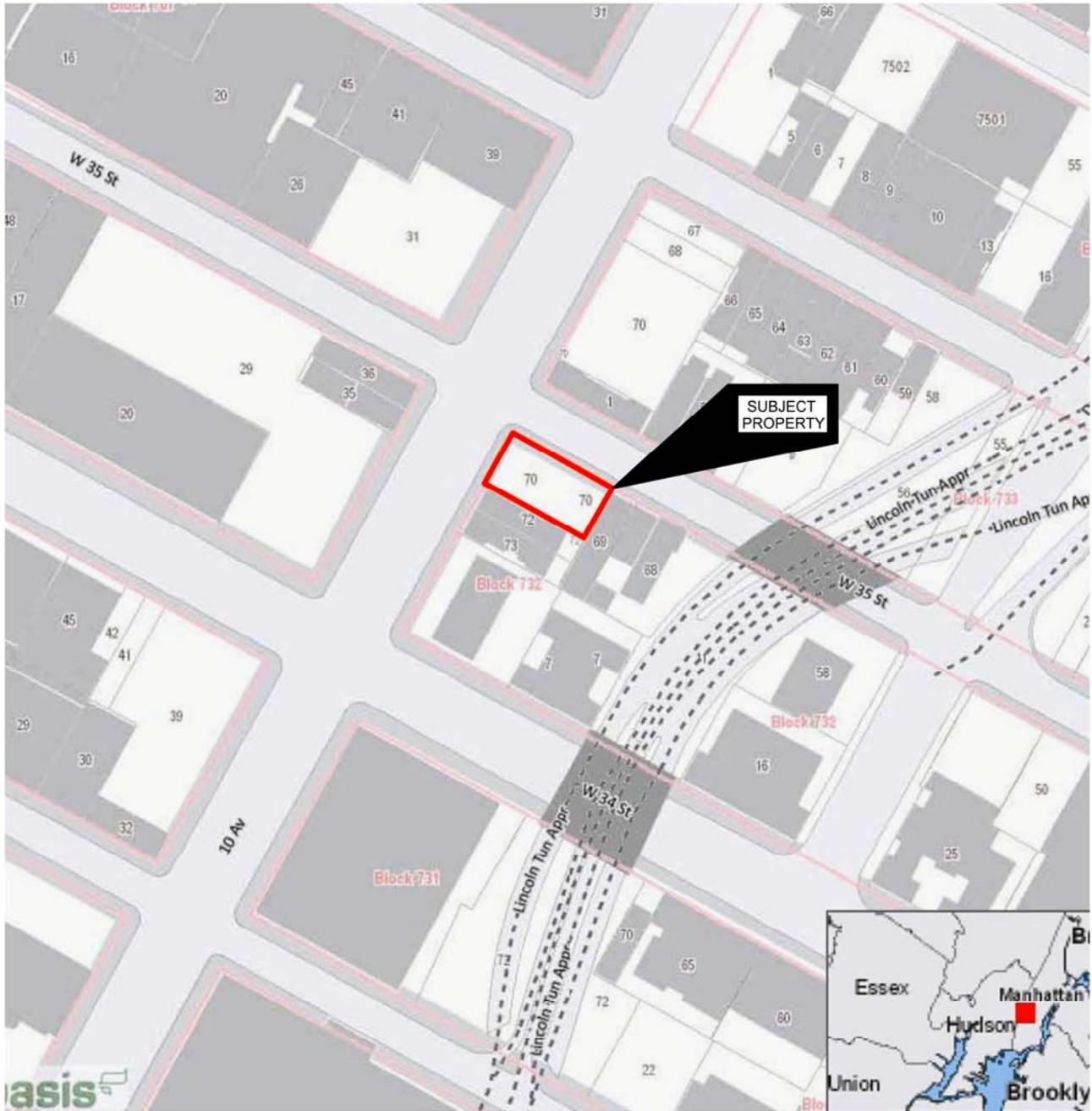


FIGURE 1 - SITE LOCATION MAP
 U.S.G.S. TOPOGRAPHIC CENTRAL PARK, NY QUAD
 444 10TH AVENUE
 BLOCK 732, LOT 70
 MANHATTAN, NEW YORK

DATE: 2/5/14

JOB NO.: 12BR198

SCALE: 1" = 2000'



0' 75' 150'
SCALE: 1"=150'

BRINKERHOFF

ENVIRONMENTAL SERVICES, INC.

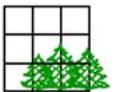


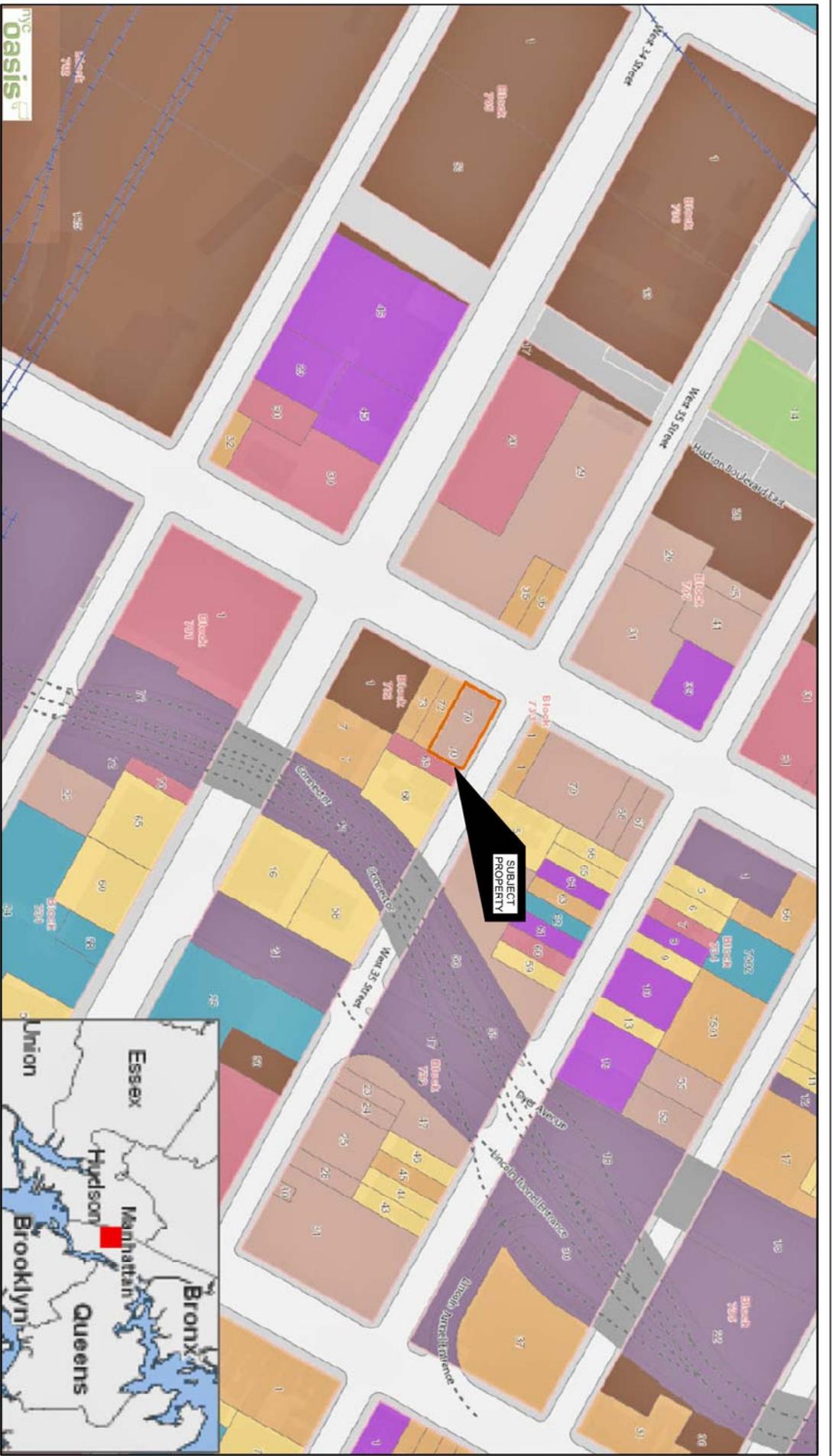
FIGURE 2 - TAX MAP

444 10TH AVENUE
BLOCK 732, LOT 70
MANHATTAN, NEW YORK

DATE: 2/5/14

JOB NO.: 12BR198

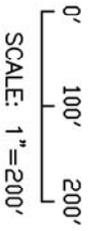
SCALE: 1" = 150'



Land Use

Block/Lot Boundaries (Building footprints in gray)

- 1 & 2 Family Residential
- Multi-family Residential
- Mixed Use
- Open Space & outdoor recreation
- Commercial
- Institutions
- Industrial
- Parking
- Transportation / Utilities
- Vacant Lots



BRINKERHOFF

ENVIRONMENTAL SERVICES, INC.

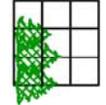
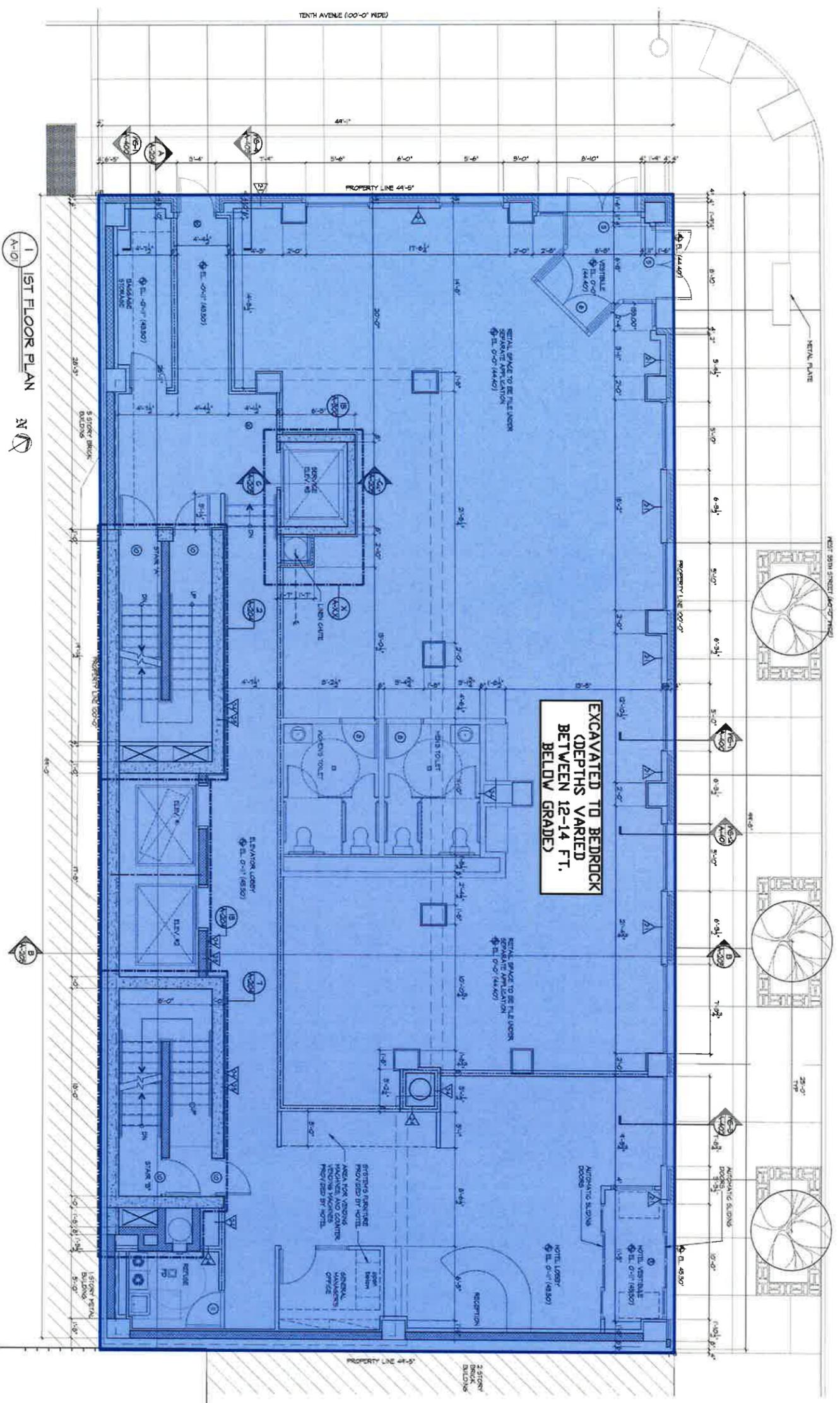


FIGURE 3

SURROUNDING LAND USAGE MAP
 444 10TH AVENUE
 BLOCK 732, LOT 70
 MANHATTAN, NEW YORK

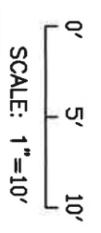
DATE: 9/1/15 JOB NO.: 12BR198 SCALE: 1" = 200'



1 1ST FLOOR PLAN

EXCAVATED TO BEDROCK
 DEPTHS VARIED
 BETWEEN 12-14 FT.
 BELOW GRADE

NOTE:
 1. FOLLOWING SITE-WIDE EXCAVATION OF SOIL, APPROXIMATELY THREE (3) FEET OF BEDROCK WAS REMOVED ACROSS THE SITE.



BRINKERHOFF
 ENVIRONMENTAL SERVICES, INC.

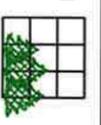


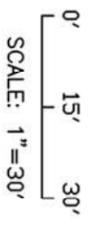
FIGURE 4
 EXCAVATION MAP
 444 10TH AVENUE
 BLOCK 732, LOT 70
 MANHATTAN, NEW YORK

DATE: 3/22/16 JOB NO.: 12BR198 SCALE: 1" = 10'



LEGEND

● - ENDPOINT SAMPLE LOCATION
EP-1



BRINKERHOFF
ENVIRONMENTAL SERVICES, INC.

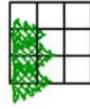
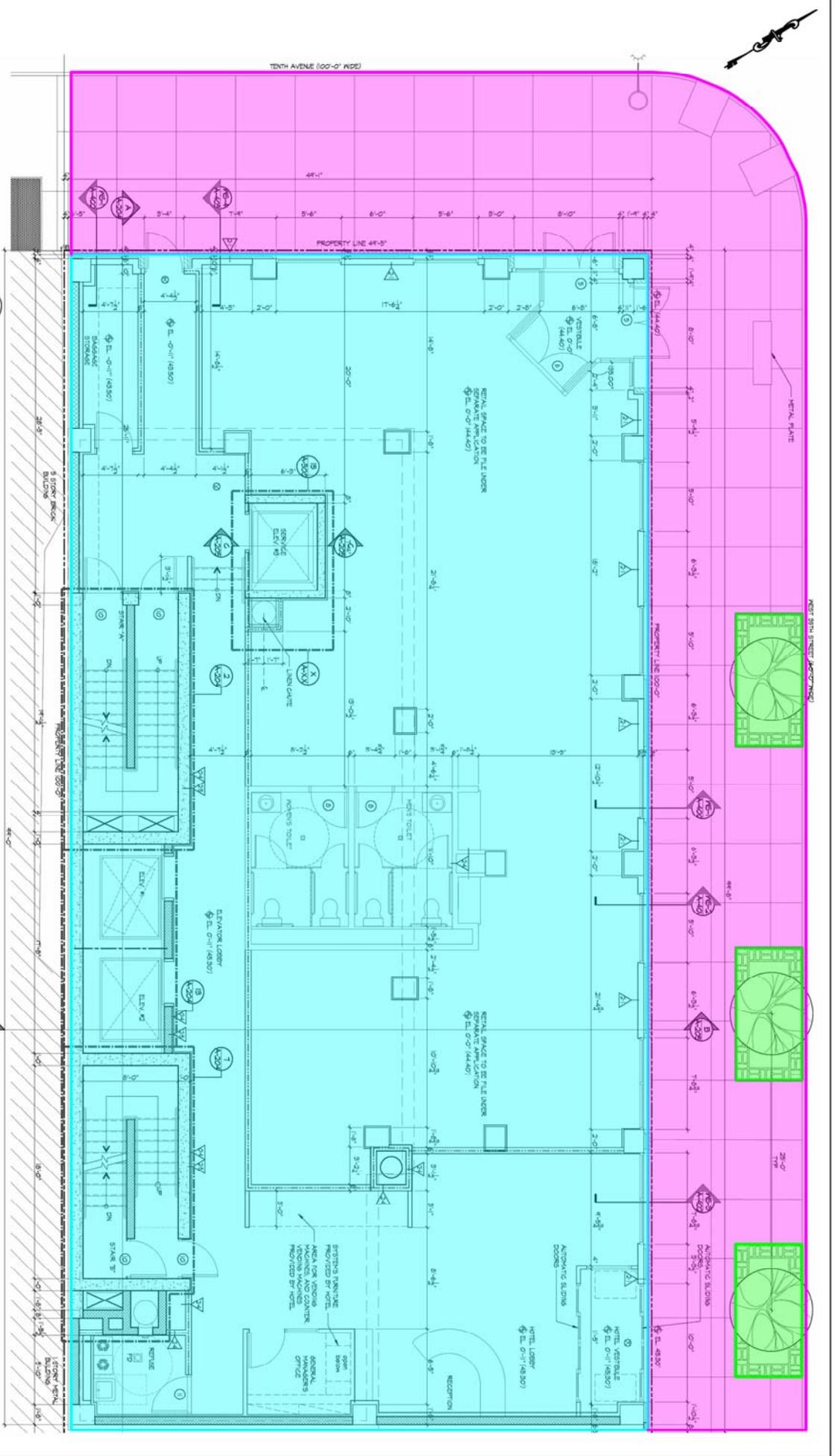


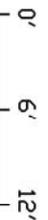
FIGURE 5
ENDPOINT SAMPLE LOCATION MAP
444 10TH AVENUE
BLOCK 732, LOT 70
MANHATTAN, NEW YORK

DATE: 9/1/15 JOB NO.: 12BR198 SCALE: 1" = 30'



LEGEND

- CONCRETE COVER (SIDEWALK, GRAVEL, UNDERLYING SOILS)
- CONCRETE COVER (BUILDING, VAPOR WATERPROOFING BARRIER, GRAVEL, BEDROCK)
- CLEAN FILL (TOPSOIL)



SCALE: 1" = 12'

BRINKERHOFF
 ENVIRONMENTAL SERVICES, INC.

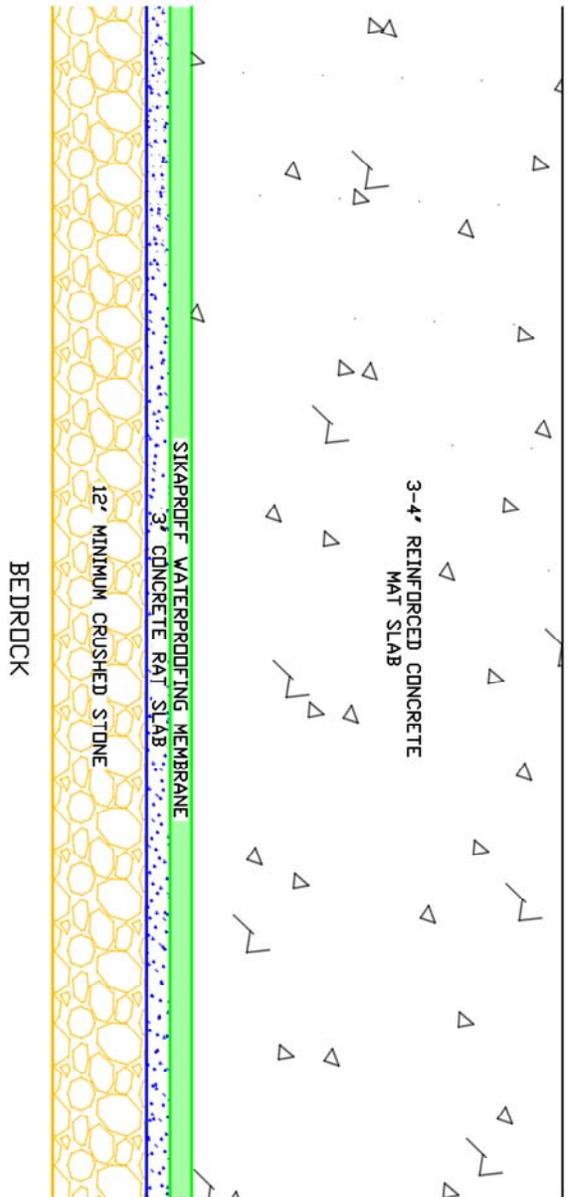
FIGURE 6 - COMPOSITE COVER LOCATION MAP

444 10TH AVENUE
 BLOCK 732, LOT 70
 MANHATTAN, NEW YORK

DATE: 9/28/15

JOB NO.: 12BR198

SCALE: 1" = 12'



BRINKERHOFF
 ENVIRONMENTAL SERVICES, INC.

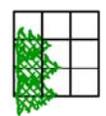
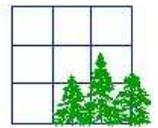


FIGURE 7
 COMPOSITE COVER CROSS-SECTIONAL AS-BUILT DETAIL

444 10TH AVENUE
 BLOCK 732, LOT 70
 MANHATTAN, NEW YORK

DATE: 9/2/15	JOB NO.: 12BR198	SCALE: NTS
--------------	------------------	------------



Tables

Table 1
End Point Sample Results - 8.26.2014
444 10th Ave
Manhattan, New York
Brinkerhoff Project No.: 12BR198

Work Order 1401452				Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
Lab: Accredited Analytical Resources LLC				1401452-01		1401452-02		1401452-02RE1		1401452-03		1401452-03RE1		
Client: JOY CONSTRUCTION CORP. - 444 10th Ave.				EP-1		EP-2		EP-2		EP-3		EP-3		
		Sample Depth (ft bgs):		12 to 12.5		13 to 13.5		13 to 13.5		12 to 12.5		12 to 12.5		
CAS#	Compound	NYRRES	NYURU	08/26/14		08/26/14		08/26/14		08/26/14		08/26/14		
EPA Method SW846 8081/8082 (mg/kg)														
72-54-8	4,4'-DDD	13	0.0033	0.00140	U	0.00153	U	0.00764	U	0.00151	U		0.00148	
72-55-9	4,4'-DDE	8.9	0.0033	0.00140	U	0.0346		0.00764	U	0.00151	U		0.00148	
50-29-3	4,4'-DDT	7.9	0.0033	0.00140	U	0.00153	U	0.00764	U	0.00151	U		0.00148	
309-00-2	Aldrin	0.097	0.005	0.000695	U	0.000759	U	0.00379	U	0.000750	U		0.000733	
319-84-6	alpha-BHC	0.48	0.02	0.000695	U	0.000759	U	0.00379	U	0.000750	U		0.000733	
5103-71-9	alpha-Chlordane	4.2	0.094	0.000695	U	0.000759	U	0.00379	U	0.000750	U		0.000733	
12674-11-2	Aroclor-1016	1	0.1	0.0175	U	0.0191	U	0.0954	U	0.0189	U		0.0184	
11104-28-2	Aroclor-1221	1	0.1	0.0175	U	0.0191	U	0.0954	U	0.0189	U		0.0184	
11141-16-5	Aroclor-1232	1	0.1	0.0175	U	0.0191	U	0.0954	U	0.0189	U		0.0184	
53469-21-9	Aroclor-1242	1	0.1	0.0175	U	0.0191	U	0.0954	U	0.0189	U		0.0184	
12672-29-6	Aroclor-1248	1	0.1	0.0175	U	0.0191	U	0.0954	U	0.0189	U		0.0184	
11097-69-1	Aroclor-1254	1	0.1	0.0175	U	1.55	PE	1.84	D	0.0189	U		0.0184	
11096-82-5	Aroclor-1260	1	0.1	0.0175	U	0.0191	U	0.0954	U	0.0189	U		0.0184	
37324-23-5	Aroclor-1262	NA	NA	0.0175	U	0.0191	U	0.0954	U	0.0189	U		0.0184	
11100-14-4	Aroclor-1268	NA	NA	0.0175	U	0.0191	U	0.0954	U	0.0189	U		0.0184	
319-85-7	beta-BHC	0.36	0.036	0.000695	U	0.000759	U	0.00379	U	0.000750	U		0.000733	
319-86-8	delta-BHC	100	0.04	0.000695	U	0.000759	U	0.00379	U	0.000750	U		0.000733	
60-57-1	Dieldrin	0.2	0.005	0.00140	U	0.00153	U	0.00764	U	0.00151	U		0.00148	
959-98-8	Endosulfan I	24	2.4	0.000695	U	0.000759	U	0.00379	U	0.000750	U		0.000733	
33213-65-9	Endosulfan II	24	2.4	0.00140	U	0.00153	U	0.00764	U	0.00151	U		0.00148	
1031-07-8	Endosulfan sulfate	24	2.4	0.00140	U	0.00153	U	0.00764	U	0.00151	U		0.00148	
72-20-8	Endrin	11	0.014	0.00140	U	0.00487		0.00764	U	0.00151	U		0.00148	
7421-93-4	Endrin aldehyde	NA	NA	0.00140	U	0.00153	U	0.00764	U	0.00151	U		0.00148	
53494-70-5	Endrin ketone	NA	NA	0.00140	U	0.00153	U	0.00764	U	0.00151	U		0.00548	
58-89-9	gamma-BHC [Lindane]	NA	NA	0.000695	U	0.000759	U	0.00379	U	0.000750	U		0.000733	
5566-34-7	gamma-Chlordane	NA	NA	0.000695	U	0.000759	U	0.00379	U	0.000750	U		0.000733	
76-44-8	Heptachlor	2.1	0.042	0.000695	U	0.000759	U	0.00379	U	0.000750	U		0.000733	
1024-57-3	Heptachlor Epoxide	NA	NA	0.000695	U	0.000759	U	0.00379	U	0.000750	U		0.000733	
72-43-5	Methoxychlor	NA	NA	0.00701	U	0.0764		0.0383	U	0.00757	U		0.00739	
8001-35-2	Toxaphene	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U		0.0370	
Semivolatile Organic Compounds EPA Method SW846 8270 (mg/kg)														
120-82-1	1,2,4-Trichlorobenzene	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
95-50-1	1,2-Dichlorobenzene	100	1.1	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
541-73-1	1,3-Dichlorobenzene	49	2.4	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
106-46-7	1,4-Dichlorobenzene	13	1.8	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
95-95-4	2,4,5-Trichlorophenol	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
88-06-2	2,4,6-Trichlorophenol	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
120-83-2	2,4-Dichlorophenol	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
105-67-9	2,4-Dimethylphenol	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
51-28-5	2,4-Dinitrophenol	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
121-14-2	2,4-Dinitrotoluene	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
606-20-2	2,6-Dinitrotoluene	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
91-58-7	2-Chloronaphthalene	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
95-57-8	2-Chlorophenol	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
91-57-6	2-Methylnaphthylene	NA	NA	0.0351	U	0.146	J	0.191	U	0.0378	U	0.189	U	0.0370
95-48-7	2-Methylphenol	100	0.33	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
88-74-4	2-Nitroaniline	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
88-75-5	2-Nitrophenol	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
106-44-5	3 & 4-Methylphenol	100	0.33	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
91-94-1	3,3'-Dichlorobenzidine	NA	NA	0.0874	U	0.0954	U	0.477	U	0.0943	U	0.472	U	0.0921
99-09-2	3-Nitroaniline	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
534-52-1	4,6-Dinitro-2-methylphenol	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
101-55-3	4-Bromophenyl-phenylether	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
59-50-7	4-Chloro-3-methylphenol	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
106-47-8	4-Chloroaniline	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
7005-72-3	4-Chlorophenyl-phenylether	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
100-01-6	4-Nitroaniline	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
100-02-7	4-Nitrophenol	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
83-32-9	Acenaphthene	100	20	0.0351	U	0.482		0.466	JD	0.254		0.241	JD	0.104
208-96-8	Acenaphthylene	100	100	0.0351	U	0.156	J	0.191	U	0.0443	J	0.189	U	0.102
120-12-7	Anthracene	100	100	0.0351	U	1.06		1.00	D	0.799		0.746	JD	0.356
56-55-3	Benzo[a]anthracene	1	1	0.0982	J	2.86		2.75	D	2.34		2.22	D	1.15
50-32-8	Benzo[a]pyrene	1	1	0.0856	J	2.61		2.40	D	1.68		1.59	D	1.00
205-99-2	Benzo[b]fluoranthene	1	1	0.0712	J	3.33		2.20	D	2.03		1.32	D	1.10
191-24-2	Benzo[ghi]perylene	100	100	0.0625	J	0.603		1.82	D	0.369		0.985	D	0.260
207-08-9	Benzo[k]fluoranthene	3.9	0.8	0.0779	J	2.48		1.96	D	1.37		1.33	D	1.07
65-85-0	Benzoic acid	NA	NA	0.0874	U	0.0954	U	0.477	U	0.0943	U	0.472	U	0.0921
100-51-6	Benzyl alcohol	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370
111-91-1	bis(2-chloroethoxy)methane	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370

Table 1
End Point Sample Results - 8.26.2014
444 10th Ave
Manhattan, New York
Brinkerhoff Project No.: 12BR198

Work Order 1401452				Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
Lab: Accredited Analytical Resources LLC				1401452-01		1401452-02		1401452-02RE1		1401452-03		1401452-03RE1	1401452-04		
Client: JOY CONSTRUCTION CORP. - 444 10th Ave.				EP-1		EP-2		EP-2		EP-3		EP-3	EP-4		
		Sample Detph (ft bgs):		12 to 12.5		13 to 13.5		13 to 13.5		12 to 12.5		12 to 12.5	13 to 13.5		
CAS#	Compound	NYRRES	NYURU	08/26/14		08/26/14		08/26/14		08/26/14		08/26/14	08/26/14		
111-44-4	bis(2-chloroethyl)ether	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
39638-32-9	bis(2-chloroisopropyl)ether	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
117-81-7	bis(2-ethylhexyl)phthalate	NA	NA	0.0460	J	0.0701	J	0.191	U	0.0378	U	0.189	U	0.0370	U
85-68-7	Butylbenzylphthalate	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
218-01-9	Chrysene	3.9	1	0.117	J	3.32		2.95	D	2.78		2.44	D	1.30	
84-74-2	Di-n-butyl phthalate	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
117-84-0	Di-n-octyl phthalate	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
53-70-3	Dibenzo(a,h)anthracene	0.33	0.33	0.0351	U	0.334		0.774	JD	0.218		0.362	JD	0.141	J
132-64-9	Dibenzofuran	59	7	0.0351	U	0.224		0.245	JD	0.0909	J	0.189	U	0.0562	J
84-66-2	Diethyl phthalate	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
131-11-3	Dimethylphthalate	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
206-44-0	Fluoranthene	100	100	0.204		5.44	E	5.32	D	4.52		4.37	D	2.17	
86-73-7	Fluorene	100	30	0.0351	U	0.411		0.391	JD	0.202		0.197	JD	0.103	J
118-74-1	Hexachlorobenzene	1.2	0.33	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
87-68-3	Hexachlorobutadiene	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
77-47-4	Hexachlorocyclopentadiene	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
67-72-1	Hexachloroethane	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	0.5	0.0547	J	0.671		1.61	D	0.421		0.797	JD	0.292	
78-59-1	Isophorone	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
621-64-7	N-Nitroso-di-n-propylamine	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
62-75-9	N-Nitrosodimethylamine	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
86-30-6	N-Nitrosodiphenylamine	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
91-20-3	Naphthalene	100	12	0.0351	U	0.302		0.295	JD	0.0378	U	0.189	U	0.0370	U
98-95-3	Nitrobenzene	NA	NA	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
87-86-5	Pentachlorophenol	6.7	0.8	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
85-01-8	Phenanthrene	100	100	0.128	J	4.46		4.33	D	3.59		3.46	D	1.53	
108-95-2	Phenol	100	0.33	0.0351	U	0.0383	U	0.191	U	0.0378	U	0.189	U	0.0370	U
129-00-0	Pyrene	100	100	0.214		6.74	E	5.98	D	6.07	E	5.43	D	2.67	
Total Mercury by SW846 7471 (mg/kg)															
7439-97-6	Mercury	0.81	0.18	0.0789	U	0.951				0.0852	U			0.0832	U
Total Metals by EPA Method SW846 6010B (mg/kg)															
7429-90-5	Aluminum	NA	NA	12100		20300				25000				30200	
7440-36-0	Antimony	NA	NA	6.32	U	6.90	U			6.82	U			6.66	U
7440-38-2	Arsenic	16	13	1.05	U	2.39				2.29				1.26	
7440-39-3	Barium	400	350	148		636				348				554	
7440-41-7	Beryllium	72	7.2	1.15		0.908				1.71				1.40	
7440-43-9	Cadmium	4.3	2.5	0.526	U	0.917				1.27				1.80	
7440-70-2	Calcium	NA	NA	2480		13100				6490				7450	
7440-47-3	Chromium	NA	NA	21.1		30.4				16.0				42.5	
7440-48-4	Cobalt	NA	NA	12.1		17.4				27.6				29.5	
7440-50-8	Copper	270	50	37.5		32.4				143				98.4	
7439-89-6	Iron	NA	NA	26700	D	38300	D			53100	D			61100	D
7439-92-1	Lead	400	63	21.4		413				40.6				79.5	
7439-95-4	Magnesium	NA	NA	8120		13600				16500				20500	
7439-96-5	Manganese	2000	1600	558		500				633				659	
7440-02-0	Nickel	310	30	17.6		21.6				26.5				28.1	
9/7/7440	Potassium	NA	NA	7640		12100				14000				20400	
7782-49-2	Selenium	180	3.9	4.21	U	4.60	U			4.55	U			4.44	U
7440-22-4	Silver	180	2	1.05	U	1.15	U			1.14	U			1.11	U
7440-23-5	Sodium	NA	NA	322		506				464				1060	
7440-28-0	Thallium	NA	NA	1.58	U	2.67	J			3.91				3.84	
7440-62-2	Vanadium	NA	NA	35.2		105				175				173	
7440-66-6	Zinc	10000	109	53.8		262				124				137	
Volatile Organic Compounds EPA Method SW846 8260 (mg/kg)															
630-20-6	1,1,1,2-Tetrachloroethane	NA	NA	0.00105	U	0.00115	U			0.00114	U			0.00111	U
71-55-6	1,1,1-Trichloroethane	100	0.68	0.00105	U	0.00115	U			0.00114	U			0.00111	U
79-34-5	1,1,2,2-Tetrachloroethane	NA	NA	0.00105	U	0.00115	U			0.00114	U			0.00111	U
79-00-5	1,1,2-Trichloroethane	NA	NA	0.00105	U	0.00115	U			0.00114	U			0.00111	U
75-34-3	1,1-Dichloroethane	26	0.27	0.00105	U	0.00115	U			0.00114	U			0.00111	U
75-35-4	1,1-Dichloroethene	100	0.33	0.00105	U	0.00115	U			0.00114	U			0.00111	U
563-58-6	1,1-Dichloropropene	NA	NA	0.00105	U	0.00115	U			0.00114	U			0.00111	U
87-61-6	1,2,3-Trichlorobenzene	NA	NA	0.00105	U	0.00115	U			0.00114	U			0.00111	U
96-18-4	1,2,3-Trichloropropane	NA	NA	0.00105	U	0.00115	U			0.00114	U			0.00111	U
120-82-1	1,2,4-Trichlorobenzene	NA	NA	0.00105	U	0.00115	U			0.00114	U			0.00111	U
95-63-6	1,2,4-Trimethylbenzene	52	NA	0.00105	U	0.00115	U			0.00114	U			0.00111	U
96-12-8	1,2-Dibromo-3-chloropropane	NA	NA	0.00105	U	0.00115	U			0.00114	U			0.00111	U
106-93-4	1,2-Dibromoethane	NA	NA	0.00105	U	0.00115	U			0.00114	U			0.00111	U
95-50-1	1,2-Dichlorobenzene	100	1.1	0.00105	U	0.00115	U			0.00114	U			0.00111	U
107-06-2	1,2-Dichloroethane	3.1	0.02	0.00105	U	0.00115	U			0.00114	U			0.00111	U
78-87-5	1,2-Dichloropropane	NA	NA	0.00105	U	0.00115	U			0.00114	U			0.00111	U

Table 1
End Point Sample Results - 8.26.2014
444 10th Ave
Manhattan, New York
Brinkerhoff Project No.: 12BR198

Work Order 1401452				Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
Lab: Accredited Analytical Resources LLC				1401452-01		1401452-02		1401452-02RE1		1401452-03		1401452-03RE1	1401452-04	
Client: JOY CONSTRUCTION CORP. - 444 10th Ave.				EP-1		EP-2		EP-2		EP-3		EP-3	EP-4	
Sample Detph (ft bgs):				12 to 12.5		13 to 13.5		13 to 13.5		12 to 12.5		12 to 12.5	13 to 13.5	
CAS#	Compound	NYRRES	NYURU	08/26/14		08/26/14		08/26/14		08/26/14		08/26/14	08/26/14	
108-67-8	1,3,5-Trimethylbenzene	NA	8.4	0.00105	U	0.00115	U			0.00114	U		0.00111	U
541-73-1	1,3-Dichlorobenzene	49	2.4	0.00105	U	0.00115	U			0.00114	U		0.00111	U
142-28-9	1,3-Dichloropropane	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
106-46-7	1,4-Dichlorobenzene	13	1.8	0.00105	U	0.00115	U			0.00114	U		0.00111	U
590-20-7	2,2-Dichloropropane	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
78-93-3	2-Butanone	100	0.12	0.00105	U	0.00115	U			0.00114	U		0.00111	U
110-75-8	2-Chloroethyl vinyl ether	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
95-49-8	2-Chlorotoluene	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
591-78-6	2-Hexanone	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
106-43-4	4-Chlorotoluene	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
108-10-1	4-Methyl-2-pentanone	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
67-64-1	Acetone	100	0.05	0.00267	B	0.00291	B			0.00298	B		0.00434	B
107-02-8	Acrolein	NA	NA	0.00632	U	0.00690	U			0.00682	U		0.00666	U
107-13-1	Acrylonitrile	NA	NA	0.00211	U	0.00230	U			0.00227	U		0.00222	U
71-43-2	Benzene	4.8	0.06	0.00105	U	0.00115	U			0.00114	U		0.00111	U
108-86-1	Bromobenzene	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
74-97-5	Bromochloromethane	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
75-27-4	Bromodichloromethane	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
75-25-2	Bromoform	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
74-83-9	Bromomethane	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
75-15-0	Carbon disulfide	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
56-23-5	Carbon Tetrachloride	2.4	0.76	0.00105	U	0.00115	U			0.00114	U		0.00111	U
108-90-7	Chlorobenzene	100	1.1	0.00105	U	0.00115	U			0.00114	U		0.00111	U
75-00-3	Chloroethane	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
67-66-3	Chloroform	49	0.37	0.00105	U	0.00115	U			0.00114	U		0.00111	U
74-87-3	Chloromethane	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
156-59-4	cis-1,2-Dichloroethene	100	0.25	0.00105	U	0.00115	U			0.00114	U		0.00111	U
10061-01-5	cis-1,3-Dichloropropene	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
124-48-1	Dibromochloromethane	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
74-95-3	Dibromomethane	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
75-71-8	Dichlorodifluoromethane	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
100-41-4	Ethylbenzene	41	1	0.00105	U	0.00115	U			0.00114	U		0.00111	U
87-68-3	Hexachlorobutadiene	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
98-82-8	Isopropylbenzene	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
108-38-3/106-	m,p-Xylenes	50	0.13	0.00211	U	0.00230	U			0.00227	U		0.00222	U
75-09-2	Methylene Chloride	100	0.05	0.00274	B	0.00589	B			0.00641	B		0.00376	B
104-51-8	n-Butyl Benzene	NA	12	0.00105	U	0.00115	U			0.00114	U		0.00111	U
103-65-1	n-Propyl Benzene	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
95-47-6	o-Xylene	50	0.13	0.00211	U	0.00230	U			0.00227	U		0.00222	U
99-87-6	p-Isopropyltoluene	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
135-98-8	sec-Butylbenzene	100	11	0.00105	U	0.00115	U			0.00114	U		0.00111	U
100-42-5	Styrene	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
98-06-6	tert-Butylbenzene	100	5.9	0.00105	U	0.00115	U			0.00114	U		0.00111	U
127-18-4	Tetrachloroethene	19	1.3	0.00105	U	0.00115	U			0.00114	U		0.00111	U
108-88-3	Toluene	100	0.7	0.00105	U	0.00115	U			0.00114	U		0.00111	U
156-60-5	trans-1,2-Dichloroethene	100	0.19	0.00105	U	0.00115	U			0.00114	U		0.00111	U
10061-02-6	trans-1,3-Dichloropropene	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
79-01-6	Trichloroethene	21	0.47	0.00105	U	0.00115	U			0.00114	U		0.00111	U
75-69-4	Trichlorofluoromethane	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
108-05-4	Vinyl acetate	NA	NA	0.00105	U	0.00115	U			0.00114	U		0.00111	U
75-01-4	Vinyl chloride	0.9	0.02	0.00105	U	0.00115	U			0.00114	U		0.00111	U
Wet Chemistry (%)														
	Percent Solids	NA	NA	95.0		87.0				88.0			90.1	
Wet Chemistry (mg/kg)														
	Cyanide (total)	27	27	1.05	U	1.15	U			1.14	U		1.11	U

Notes:

NYCOM = NY Commercial (Table 375-6.8(b) Dec. 2006)
 NYRES = NY Residential (Table 375-6.8(b) Dec. 2006)
 NYRRES = NY Restricted Residential (Table 375-6.8(b) Dec. 2006)
 NYURU = NY Unrestricted (Table 375-6.8(b) Dec. 2006)
 RED = exceeds NYURU
 exceeds NYRRES
 ft bgs = feet below grade surface

Qualifiers:

E - Concentration exceeds highest calibration standard
 B - Indicates compound found in associated blank
 D - Indicates result is based on a dilution
 H - Alternate peak selection upon analytical review
 J - Indicates estimated value for TICs and all results when detected below the RL
 U - Indicates compound analyzed for but not detected
 P - This flag is used for a pesticide/aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported.

Table 2
End Point Sample Results - 8/28/2014
444 10th Ave
Manhattan, New York
Brinkerhoff Project No: 12BR198

Work Order 1401480				Result	Q	Result	Q	Result	Q
Lab: Accredited Analytical Resources LLC				1401480-01		1401480-02		1401480-02RE1	
Client: JOY CONSTRUCTION CORP. - 444 10th Ave.				EP-5		EP-6		EP-6	
		Sample Depth (ft bgs):		13.5 to 14		12 to 12.5		12 to 12.5	
CAS#	Compound	NYRRES	NYURU	08/28/14		08/28/14		08/28/14	
EPA Method SW846 8081/8082 (mg/kg)									
72-54-8	4,4'-DDD	13	0.0033	0.00143	U	0.00150	U		
72-55-9	4,4'-DDE	8.9	0.0033	0.00143	U	0.00150	U		
50-29-3	4,4'-DDT	7.9	0.0033	0.00143	U	0.00259	P		
309-00-2	Aldrin	0.097	0.005	0.000709	U	0.000742	U		
319-84-6	alpha-BHC	0.48	0.02	0.000709	U	0.000742	U		
5103-71-9	alpha-Chlordane	4.2	0.094	0.000709	U	0.000742	U		
12674-11-2	Aroclor-1016	1	0.1	0.0178	U	0.0187	U		
11104-28-2	Aroclor-1221	1	0.1	0.0178	U	0.0187	U		
11141-16-5	Aroclor-1232	1	0.1	0.0178	U	0.0187	U		
53469-21-9	Aroclor-1242	1	0.1	0.0178	U	0.0187	U		
12672-29-6	Aroclor-1248	1	0.1	0.0178	U	0.0187	U		
11097-69-1	Aroclor-1254	1	0.1	0.0178	U	0.0187	U		
11096-82-5	Aroclor-1260	1	0.1	0.0178	U	0.0187	U		
37324-23-5	Aroclor-1262	NA	NA	0.0178	U	0.0187	U		
11100-14-4	Aroclor-1268	NA	NA	0.0178	U	0.0187	U		
319-85-7	beta-BHC	0.36	0.036	0.000709	U	0.000742	U		
319-86-8	delta-BHC	100	0.04	0.000709	U	0.000742	U		
60-57-1	Dieldrin	0.2	0.005	0.00143	U	0.00150	U		
959-98-8	Endosulfan I	24	2.4	0.000709	U	0.000742	U		
33213-65-9	Endosulfan II	24	2.4	0.00143	U	0.00150	U		
1031-07-8	Endosulfan sulfate	24	2.4	0.00143	U	0.00150	U		
72-20-8	Endrin	11	0.014	0.00143	U	0.00150	U		
7421-93-4	Endrin aldehyde	NA	NA	0.00143	U	0.00150	U		
53494-70-5	Endrin ketone	NA	NA	0.00143	U	0.00150	U		
58-89-9	gamma-BHC [Lindane]	NA	NA	0.000709	U	0.000742	U		
5566-34-7	gamma-Chlordane	NA	NA	0.000709	U	0.000742	U		
76-44-8	Heptachlor	2.1	0.042	0.000709	U	0.000742	U		
1024-57-3	Heptachlor Epoxide	NA	NA	0.000709	U	0.000742	U		
72-43-5	Methoxychlor	NA	NA	0.00715	U	0.00749	U		
8001-35-2	Toxaphene	NA	NA	0.0358	U	0.0375	U		
Semivolatile Organic Compounds EPA Method SW846 8270 (mg/kg)									
120-82-1	1,2,4-Trichlorobenzene	NA	NA	0.0358	U	0.0375	U	0.375	U
95-50-1	1,2-Dichlorobenzene	100	1.1	0.0358	U	0.0375	U	0.375	U
541-73-1	1,3-Dichlorobenzene	49	2.4	0.0358	U	0.0375	U	0.375	U
106-46-7	1,4-Dichlorobenzene	13	1.8	0.0358	U	0.0375	U	0.375	U
95-95-4	2,4,5-Trichlorophenol	NA	NA	0.0358	U	0.0375	U	0.375	U
88-06-2	2,4,6-Trichlorophenol	NA	NA	0.0358	U	0.0375	U	0.375	U
120-83-2	2,4-Dichlorophenol	NA	NA	0.0358	U	0.0375	U	0.375	U
105-67-9	2,4-Dimethylphenol	NA	NA	0.0358	U	0.0375	U	0.375	U
51-28-5	2,4-Dinitrophenol	NA	NA	0.0358	U	0.0375	U	0.375	U
121-14-2	2,4-Dinitrotoluene	NA	NA	0.0358	U	0.0375	U	0.375	U
606-20-2	2,6-Dinitrotoluene	NA	NA	0.0358	U	0.0375	U	0.375	U
91-58-7	2-Chloronaphthalene	NA	NA	0.0358	U	0.0375	U	0.375	U
95-57-8	2-Chlorophenol	NA	NA	0.0358	U	0.0375	U	0.375	U
91-57-6	2-Methylnaphthylene	NA	NA	0.0358	U	0.459		0.431	JD
95-48-7	2-Methylphenol	100	0.33	0.0358	U	0.0375	U	0.375	U
88-74-4	2-Nitroaniline	NA	NA	0.0358	U	0.0375	U	0.375	U
88-75-5	2-Nitrophenol	NA	NA	0.0358	U	0.0375	U	0.375	U
106-44-5	3 & 4-Methylphenol	100	0.33	0.0358	U	0.0375	U	0.375	U
91-94-1	3,3'-Dichlorobenzidine	NA	NA	0.0892	U	0.0934	U	0.934	U
99-09-2	3-Nitroaniline	NA	NA	0.0358	U	0.0375	U	0.375	U
534-52-1	4,6-Dinitro-2-methylphenol	NA	NA	0.0358	U	0.0375	U	0.375	U
101-55-3	4-Bromophenyl-phenylether	NA	NA	0.0358	U	0.0375	U	0.375	U

Table 2
 End Point Sample Results - 8/28/2014
 444 10th Ave
 Manhattan, New York
 Brinkerhoff Project No: 12BR198

Work Order 1401480				Result	Q	Result	Q	Result	Q
Lab: Accredited Analytical Resources LLC				1401480-01		1401480-02		1401480-02RE1	
Client: JOY CONSTRUCTION CORP. - 444 10th Ave.				EP-5		EP-6		EP-6	
		Sample Depth (ft bgs):		13.5 to 14		12 to 12.5		12 to 12.5	
CAS#	Compound	NYRRES	NYURU	08/28/14		08/28/14		08/28/14	
59-50-7	4-Chloro-3-methylphenol	NA	NA	0.0358	U	0.0375	U	0.375	U
106-47-8	4-Chloroaniline	NA	NA	0.0358	U	0.0375	U	0.375	U
7005-72-3	4-Chlorophenyl-phenylether	NA	NA	0.0358	U	0.0375	U	0.375	U
100-01-6	4-Nitroaniline	NA	NA	0.0358	U	0.0375	U	0.375	U
100-02-7	4-Nitrophenol	NA	NA	0.0358	U	0.0375	U	0.375	U
83-32-9	Acenaphthene	100	20	0.0895	J	0.771		0.739	JD
208-96-8	Acenaphthylene	100	100	0.0390	J	0.132	J	0.375	U
120-12-7	Anthracene	100	100	0.241		1.58		1.46	JD
56-55-3	Benzo[a]anthracene	1	1	0.690		4.22		4.24	D
50-32-8	Benzo[a]pyrene	1	1	0.582		3.66		3.31	D
205-99-2	Benzo[b]fluoranthene	1	1	0.687		5.10	E	2.88	D
191-24-2	Benzo[ghi]perylene	100	100	0.149	J	0.688		2.32	D
207-08-9	Benzo[k]fluoranthene	3.9	0.8	0.612		3.69		3.07	D
65-85-0	Benzoic acid	NA	NA	0.0892	U	0.0934	U	0.934	U
100-51-6	Benzyl alcohol	NA	NA	0.0358	U	0.0375	U	0.375	U
111-91-1	bis(2-chloroethoxy)methane	NA	NA	0.0358	U	0.0375	U	0.375	U
111-44-4	bis(2-chloroethyl)ether	NA	NA	0.0358	U	0.0375	U	0.375	U
39638-32-9	bis(2-chloroisopropyl)ether	NA	NA	0.0358	U	0.0375	U	0.375	U
117-81-7	bis(2-ethylhexyl)phthalate	NA	NA	0.0358	U	0.0375	U	0.375	U
85-68-7	Butylbenzylphthalate	NA	NA	0.0358	U	0.0375	U	0.375	U
218-01-9	Chrysene	3.9	1	0.799		4.95	E	4.48	D
84-74-2	Di-n-butyl phthalate	NA	NA	0.0358	U	0.0375	U	0.375	U
117-84-0	Di-n-octyl phthalate	NA	NA	0.0358	U	0.0375	U	0.375	U
53-70-3	Dibenzo(a,h)anthracene	0.33	0.33	0.0838	J	0.429		1.10	JD
132-64-9	Dibenzofuran	59	7	0.0422	J	0.420		0.442	JD
84-66-2	Diethyl phthalate	NA	NA	0.0358	U	0.0375	U	0.375	U
131-11-3	Dimethylphthalate	NA	NA	0.0358	U	0.0375	U	0.375	U
206-44-0	Fluoranthene	100	100	1.38		7.84	E	7.70	D
86-73-7	Fluorene	100	30	0.0755	J	0.732		0.694	JD
118-74-1	Hexachlorobenzene	1.2	0.33	0.0358	U	0.0375	U	0.375	U
87-68-3	Hexachlorobutadiene	NA	NA	0.0358	U	0.0375	U	0.375	U
77-47-4	Hexachlorocyclopentadiene	NA	NA	0.0358	U	0.0375	U	0.375	U
67-72-1	Hexachloroethane	NA	NA	0.0358	U	0.0375	U	0.375	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	0.5	0.168	J	0.831		2.11	D
78-59-1	Isophorone	NA	NA	0.0358	U	0.0375	U	0.375	U
621-64-7	N-Nitroso-di-n-propylamine	NA	NA	0.0358	U	0.0375	U	0.375	U
62-75-9	N-Nitrosodimethylamine	NA	NA	0.0358	U	0.0375	U	0.375	U
86-30-6	N-Nitrosodiphenylamine	NA	NA	0.0358	U	0.0375	U	0.375	U
91-20-3	Naphthalene	100	12	0.0376	J	0.813		0.791	JD
98-95-3	Nitrobenzene	NA	NA	0.0358	U	0.0375	U	0.375	U
87-86-5	Pentachlorophenol	6.7	0.8	0.0358	U	0.0375	U	0.375	U
85-01-8	Phenanthrene	100	100	1.15		7.06	E	6.83	D
108-95-2	Phenol	100	0.33	0.0358	U	0.0375	U	0.375	U
129-00-0	Pyrene	100	100	1.65		10.6	E	8.75	D
Total Mercury by SW846 7471 (mg/kg)									
7439-97-6	Mercury	0.81	0.18	0.248		0.778			
Total Metals by EPA Method SW846 6010B (mg/kg)									
7429-90-5	Aluminum	NA	NA	5860		10200			
7440-36-0	Antimony	NA	NA	6.44	U	6.75	U		
7440-38-2	Arsenic	16	13	1.44		4.31			
7440-39-3	Barium	400	350	289		385			
7440-41-7	Beryllium	72	7.2	0.798		0.562	U		
7440-43-9	Cadmium	4.3	2.5	0.537	U	0.747			
7440-70-2	Calcium	NA	NA	9100		18500			

Table 2
 End Point Sample Results - 8/28/2014
 444 10th Ave
 Manhattan, New York
 Brinkerhoff Project No: 12BR198

Work Order 1401480				Result	Q	Result	Q	Result	Q
Lab: Accredited Analytical Resources LLC				1401480-01		1401480-02		1401480-02RE1	
Client: JOY CONSTRUCTION CORP. - 444 10th Ave.				EP-5		EP-6		EP-6	
Sample Depth (ft bgs):				13.5 to 14		12 to 12.5		12 to 12.5	
CAS#	Compound	NYRRES	NYURU	08/28/14		08/28/14		08/28/14	
7440-47-3	Chromium	NA	NA	6.98		17.3			
7440-48-4	Cobalt	NA	NA	19.9		10.8			
7440-50-8	Copper	270	50	166		43.9			
7439-89-6	Iron	NA	NA	20600	D	24200	D		
7439-92-1	Lead	400	63	133		790			
7439-95-4	Magnesium	NA	NA	2740		6790			
7439-96-5	Manganese	2000	1600	352		328			
7440-02-0	Nickel	310	30	12.8		18.0			
9/7/7440	Potassium	NA	NA	1960		6750			
7782-49-2	Selenium	180	3.9	4.30	U	4.50	U		
7440-22-4	Silver	180	2	1.07	U	1.12	U		
7440-23-5	Sodium	NA	NA	366		276			
7440-28-0	Thallium	NA	NA	1.61	U	1.69	U		
7440-62-2	Vanadium	NA	NA	52.8		42.1			
7440-66-6	Zinc	10000	109	104		267			
Volatile Organic Compounds EPA Method SW846 8260 (mg/kg)									
630-20-6	1,1,1,2-Tetrachloroethane	NA	NA	0.00107	U	0.00112	U		
71-55-6	1,1,1-Trichloroethane	100	0.68	0.00107	U	0.00112	U		
79-34-5	1,1,2,2-Tetrachloroethane	NA	NA	0.00107	U	0.00112	U		
79-00-5	1,1,2-Trichloroethane	NA	NA	0.00107	U	0.00112	U		
75-34-3	1,1-Dichloroethane	26	0.27	0.00107	U	0.00112	U		
75-35-4	1,1-Dichloroethene	100	0.33	0.00107	U	0.00112	U		
563-58-6	1,1-Dichloropropene	NA	NA	0.00107	U	0.00112	U		
87-61-6	1,2,3-Trichlorobenzene	NA	NA	0.00107	U	0.00112	U		
96-18-4	1,2,3-Trichloropropane	NA	NA	0.00107	U	0.00112	U		
120-82-1	1,2,4-Trichlorobenzene	NA	NA	0.00107	U	0.00112	U		
95-63-6	1,2,4-Trimethylbenzene	52	NA	0.00107	U	0.00112	U		
96-12-8	1,2-Dibromo-3-chloropropane	NA	NA	0.00107	U	0.00112	U		
106-93-4	1,2-Dibromoethane	NA	NA	0.00107	U	0.00112	U		
95-50-1	1,2-Dichlorobenzene	100	1.1	0.00107	U	0.00112	U		
107-06-2	1,2-Dichloroethane	3.1	0.02	0.00107	U	0.00112	U		
78-87-5	1,2-Dichloropropane	NA	NA	0.00107	U	0.00112	U		
108-67-8	1,3,5-Trimethylbenzene	NA	8.4	0.00107	U	0.00112	U		
541-73-1	1,3-Dichlorobenzene	49	2.4	0.00107	U	0.00112	U		
142-28-9	1,3-Dichloropropane	NA	NA	0.00107	U	0.00112	U		
106-46-7	1,4-Dichlorobenzene	13	1.8	0.00107	U	0.00112	U		
590-20-7	2,2-Dichloropropane	NA	NA	0.00107	U	0.00112	U		
78-93-3	2-Butanone	100	0.12	0.00107	U	0.00112	U		
110-75-8	2-Chloroethyl vinyl ether	NA	NA	0.00107	U	0.00112	U		
95-49-8	2-Chlorotoluene	NA	NA	0.00107	U	0.00112	U		
591-78-6	2-Hexanone	NA	NA	0.00107	U	0.00112	U		
106-43-4	4-Chlorotoluene	NA	NA	0.00107	U	0.00112	U		
108-10-1	4-Methyl-2-pentanone	NA	NA	0.00107	U	0.00112	U		
67-64-1	Acetone	100	0.05	0.00300	B	0.00245	B		
107-02-8	Acrolein	NA	NA	0.00644	U	0.00675	U		
107-13-1	Acrylonitrile	NA	NA	0.00215	U	0.00225	U		
71-43-2	Benzene	4.8	0.06	0.00107	U	0.00112	U		
108-86-1	Bromobenzene	NA	NA	0.00107	U	0.00112	U		
74-97-5	Bromochloromethane	NA	NA	0.00107	U	0.00112	U		
75-27-4	Bromodichloromethane	NA	NA	0.00107	U	0.00112	U		
75-25-2	Bromoform	NA	NA	0.00107	U	0.00112	U		
74-83-9	Bromomethane	NA	NA	0.00107	U	0.00112	U		
75-15-0	Carbon disulfide	NA	NA	0.00107	U	0.00112	U		
56-23-5	Carbon Tetrachloride	2.4	0.76	0.00107	U	0.00112	U		

Table 2
 End Point Sample Results - 8/28/2014
 444 10th Ave
 Manhattan, New York
 Brinkerhoff Project No: 12BR198

Work Order 1401480			Result	Q	Result	Q	Result	Q
Lab: Accredited Analytical Resources LLC			1401480-01		1401480-02		1401480-02RE1	
Client: JOY CONSTRUCTION CORP. - 444 10th Ave.			EP-5		EP-6		EP-6	
Sample Depth (ft bgs):			13.5 to 14		12 to 12.5		12 to 12.5	
CAS#	Compound	NYRRES	NYURU	08/28/14		08/28/14		08/28/14
108-90-7	Chlorobenzene	100	1.1	0.00107	U	0.00112	U	
75-00-3	Chloroethane	NA	NA	0.00107	U	0.00112	U	
67-66-3	Chloroform	49	0.37	0.00107	U	0.00112	U	
74-87-3	Chloromethane	NA	NA	0.00107	U	0.00112	U	
156-59-4	cis-1,2-Dichloroethene	100	0.25	0.00107	U	0.00112	U	
10061-01-5	cis-1,3-Dichloropropene	NA	NA	0.00107	U	0.00112	U	
124-48-1	Dibromochloromethane	NA	NA	0.00107	U	0.00112	U	
74-95-3	Dibromomethane	NA	NA	0.00107	U	0.00112	U	
75-71-8	Dichlorodifluoromethane	NA	NA	0.00107	U	0.00112	U	
100-41-4	Ethylbenzene	41	1	0.00107	U	0.00112	U	
87-68-3	Hexachlorobutadiene	NA	NA	0.00107	U	0.00112	U	
98-82-8	Isopropylbenzene	NA	NA	0.00107	U	0.00112	U	
108-38-3/106-	m,p-Xylenes	50	0.13	0.00215	U	0.00225	U	
75-09-2	Methylene Chloride	100	0.05	0.00431	B	0.00287	B	
104-51-8	n-Butyl Benzene	NA	12	0.00107	U	0.00112	U	
103-65-1	n-Propyl Benzene	NA	NA	0.00107	U	0.00112	U	
95-47-6	o-Xylene	50	0.13	0.00215	U	0.00225	U	
99-87-6	p-Isopropyltoluene	NA	NA	0.00107	U	0.00112	U	
135-98-8	sec-Butylbenzene	100	11	0.00107	U	0.00112	U	
100-42-5	Styrene	NA	NA	0.00107	U	0.00112	U	
98-06-6	tert-Butylbenzene	100	5.9	0.00107	U	0.00112	U	
127-18-4	Tetrachloroethene	19	1.3	0.00107	U	0.00112	U	
108-88-3	Toluene	100	0.7	0.00107	U	0.00112	U	
156-60-5	trans-1,2-Dichloroethene	100	0.19	0.00107	U	0.00112	U	
10061-02-6	trans-1,3-Dichloropropene	NA	NA	0.00107	U	0.00112	U	
79-01-6	Trichloroethene	21	0.47	0.00107	U	0.00112	U	
75-69-4	Trichlorofluoromethane	NA	NA	0.00107	U	0.00112	U	
108-05-4	Vinyl acetate	NA	NA	0.00107	U	0.00112	U	
75-01-4	Vinyl chloride	0.9	0.02	0.00107	U	0.00112	U	
Wet Chemistry (%)								
	Percent Solids	NA	NA	93.1		88.9		
Wet Chemistry (mg/kg)								
	Cyanide (total)	27	27	1.07	U	1.12	U	

Notes:

NYCOM = NY Commercial (Table 375-6.8(b) Dec. 2006)
 NYRES = NY Residential (Table 375-6.8(b) Dec. 2006)
 NYRRES = NY Restricted Residential (Table 375-6.8(b) Dec. 2006)
 NYURU = NY Unrestricted (Table 375-6.8(b) Dec. 2006)
RED = exceeds NYURU

 exceeds NYRRES
 ft bgs = feet below grade surface

Qualifiers:

E - Concentration exceeds highest calibration standard
 B - Indicates compound found in associated blank
 D - Indicates result is based on a dilution
 H - Alternate peak selection upon analytical review
 J - Indicates estimated value for TICs and all results when detected below the RL
 U - Indicates compound analyzed for but not detected
 P - This flag is used for a pesticide/aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported.

**Table 3
Waste Disposal Tracking Log Summary
444 Tenth Avenue
Manhattan, New York
Brinkerhoff Project No: 12BR198**

Load Counter	Date	Trucking Company	Plate #	Truck #	Manifest #	Weight Ticket #	Material Type	Disposal Facility	Tons	Comments
1	7/14/2014	Jencar	AP573W /NJ	72	1	362778	Non-Hazardous Soil	Bayshore Recycling Corp.	26.18	
2	7/14/2014	Jencar	AR621C /NJ	67	2	362795	Non-Hazardous Soil	Bayshore Recycling Corp.	28.09	
3	7/14/2014	RJT	AP249P /NJ	77	3	362854	Non-Hazardous Soil	Bayshore Recycling Corp.	33.09	
4	7/14/2014	Juqila	AP159W /NJ	14	4	362861	Non-Hazardous Soil	Bayshore Recycling Corp.	31.4	
5	7/14/2014	Sinai	AP648N /NJ	33	5	362879	Non-Hazardous Soil	Bayshore Recycling Corp.	27.83	
6	7/14/2014	Sinai	AR669B /NJ	77	6	362874	Non-Hazardous Soil	Bayshore Recycling Corp.	27.94	
7	7/14/2014	Sinai	AP573Y /NJ	144	7	362872	Non-Hazardous Soil	Bayshore Recycling Corp.	25.65	
8	7/14/2014	Juancho	AP183Z /NJ	2205	8	362871	Non-Hazardous Soil	Bayshore Recycling Corp.	31.63	
9	7/14/2014	Jencar	AP552R /NJ	70	9	362876	Non-Hazardous Soil	Bayshore Recycling Corp.	29.05	
10	7/14/2014	Jencar	AN509W /NJ	71	10	362878	Non-Hazardous Soil	Bayshore Recycling Corp.	27.25	
11	7/14/2014	Jencar	AP812A /NJ	8	11	362893	Non-Hazardous Soil	Bayshore Recycling Corp.	23.64	
12	7/14/2014	Jencar	AP537W /NJ	77	12	362900	Non-Hazardous Soil	Bayshore Recycling Corp.	27.01	
13	7/14/2014	Jencar	AR621C /NJ	67	13	362907	Non-Hazardous Soil	Bayshore Recycling Corp.	28.36	
14	7/14/2014	RJT	AP249P /NJ	77	14	362951	Non-Hazardous Soil	Bayshore Recycling Corp.	34.5	
15	7/14/2014	Juqila	AP159W /NJ	14	15	362967	Non-Hazardous Soil	Bayshore Recycling Corp.	32.94	
16	7/14/2014	Sinai	AP573Y /NJ	144	16	362982	Non-Hazardous Soil	Bayshore Recycling Corp.	29.64	
17	7/14/2014	Sinai	AR669B /NJ	77	17	362987	Non-Hazardous Soil	Bayshore Recycling Corp.	28.01	
18	7/14/2014	Sinai	AR648H /NJ	33	18	362992	Non-Hazardous Soil	Bayshore Recycling Corp.	27.05	
19	7/14/2014	Juancho	AP183Z /NJ	2205	19	362997	Non-Hazardous Soil	Bayshore Recycling Corp.	34.71	
20	7/14/2014	Jencar	AP552R /NJ	70	20	363005	Non-Hazardous Soil	Bayshore Recycling Corp.	28.63	
21	7/14/2014	Jencar	AP812A /NJ	68	21	363012	Non-Hazardous Soil	Bayshore Recycling Corp.	30.76	
22	7/14/2014	Jencar	AR621C /NJ	67	22A	363027	Non-Hazardous Soil	Bayshore Recycling Corp.	30.5	
23	7/14/2014	Jencar	AP573W /NJ	72	22B	363020	Non-Hazardous Soil	Bayshore Recycling Corp.	31.39	
24	7/14/2014	RJT	AP249P /NJ	77	23	363053	Non-Hazardous Soil	Bayshore Recycling Corp.	35.04	
25	7/14/2014	Jaquila	AP159W /NJ	14	24	363066	Non-Hazardous Soil	Bayshore Recycling Corp.	33.75	
26	7/14/2014	Sinai	AP573Y /NJ	444	25	363068	Non-Hazardous Soil	Bayshore Recycling Corp.	29.66	
27	7/14/2014	Jencar	AR648H /NJ	33	26	363098	Non-Hazardous Soil	Bayshore Recycling Corp.	28.66	
28	7/14/2014	Jencar	AR669B /NJ	77	27	363089	Non-Hazardous Soil	Bayshore Recycling Corp.	29.76	
29	7/14/2014	Juancho	AP183Z /NJ	2205	28	363104	Non-Hazardous Soil	Bayshore Recycling Corp.	34.65	
30	7/14/2014	Jencar	AP552R /NJ	70	29	363116	Non-Hazardous Soil	Bayshore Recycling Corp.	27.09	
31	7/14/2014	Jencar	AP812A /NJ	68	30	363119	Non-Hazardous Soil	Bayshore Recycling Corp.	22.75	
32	7/15/2014	Jencar	AP812A /NJ	68	31	363227	Non-Hazardous Soil	Bayshore Recycling Corp.	31.1	
33	7/15/2014	Jencar	AP753U /NJ	107	32	363241	Non-Hazardous Soil	Bayshore Recycling Corp.	27.02	
34	7/15/2014	Jencar	AP885D /NJ	69	33	363234	Non-Hazardous Soil	Bayshore Recycling Corp.	27.67	
35	7/15/2014	Jencar	AR293C /NJ	108	34	363246	Non-Hazardous Soil	Bayshore Recycling Corp.	30.37	
36	7/15/2014	Jencar	AP812A /NJ	68	35	363301	Non-Hazardous Soil	Bayshore Recycling Corp.	33.34	
37	7/15/2014	Jencar	AP885D /NJ	69	36	363308	Non-Hazardous Soil	Bayshore Recycling Corp.	31.55	
38	7/15/2014	Jencar	AP753U /NJ	107	37	363318	Non-Hazardous Soil	Bayshore Recycling Corp.	27.77	
39	7/15/2014	Jencar	AR293C /NJ	108	38	363331	Non-Hazardous Soil	Bayshore Recycling Corp.	29.86	
40	7/15/2014	Jencar	AP885D /NJ	69	39	363372	Non-Hazardous Soil	Bayshore Recycling Corp.	31.07	
41	7/15/2014	Jencar	AP293C /NJ	108	40	363384	Non-Hazardous Soil	Bayshore Recycling Corp.	28.98	
42	7/15/2014	Jencar	AP753U /NJ	107	41	363379	Non-Hazardous Soil	Bayshore Recycling Corp.	28.77	
43	8/12/2014	Jencar	AP573W /NJ	72	212931	2010876	Common Fill	Morris Fairmount Associates	32.08	
44	8/12/2014	Jencar	AP885D /NJ	69	212932	2010875	Common Fill	Morris Fairmount Associates	34.16	
45	8/12/2014	Jencar	AP552R /NJ	70	212933	2010872	Common Fill	Morris Fairmount Associates	34.94	

**Table 3
Waste Disposal Tracking Log Summary
444 Tenth Avenue
Manhattan, New York
Brinkerhoff Project No: 12BR198**

Load Counter	Date	Trucking Company	Plate #	Truck #	Manifest #	Weight Ticket #	Material Type	Disposal Facility	Tons	Comments
46	8/12/2014	Jencar	AP812A /NJ	68	212934	2010869	Common Fill	Morris Fairmount Associates	34.69	
47	8/12/2014	Jencar	AP573W /NJ	72	212935	2010864	Common Fill	Morris Fairmount Associates	32.5	
48	8/12/2014	Jencar	AP885D /NJ	69	212936	2010862	Common Fill	Morris Fairmount Associates	33.95	
49	8/12/2014	Jencar	AP812A /NJ	68	212937	2010859	Common Fill	Morris Fairmount Associates	35.08	
50	8/12/2014	Jencar	AP885D /NJ	69	212939	2010809	Common Fill	Morris Fairmount Associates	36.93	
51	8/12/2014	Jencar	AP812A /NJ	68	212940	2010807	Common Fill	Morris Fairmount Associates	39.27	
52	8/12/2014	Jencar	AP573W /NJ	72	212941	2010804	Common Fill	Morris Fairmount Associates	35.7	
53	8/12/2014	Jencar	AP812A /NJ	68	212942	2010832	Common Fill	Morris Fairmount Associates	34.21	
54	8/12/2014	Jencar	AP812A /NJ	68	212943	201046	Common Fill	Morris Fairmount Associates	37.56	
55	8/12/2014	Jencar	AP885D /NJ	69	212944	201034	Common Fill	Morris Fairmount Associates	34.9	
56	8/12/2014	Jencar	AP573W /NJ	72	212945	2010835	Common Fill	Morris Fairmount Associates	35.17	
57	8/12/2014	Jencar	AP552R /NJ	70	212946	2010833	Common Fill	Morris Fairmount Associates	36.53	
58	8/12/2014	Jencar	AP885D /NJ	69	212947	2010855	Common Fill	Morris Fairmount Associates	35.71	
59	8/12/2014	Jencar	AP552R /NJ	70	212948	2010860	Common Fill	Morris Fairmount Associates	33.27	
60	8/12/2014	Jencar	AP573W /NJ	72	212949	2010856	Common Fill	Morris Fairmount Associates	36.58	
61	8/12/2014	Jencar	AP552R /NJ	70	212950	2010850	Common Fill	Morris Fairmount Associates	32.72	
62	8/12/2014	Jencar	AP552R /NJ	70	212951	2010815	Common Fill	Morris Fairmount Associates	36.04	
63	8/26/2014	Jencar	AP573W /NJ	72	196395	2011528	Common Fill	Morris Fairmount Associates	40.18	
64	8/26/2014	Jencar	AN509W /NJ	71	196391	2011529	Common Fill	Morris Fairmount Associates	36.8	
65	8/26/2014	Jencar	AP812A /NJ	68	196392	2011532	Common Fill	Morris Fairmount Associates	35.99	
66	8/26/2014	Jencar	AP885D /NJ	69	196393	2011539	Common Fill	Morris Fairmount Associates	35.07	
67	8/26/2014	Jencar	AP621C /NJ	67	196396	2011542	Common Fill	Morris Fairmount Associates	36	
68	8/26/2014	Jencar	AP552R /NJ	70	196394	2011546	Common Fill	Morris Fairmount Associates	33.99	
69	8/26/2014	Jencar	AP573W /NJ	72	196386	2011560	Common Fill	Morris Fairmount Associates	34.12	
70	8/26/2014	Jencar	AN509W /NJ	71	196390	2011562	Common Fill	Morris Fairmount Associates	34.46	
71	8/26/2014	Jencar	AP812A /NJ	68	196387	2011563	Common Fill	Morris Fairmount Associates	33.44	
72	8/26/2014	Jencar	AP885D /NJ	69	196388	2011566	Common Fill	Morris Fairmount Associates	35.53	
73	8/26/2014	Jencar	AR621C /NJ	67	196385	2011567	Common Fill	Morris Fairmount Associates	36.34	
74	8/26/2014	Jencar	AP552R /NJ	70	196389	2011574	Common Fill	Morris Fairmount Associates	36.33	
75	8/26/2014	Jencar	AP573W /NJ	72	196382	2011582	Common Fill	Morris Fairmount Associates	38.19	
76	8/26/2014	Jencar	AN509W /NJ	71	196384	2011585	Common Fill	Morris Fairmount Associates	38.64	
77	8/26/2014	Jencar	AP812A /NJ	68	196380	2011590	Common Fill	Morris Fairmount Associates	35.21	
78	8/26/2014	Jencar	AP885D /NJ	69	196379	2011595	Common Fill	Morris Fairmount Associates	35.18	
79	8/26/2014	Jencar	AR621C /NJ	67	196383	2011604	Common Fill	Morris Fairmount Associates	39.28	
80	8/26/2014	Jencar	AP552R /NJ	70	196381	2011606	Common Fill	Morris Fairmount Associates	35.82	
81	8/26/2014	Jencar	AP573W /NJ	72	196367	2011609	Common Fill	Morris Fairmount Associates	36.2	
82	8/26/2014	Jencar	AN509W /NJ	71	196368	2011612	Common Fill	Morris Fairmount Associates	37.31	
83	8/26/2014	Jencar	AP812A /NJ	68	196369	2011616	Common Fill	Morris Fairmount Associates	35.67	
84	8/26/2014	Jencar	AP885D /NJ	69	196370	2011622	Common Fill	Morris Fairmount Associates	33.36	
85	8/26/2014	Jencar	AR621C /NJ	67	196372	2011628	Common Fill	Morris Fairmount Associates	35.07	
86	8/26/2014	Jencar	AP552R /NJ	70	196371	2011630	Common Fill	Morris Fairmount Associates	34.29	
87	8/26/2014	Jencar	AP573W /NJ	72	196374	2011634	Common Fill	Morris Fairmount Associates	34.15	
88	8/26/2014	Jencar	AN509W /NJ	71	196378	2011635	Common Fill	Morris Fairmount Associates	34.53	
89	8/26/2014	Jencar	AP812A /NJ	68	196377	2011638	Common Fill	Morris Fairmount Associates	35.1	
90	8/26/2014	Jencar	AP885D /NJ	69	196376	2011653	Common Fill	Morris Fairmount Associates	34.47	

**Table 3
Waste Disposal Tracking Log Summary
444 Tenth Avenue
Manhattan, New York
Brinkerhoff Project No: 12BR198**

Load Counter	Date	Trucking Company	Plate #	Truck #	Manifest #	Weight Ticket #	Material Type	Disposal Facility	Tons	Comments
91	8/26/2014	Jencar	AR621C /NJ	67	196373	2011656	Common Fill	Morris Fairmount Associates	35.58	
92	8/26/2014	Jencar	AP552R /NJ	70	196375	2011664	Common Fill	Morris Fairmount Associates	33.79	
93	8/28/2014	Jencar	AR621C /NJ	67	47	377014	Non-Hazardous Soil	Bayshore Recycling Corp.	34.31	
94	8/28/2014	Jencar	AN509W /NJ	71	46	377018	Non-Hazardous Soil	Bayshore Recycling Corp.	33.2	
95	8/28/2014	Jencar	AR552R /NJ	70	44	377024	Non-Hazardous Soil	Bayshore Recycling Corp.	32.02	
96	8/28/2014	Jencar	AP812A /NJ	68	45	377028	Non-Hazardous Soil	Bayshore Recycling Corp.	31.55	
97	8/28/2014	Jencar	AP885D /NJ	69	43	377054	Non-Hazardous Soil	Bayshore Recycling Corp.	32.59	
98	8/28/2014	Jencar	AP573W /NJ	72	42	377060	Non-Hazardous Soil	Bayshore Recycling Corp.	31.44	
99	8/28/2014	Jencar	AR621C /NJ	67	57	377118	Non-Hazardous Soil	Bayshore Recycling Corp.	33.35	
100	8/28/2014	Jencar	AN509W /NJ	71	54	377124	Non-Hazardous Soil	Bayshore Recycling Corp.	33.03	
101	8/28/2014	Jencar	AR552R /NJ	70	55	377133	Non-Hazardous Soil	Bayshore Recycling Corp.	36.6	
102	8/28/2014	Jencar	AP812A /NJ	68	56	377137	Non-Hazardous Soil	Bayshore Recycling Corp.	35.3	
103	8/28/2014	Jencar	AP885D /NJ	69	48	377156	Non-Hazardous Soil	Bayshore Recycling Corp.	31.47	
104	8/28/2014	Jencar	AP573W /NJ	72	49	377168	Non-Hazardous Soil	Bayshore Recycling Corp.	32.63	
105	8/28/2014	Jencar	AR621C /NJ	67	50	377228	Non-Hazardous Soil	Bayshore Recycling Corp.	35.96	
106	8/28/2014	Jencar	AN509W /NJ	71	51	377234	Non-Hazardous Soil	Bayshore Recycling Corp.	31.32	
107	8/28/2014	Jencar	AP573W /NJ	72	52	377244	Non-Hazardous Soil	Bayshore Recycling Corp.	34.8	
108	8/28/2014	Jencar	AP812A /NJ	68	53	377249	Non-Hazardous Soil	Bayshore Recycling Corp.	34.37	
109	8/28/2014	Jencar	AP885D /NJ	69	58	377264	Non-Hazardous Soil	Bayshore Recycling Corp.	32.96	
110	8/28/2014	Jencar	AP573W /NJ	72	59	377271	Non-Hazardous Soil	Bayshore Recycling Corp.	31.71	
111	8/28/2014	Jencar	AR621C /NJ	67	60	377331	Non-Hazardous Soil	Bayshore Recycling Corp.	32.3	
112	8/28/2014	Jencar	AN509W /NJ	71	61	377346	Non-Hazardous Soil	Bayshore Recycling Corp.	33.72	
113	8/28/2014	Jencar	AR552R /NJ	70	62	377359	Non-Hazardous Soil	Bayshore Recycling Corp.	31.04	
114	8/28/2014	Jencar	AP812A /NJ	68	63	377365	Non-Hazardous Soil	Bayshore Recycling Corp.	33.67	
115	8/28/2014	Jencar	AP885D /NJ	69	64	377373	Non-Hazardous Soil	Bayshore Recycling Corp.	33.52	
116	8/28/2014	Jencar	AP573W /NJ	72	65	377382	Non-Hazardous Soil	Bayshore Recycling Corp.	31.22	
117	9/10/2014	Jencar	AP573W /NJ	72	66	381488	Non-Hazardous Soil	Bayshore Recycling Corp.	35.05	
118	9/10/2014	Jencar	AR621C /NJ	67	67	381501	Non-Hazardous Soil	Bayshore Recycling Corp.	40.35	
119	9/10/2014	Jencar	AP885D /NJ	69	68	381484	Non-Hazardous Soil	Bayshore Recycling Corp.	34.92	
120	9/11/2014	Jencar	AN509W /NJ	71	69	381880	Non-Hazardous Soil	Bayshore Recycling Corp.	35.16	
121	9/11/2014	Jencar	AP812A /NJ	68	70	381890	Non-Hazardous Soil	Bayshore Recycling Corp.	36.43	
122	9/11/2014	Jencar	AP552R /NJ	70	71	381906	Non-Hazardous Soil	Bayshore Recycling Corp.	35.81	
123	9/11/2014	Jencar	AN509W /NJ	71	74	382030	Non-Hazardous Soil	Bayshore Recycling Corp.	36.09	
124	9/11/2014	Jencar	AP812A /NJ	68	75	382039	Non-Hazardous Soil	Bayshore Recycling Corp.	35.73	
125	9/11/2014	Jencar	AP552R /NJ	70	73	382055	Non-Hazardous Soil	Bayshore Recycling Corp.	34.2	
126	9/11/2014	Jencar	AN509W /NJ	71	77	382153	Non-Hazardous Soil	Bayshore Recycling Corp.	33.26	
127	9/11/2014	Jencar	AP812A /NJ	68	72	382169	Non-Hazardous Soil	Bayshore Recycling Corp.	32.73	
128	9/11/2014	Jencar	AP552R /NJ	70	76	382179	Non-Hazardous Soil	Bayshore Recycling Corp.	34.3	
129	9/15/2014	Jencar	AP885D /NJ	69	78	383172	Non-Hazardous Soil	Bayshore Recycling Corp.	33.13	
130	9/15/2014	Jencar	AP885D /NJ	69	79	383491	Non-Hazardous Soil	Bayshore Recycling Corp.	33.38	
131	9/15/2014	Jencar	AP885D /NJ	69	80	383353	Non-Hazardous Soil	Bayshore Recycling Corp.	33.94	
132	9/18/2014	Jencar	AP885D /NJ	69	81	384914	Non-Hazardous Soil	Bayshore Recycling Corp.	33.23	
133	9/18/2014	Jencar	AP812A /NJ	68	82	384930	Non-Hazardous Soil	Bayshore Recycling Corp.	36.74	
134	9/18/2014	Jencar	AP885D /NJ	69	83	385073	Non-Hazardous Soil	Bayshore Recycling Corp.	34.39	
135	9/18/2014	Jencar	AN509W /NJ	71	84	385090	Non-Hazardous Soil	Bayshore Recycling Corp.	34.71	

Table 3
Waste Disposal Tracking Log Summary
444 Tenth Avenue
Manhattan, New York
Brinkerhoff Project No: 12BR198

Load Counter	Date	Trucking Company	Plate #	Truck #	Manifest #	Weight Ticket #	Material Type	Disposal Facility	Tons	Comments
136	9/18/2014	Jencar	AP885D /NJ	69	85	385208	Non-Hazardous Soil	Bayshore Recycling Corp.	35.29	
137	9/18/2014	Jencar	AN509W /NJ	71	86	385210	Non-Hazardous Soil	Bayshore Recycling Corp.	39.38	
138	9/18/2014	Jencar	AN509W /NJ	71	87	385510	Non-Hazardous Soil	Bayshore Recycling Corp.	36.91	
139	9/18/2014	Jencar	AP552R /NJ	70	88	385491	Non-Hazardous Soil	Bayshore Recycling Corp.	33.97	
140	9/18/2014	Jencar	AR621C /NJ	67	89	385927	Non-Hazardous Soil	Bayshore Recycling Corp.	37.8	
141	9/22/2014	Jencar	AP552R /NJ	70	90	386286	Non-Hazardous Soil	Bayshore Recycling Corp.	34.25	
142	9/22/2014	Jencar	AP812A /NJ	68	91	386741	Non-Hazardous Soil	Bayshore Recycling Corp.	36.49	
143	9/22/2014	Jencar	AP552R /NJ	70	92	386483	Non-Hazardous Soil	Bayshore Recycling Corp.	36.71	
144	9/22/2014	Jencar	AP812A /NJ	68	93	386486	Non-Hazardous Soil	Bayshore Recycling Corp.	36.18	
145	9/22/2014	Jencar	AP552D /NJ	70	94	386639	Non-Hazardous Soil	Bayshore Recycling Corp.	34.56	
146	9/22/2014	Jencar	AP8112A /NJ	68	95	386291	Non-Hazardous Soil	Bayshore Recycling Corp.	34.06	
147	9/22/2014	Jencar	AP552D /NJ	70	96	386736	Non-Hazardous Soil	Bayshore Recycling Corp.	33.9	
148	9/22/2014	Jencar	AP812A /NJ	68	97	386652	Non-Hazardous Soil	Bayshore Recycling Corp.	31.88	
149	9/29/2014	Jencar	AN509W /NJ	71	98	389218	Non-Hazardous Soil	Bayshore Recycling Corp.	33.64	
150	9/29/2014	Jencar	AP812A /NJ	68	99	289226	Non-Hazardous Soil	Bayshore Recycling Corp.	33.31	
151	9/29/2014	Jencar	AN509W /NJ	71	100	389376	Non-Hazardous Soil	Bayshore Recycling Corp.	33.65	
152	9/29/2014	Jencar	AP812A /NJ	68	101	389399	Non-Hazardous Soil	Bayshore Recycling Corp.	36.29	
153	9/29/2014	Jencar	AN509W /NJ	71	102	389543	Non-Hazardous Soil	Bayshore Recycling Corp.	36.83	
154	10/7/2014	Jencar	AN509W /NJ	71	103	392524	Non-Hazardous Soil	Bayshore Recycling Corp.	37.54	
155	10/7/2014	Artic	AP905Y /NJ	26	104	392530	Non-Hazardous Soil	Bayshore Recycling Corp.	37.1	
156	10/7/2014	Artic	AP906Y /NJ	27	105	392654	Non-Hazardous Soil	Bayshore Recycling Corp.	36.56	
157	10/7/2014	Jencar	AN509W NJ	71	107	392671	Non-Hazardous Soil	Bayshore Recycling Corp.	35.97	
158	10/7/2014	Artic	AR807C /NJ	1	106	392672	Non-Hazardous Soil	Bayshore Recycling Corp.	40.46	
159	10/7/2014	Artic	AP905Y /NJ	26	108	392687	Non-Hazardous Soil	Bayshore Recycling Corp.	36.75	
160	10/7/2014	Jencar	AN509W NJ	71	109	392832	Non-Hazardous Soil	Bayshore Recycling Corp.	34.58	
161	10/7/2014	Artic	AP906Y /NJ	27	110	392853	Non-Hazardous Soil	Bayshore Recycling Corp.	33.18	
162	10/7/2014	Artic	AR807C /NJ	1	111	392873	Non-Hazardous Soil	Bayshore Recycling Corp.	34.66	
163	10/7/2014	Artic	AP905Y /NJ	26	112	392876	Non-Hazardous Soil	Bayshore Recycling Corp.	35.1	
164	10/8/2014	Artic	AR807C /NJ	1	113	393018	Non-Hazardous Soil	Bayshore Recycling Corp.	34.84	
165	10/8/2014	Artic	AP906Y /NJ	27	114	393025	Non-Hazardous Soil	Bayshore Recycling Corp.	33.83	
166	10/8/2014	Artic	AP905Y /NJ	26	115	393031	Non-Hazardous Soil	Bayshore Recycling Corp.	37.31	
167	10/8/2014	Artic	AR807C /NJ	1	116	393192	Non-Hazardous Soil	Bayshore Recycling Corp.	35.57	
168	10/8/2014	Artic	AP807C /NJ	1	117	393323	Non-Hazardous Soil	Bayshore Recycling Corp.	34.66	
169	10/8/2014	Artic	AP905Y /NJ	26	118	393329	Non-Hazardous Soil	Bayshore Recycling Corp.	36.86	
170	10/8/2014	Artic	AP906Y /NJ	27	119	393355	Non-Hazardous Soil	Bayshore Recycling Corp.	33.54	
171	10/8/2014	Artic	AR807C /NJ	1	120	393443	Non-Hazardous Soil	Bayshore Recycling Corp.	36.23	

Notes:

Bayshore Recycling Corp. is located at 75 Crows Mill Road, Keasbey, New Jersey
Morris Fairmount Associates is located at 117 Blanchard Street, Newark, New Jersey

Bayshore	3981.58
Blanchard	1772.08
Combined	5753.66