PERIODIC REVIEW REPORT

for

23-01 42nd ROAD
Long Island City, New York
NYSDEC BCP Site No. C241152

Prepared For:

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LANGAN

April 2017
170244602

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1.0 INTRODUCTION

1.1 General

This Periodic Review Report was prepared in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved Site Management Plan (SMP), dated March 31, 2015 and revised May 15, 2015. The certification period is October 19, 2015 through February 19, 2017. A periodic review of all institutional controls and engineering controls (IC/ECs) and a site evaluation are required for fulfillment of the Certificate of Completion for 23-01 42nd Road (the "site"), dated October 19, 2015, which acknowledges that applicable remediation requirements set forth in the ECL have been achieved to the satisfaction of the Commissioner of the NYSDEC, pursuant to the Brownfield Cleanup Agreement (BCA), dated October 4, 2013 (BCA Index No. C241152-09-13, Site No. C241152). Site remediation was performed in accordance with the Interim Remedial Measures Work Plan (IRMWP), dated September 20, 2013, and the Remedial Action Work Plan (RAWP), dated May 2014.

1.2 Site Summary

The site is located in an area of historical industrial usage and was used for manufacturing purposes since as early as 1947. From 1936 through 2006, the site was occupied by a one-story warehouse building with a basement and was used as a garage and for manufacturing. Historical uses of properties surrounding the site include a filling station, an auto repair shop, multiple garages, and lacquer spraying. Three underground storage tanks (UST) and one aboveground storage tank (AST) were decommissioned and removed as part of IRMWP implementation. The current development is a 44-story residential apartment building with ground-floor amenity space. The building occupies the entire lot and does not have a cellar.

Subsurface investigations were conducted between November 2012 and November 2013. These investigations were documented in the Remedial Investigation Report (RIR), dated November 2013 and revised in January 2014. The following list summarizes the results of the investigations:

- The contaminants of concern identified include:

Benzene	Benzo(b)fluoranthene	Lead
Benzo(a)anthracene	Indeno(1,2,3-cd)pyrene	Mercury
Benzo(a)pyrene	Copper	Trichloroethylene (TCE)

- The contaminants of concern exceeded the applicable Standards, Criteria, and Guidance (SCG) for soil, groundwater and soil vapor intrusion.

- Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) were detected in soil primarily in the western and southeastern portions of the site. Metals were detected in soil primarily in the northwestern portion of the site.
- Benzene was detected in groundwater in the southeastern portion of the site, but is not expected to have migrated off-site.
- TCE was detected in soil vapor and is believed to be migrating from the northern-adjoining property that is being addressed pursuant to a separate BCA.

Site management has been conducted since completion of the remedial activities on October 19, 2015. See Section 2.2 for further information on the remedial program.

1.3 Effectiveness of the Remedial Program

The remedial program was designed to eliminate and mitigate environmental and potential human health exposure to adverse environmental conditions still present in soil and soil vapor underlying the site. The IC/ECs for the certification period achieved their remedial objectives.

1.4 Compliance with the Site Management Plan

All ICs and ECs remain fully in place for the certification period and continue to be effective.

1.5 Recommendations

No changes to the SMP are recommended at this time.

2.0 SITE OVERVIEW

2.1 Site Location

The site is located in Long Island City, New York and is identified as Block 425, Lot 1 on the New York City Tax Map. The rectangular site is situated on a 0.343-acre parcel bounded by a five-story building to the north, 42nd Road to the south, 24th Street to the east, and 23rd Street to the west (see Figure 1).

2.2 Site Background

Interim remedial measures (IRM) were implemented between November 13, 2013 and June 12, 2014. Remedial activities implemented in accordance with the NYSDEC-approved RAWP were completed in October 2014. The components of the selected remedy include:

- Decommissioning and removal of one AST and three USTs;
- Excavation and off-site disposal of grossly-contaminated soil associated with the USTs;
- Collection and analysis of post-excavation documentation samples;
- Backfilling to development grade with clean fill, recycled concrete aggregate (RCA), or virgin, native crushed stone;
- Installation of ECs including a composite cover system and a submembrane depressurization (SMD) system;
- An environmental easement with ICs; and
- Ongoing implementation of a Site Management Plan (SMP) to ensure the performance, effectiveness, and protectiveness of the IC/ECs.

With the exception of the installation of the above-grade components of the submembrane depressurization (SMD) system, remedial activities were completed as of October 2014. NYSDEC issued a Certificate of Completion on October 19, 2015. Superstructure construction of the 44-story building was completed between October 2014 and January 2017 and included installation of the above-slab components of the SMD system (e.g. blower and piping). The SMP inspections and SMD system startup testing were conducted on January 27, 2017 and January 30, 2017, respectively. The New York City Department of Buildings (NYCDOB) issued a Certificate of Occupancy for floors 1 to 44 effective February 7, 2017.

3.0 IC/EC PLAN COMPLIANCE REPORT

Since residual contaminated soil, groundwater, and soil vapor exists beneath the site, IC/ECs are required to protect human health and the environment. The Engineering and Institutional Control Plan included in the SMP describes the procedures for the implementation and management of the IC/ECs.

3.1 IC/EC Components

Consistent with the Final Engineering Report (FER) and SMP, the site-specific IC/ECs are summarized below.

3.1.1 Engineering Controls

3.1.1.1 Composite Cover System

Exposure to remaining contamination in soil/fill is prevented by a composite cover system placed over the Site. This cover system is comprised of a minimum of 14-inch concrete building slab underlain by a vapor barrier membrane, which was installed as a contingency measure to prevent vapor intrusion.

3.1.1.2 Submembrane Depressurization System

An SMD system was incorporated into the foundation design to mitigate potential soil vapor intrusion into the site building. The SMD system consists of horizontal, interconnected, 4-inch diameter perforated HDPE piping placed in an 8-inch layer of clean ¾-inch stone. The system underlies a vapor barrier membrane, which extends underneath the entire floor slab. The horizontal piping is connected to a vertical, subgrade vapor collection pipe located in the central portion of the site, southwest of the core mat. The collection pipe attaches to a 4-inch diameter riser that extends through the floor slab.

3.1.2 Institutional Controls

The site has a series of ICs in the form of site restrictions. Adherence to these ICs is required by the Environmental Easement (Appendix A). Site restrictions that apply to the Controlled Property are:

- The property may only be used for restricted residential, commercial, and industrial uses provided that the long-term EC/ICs included in the SMP are employed.

- The property may not be used for a higher level of use, such as residential or unrestricted use, without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC.
- All future activities on the site that will disturb remaining contaminated material must be conducted in accordance with the SMP.
- The use of the groundwater underlying the property is prohibited without necessary water quality treatment, as determined by the NYSDOH or NYCDOH.
- Vegetable gardens and farming in residual soil on the property are prohibited.
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that:
    - (1) Controlled Property controls are unchanged from the previous certification or that any changes to the controls were NYSDEC approved; and,
    - (2) Nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time to evaluate the maintenance of any and all controls.

3.2 Goal Status and Corrective Measures

No deviations of the IC/ECs have been documented during the certification period.

3.3 Conclusions and Recommendations

The IC/ECs continue to function as designed and in compliance with the SMP. Maintenance recommendations are described in Section 5.5.

4.0 MONITORING PLAN COMPLIANCE REPORT

4.1 Monitoring Plan Components

The components of the Monitoring Plan are as follows:

- Quarterly inspections of the SMD system during the first year of operation, then annually thereafter;
- An annual inspection of the composite cover system; and
- An annual site-wide inspection.

4.2 Summary of Monitoring Completed

4.2.1 SMD System Inspections

Post-construction initial inspection of the SMD system was conducted on January 27, 2017. The first quarterly inspection of the SMD system was conducted on April 26, 2017. The SMD was inspected to determine whether the system installation and function is satisfactory and consistent with the manufacturer's specifications and the design criteria. Based on the inspections, the SMD system is operational and functioning within the design criteria for the certification period. Minor deficiencies identified during the initial inspection were resolved before the first quarterly inspection and are summarized in Section 4.4. The SMD system installation record and the manufacturer's start-up checklist are included in Appendix B. The individual system inspection report is included in Appendix C.

4.2.2 Composite Cover System Inspections

The annual composite cover system inspection was conducted on January 27, 2017. The 14-inch-thick first-floor slab was inspected for quality and integrity. Damages or breaches to the composite cover system were not observed during the annual inspection event. No construction activity or indication of any construction activity during the certification period that included the breaching of the site cover system was observed. Detailed composite cover system inspection reports are included as Appendix D.

4.2.3 Annual Site-Wide Inspection

The annual site-wide inspection was conducted on January 27, 2017. This consisted of spot inspections of all ECs and verification of ICs. All IC/EC components inspected were functioning in compliance with the SMP. Site operations consisted of construction activities in preparation

for residential tenant occupancy. The completed site-wide inspection form is included as Appendix E.

4.4 Monitoring Deficiencies

No deficiencies were identified during the composite cover system and site-wide inspections. The following deficiencies were identified during the post-startup SMD system inspection:

- The exposed piping was not labeled in accordance with the design drawings;
- A vacuum gauge placed directly before the blower's air-filter was not present; and
- The remote alarm was not installed and therefore unable to be tested.

The Volunteer resolved the deficiencies before the first quarterly inspection. During the first quarterly inspection, the alarm system was tested and was found to be working properly, the exposed piping was labeled in accordance with the design drawings, and a vacuum gauge was present before the blower's air filter.

4.5 Conclusions and Recommendations

No changes to the SMP are recommended at this time.

5.0 O&M PLAN COMPLIANCE REPORT

5.1 O&M Plan Components

The components of the O&M Plan are as follows:

- Continuous operation and maintenance, as necessary, of the SMD system.

5.2 Completed O&M Activities

5.2.1 SMD System Start-up

The SMD system start-up and initial testing was completed on January 27, 2017. The initial testing consisted of the following:

- While the system was operating, smoke tubes were used to check for leaks through concrete cracks, floor joints, and at the suction points.
- Indoor air, outdoor ambient air, and SMD system sample port samples were collected.

No leaks were identified during the smoke tube testing. The air samples were transported from the site to York Analytical Laboratories, Inc. (York) by a laboratory-provided courier for analysis of volatiles organic compounds (VOCs) via Environmental Protection Agency (EPA) method TO-15. VOC concentrations in indoor air are below the New York State Department of Health (NYSDOH) Air Guidance Values (AGVs). A summary table of air analytical detection results is shown as Table 1. A NYSDOH Indoor Air Quality Questionnaire and Building Inventory were completed on January 27, 2017 and are included as Appendix F. A copy of the laboratory report for the samples collected is included as Appendix G.

5.3 Evaluation of SMD System

5.3.1 SMD System

The primary objective of the SMD system is to impart a negative pressure under the sub-slab membrane in relation to the building indoor air pressure. The negative pressure field captures contaminated soil vapors, which are expelled to the atmosphere above the building's roof via a vacuum blower system. The results of the smoke tube test and air sample analysis indicate effective performance of the mitigation system.

5.4 O&M Deficiencies

SMD system deficiencies noted during the post-startup inspection were resolved before the first quarterly inspection.

5.5 Conclusions and Recommendations

No changes to the SMP are recommended at this time.

6.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

6.1 SMP Compliance

Each component of the SMP, including the IC/EC Plan, Monitoring Plan, and O&M Plan, with the exception of the alarm system testing for the SMD system, was in compliance for the certification period.

6.2 Remedy Performance Evaluation

6.2.1 SMD System

Overall and following system startup, the SMD system is operating as designed and is mitigating the potential exposure to soil vapor contaminants.

6.2.2 Composite Cover System

Conditions of the 14-inch thick first floor slab covering the entire site were inspected for quality and integrity. The site-wide composite cover system was observed to be intact and continues to protect public health and the environment.

6.2.3 IC Components

All ICs were maintained during the 2016 calendar year, and the environmental easement remains in place.

6.3 Future Submittals

Quarterly inspections of the SMD system and annual composite cover system and site-wide inspections will continue to be conducted as specified in the Reporting Plan of the NYSDEC-approved SMP. Forms and other information generated during regular monitoring events and inspections will be submitted at the time of the annual Periodic Review Report.

7.0 CERTIFICATION OF IC/ECS

7.1 IC/EC Certification Form

The completed IC/EC Certification Form is presented in Appendix H. NYCDOB work permits for superstructure construction performed after the COC was issued are attached to the IC/EC Certification Form.

7.2 IC/EC Certification

I, Jason J. Hayes, am currently a registered professional engineer licensed by the State of New York. I had primary direct responsibility for implementation of the remedial program for the 23-01 42nd Road site (NYSDEC BCA Index No. C241152-09-13, Site No. C241152).

I certify that the ICs/ECs are in place and effective and are performing as designed.

I certify that nothing has occurred that would impair the ability of the controls to protect the public health and environment and that nothing has occurred that would constitute a violation or failure to comply with any operation and maintenance plan for such controls.

I certify that all use restrictions, institutional controls, engineering controls, and all operation and maintenance requirements applicable to the site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded. A Site Management Plan has been submitted by the applicant for the continual and proper operation, maintenance, and monitoring of all engineering controls employed at the site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by the Department.

I certify that all information and statements in this certification are true. I understand that a false statement made herein is punishable as Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

089491-1	5/1/2017	
New York State Professional Engineer #	Date	Signature

It is a violation of Article 130 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 130, New York State Education Law.

Tables

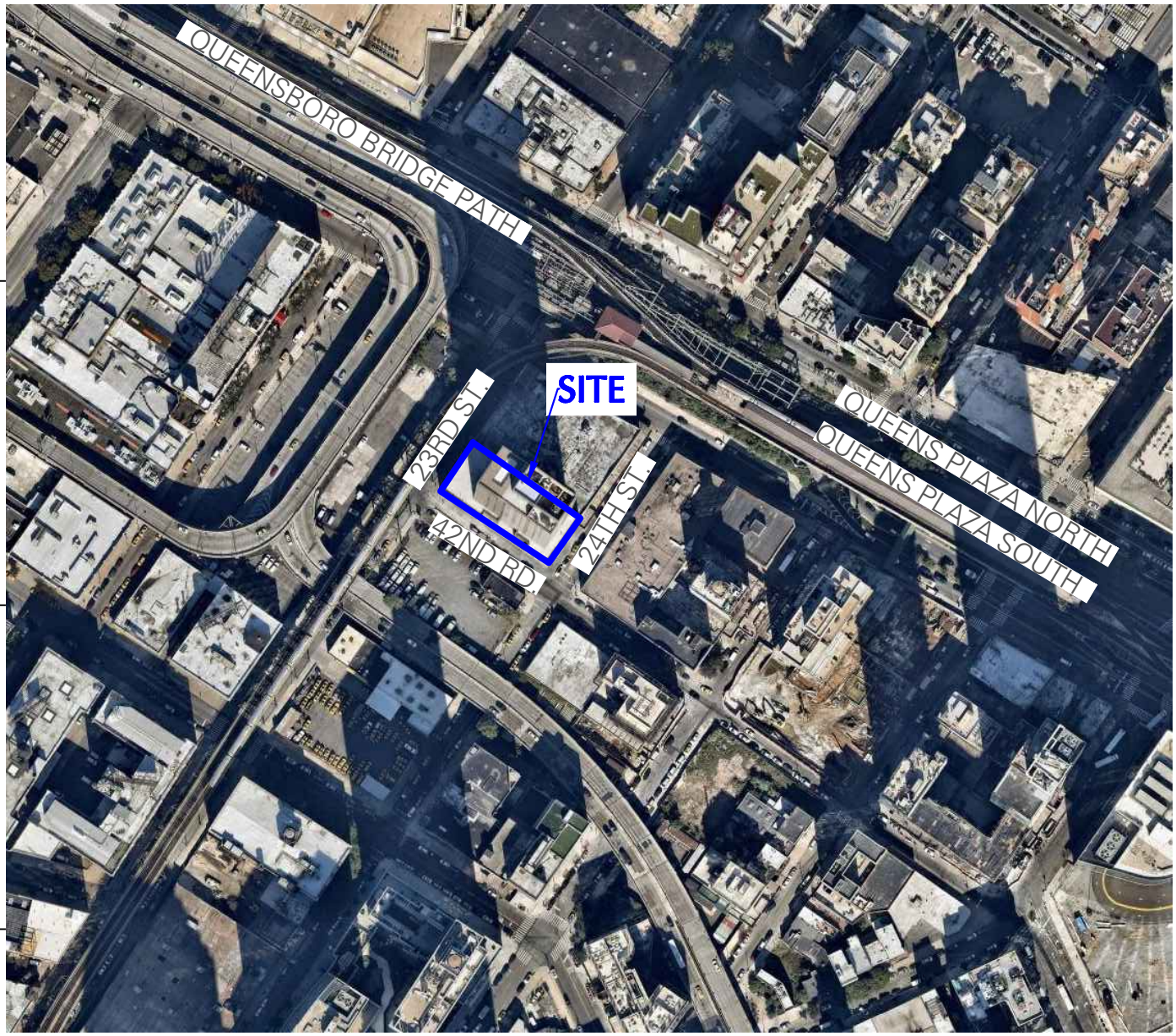
Table 1
Air Analytical Results Summary
23-01 42nd Road
Periodic Review Report
Long Island City, New York
Langan Project No. 170244602

Sample ID	**AA_013017**		**IA_013017**		**SMDRiser_013017**	
Sample Location	**Outdoor Ambient Air**		**Indoor Ambient Air**		**SMD Riser**	
Laboratory Sample ID	**17A1033-03**		**17A1033-02**		**17A1033-01**	
Sample Date	**1/30/2017**		**1/30/2017**		**1/30/2017**	
Volatile Organic Compounds (µg/m³)						
1,2,4-Trimethylbenzene	0.55	U	0.57	U	14	
1,2-Dichlorotetrafluoroethane	0.78	U	0.81	U	140	
2-Butanone	0.53		1.6		5.5	U
Acetone	5.2		10		29	
Benzene	0.39		0.55		210	
Carbon disulfide	0.35	U	0.61		44	
Carbon tetrachloride	0.42		0.36		2.9	U
Chlorobenzene	0.52	U	0.53	U	120	
Chloromethane	1.2		1.0		3.9	U
Cyclohexane	0.39	U	0.40	U	280	
Dichlorodifluoromethane	2.0		2.0		54	
Ethyl Benzene	0.49	U	0.65		130	
Isopropanol	0.55	U	2.8		9.2	U
Methylene chloride	8.9		1.5		13	U
n-Heptane	0.46	U	0.47		250	
n-Hexane	0.39	U	0.41	U	170	
o-Xylene	0.49	U	0.50	U	70	
p/m-Xylene	0.97	U	2.1		340	
p-Ethyltoluene	0.55	U	0.57	U	16	
Tetrachloroethylene	0.30		0.39		8.9	
Toluene	1.9		4.9		180	
Trichloroethylene	0.15	U	0.16	U	4.0	
Trichlorofluoromethane (Freon 11)	1.4		1.2		24	
Vinyl chloride	0.29	U	0.30	U	11	
Total VOCs	22.24		30.13		2,094.9	

Notes:
1. Only analytes with detections are shown in the table.
2. µg/m³ = micrograms per cubic meter
3. VOC = volatile organic compound

Qualifiers:
U = Analyte was not detected at a concentration greater than or equal to the Reporting Limit (RL); the value shown in the table is the RL.

Figures



LEGEND:

SITE BOUNDARY

NOTES:

1. BASE MAP TAKEN FROM NEARMAP (IMAGE DATE 10/15/2016)

LANGAN
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T: 212.479.5400 F: 212.479.5444 www.langan.com
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan International LLC
Collectively known as Langan

Project
23-01 42nd ROAD
BLOCK No. 425, LOT No. 1
LONG ISLAND CITY
QUEENS NEW YORK

Figure Title
SITE LOCATION MAP

Project No. 170244602	Figure No. 1
Date 02/14/2017	
Scale NTS	
Drawn By VDP	
Submission Date –	Sheet 1 of 3

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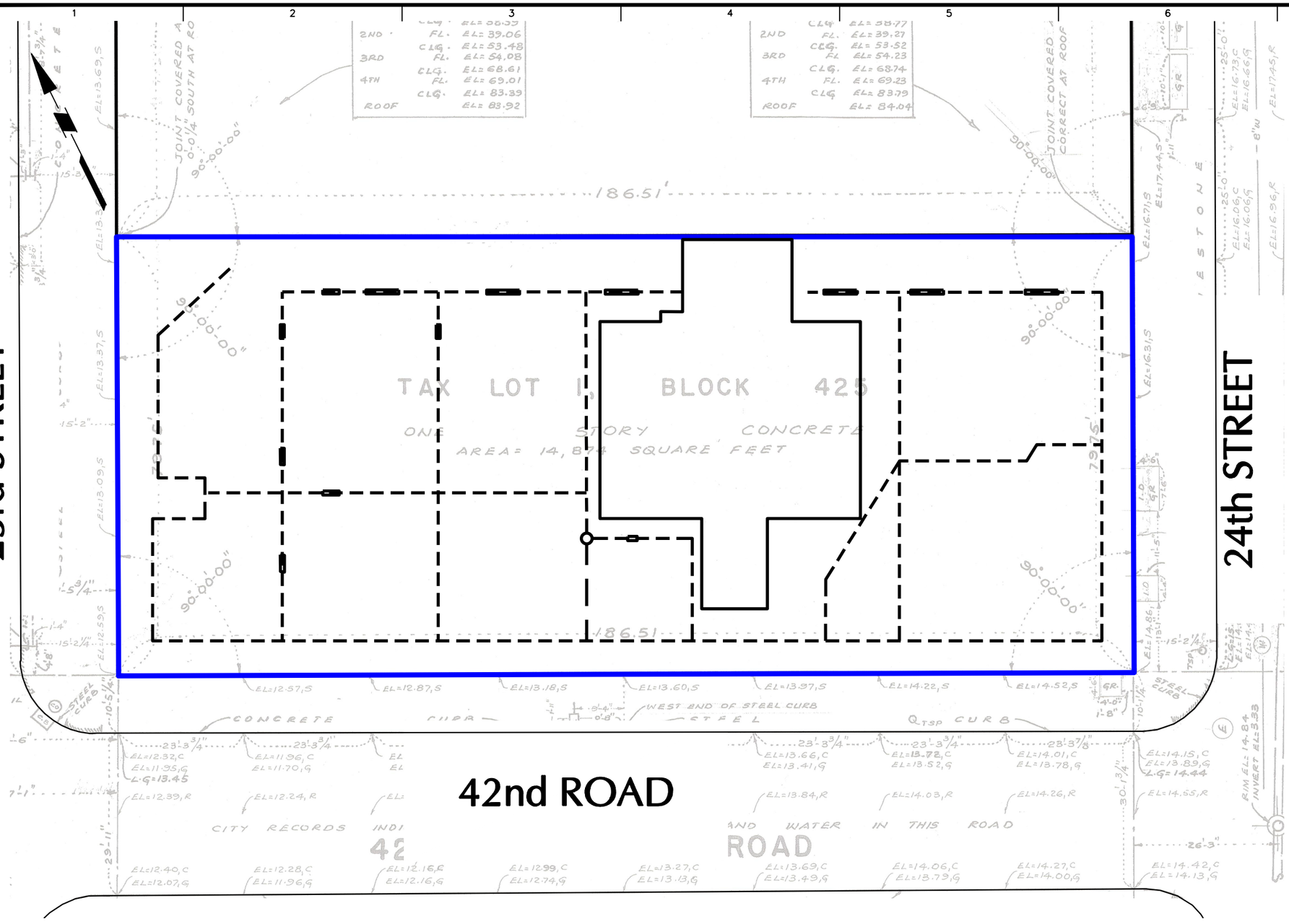
Filename: \\langan.com\data\NY\data6\170244601\Cadd Data - 170244601\2D-DesignFiles\Environmental\PRR\Figure 1 - Site Location Map.dwg Date: 3/20/2017 Time: 11:07 User: knagotko Style Table: Langan.stb Layout: ANSIA-BP



LEGEND:

- SITE BOUNDARY
- 4-INCH DIAMETER VAPOR COLLECTION PIPE
- SLEEVE THROUGH GRADE BEAM
- AREA NOT DEPRESSURIZED (SEE NOTES 2 AND 3)

GENERAL NOTES:

1. BACKGROUND PLANS TAKEN FROM A SURVEY DRAWING BY EARL B. LOVELL - S. P. BELCHER, INC. DATED FEBRUARY 26, 2013, AND A DRAWING TITLED "SLAB DEPRESSURIZATION SYSTEM AS BUILT DRAWING", BY NYCO ENVIRONMENTAL & DEWATERING CORP., DATED DECEMBER 12, 2014.
2. THE DEEP ELEVATOR PIT WAS NOT DEPRESSURIZED BECAUSE IT EXTENDS BELOW THE WATER TABLE AND IS WATERPROOFED IN ACCORDANCE WITH THE FOUNDATION DRAWINGS AND SPECIFICATIONS.
3. THE CORE MAT WAS NOT DEPRESSURIZED BECAUSE IT IS 72-INCHES THICK AND

20 0 5 10 20
SCALE IN FEET

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

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Collectively known as Langan

Project
23-01 42nd ROAD
BLOCK No. 425, LOT No. 1
LONG ISLAND CITY
QUEENS NEW YORK

Figure Title
AS-BUILT SMD SYSTEM LAYOUT PLAN

Project No. 170244602	Figure No. 2
Date 02/14/2017	
Scale 1" = 20'	
Drawn By PMM	
Submission Date –	Sheet 2 of 3

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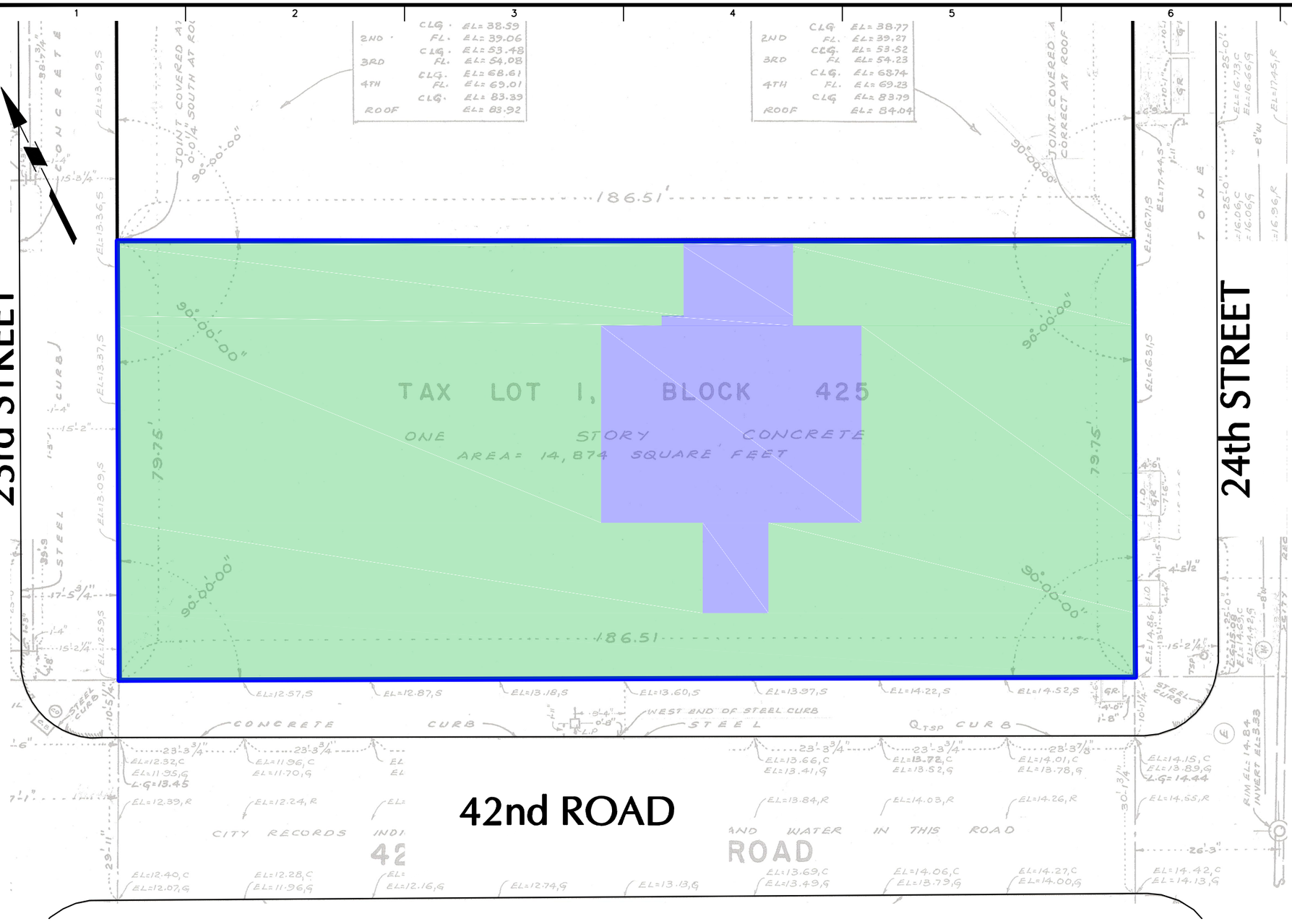
Filename: \\langan.com\data\NY\data6\170244601\Cadd Data - 170244601\2D-DesignFiles\Environmental\PRR\Figure 2 - SMD System Layout Plan.dwg Date: 2/14/2017 Time: 10:19 User: vdepaula Style Table: Langan.stb Layout: ANSIB-BL



LEGEND:

- PROPERTY BOUNDARY LINE/ EXTENT OF CONCRETE BUILDING SLAB
- VAPOR BARRIER EXTENTS
- WATERPROOFING EXTENTS

NOTES:

1. BACKGROUND PLANS TAKEN FROM A SURVEY DRAWING BY EARL B. LOVELL – S. P. BELCHER, INC. DATED FEBRUARY 26, 2013, AND A DRAWING TITLED "FOUNDATION PLAN AS BUILT DRAWING", BY NYCO ENVIRONMENTAL & DEWATERING CORP., DATED DECEMBER 15, 2014.
2. VAPOR BARRIER MEMBRANE CONSISTED OF FLORPRUFE 120 AND WAS INSTALLED ABOVE THE SUBMEMBRANE DEPRESSURIZATION SYSTEM STONE LAYER AND BONDED TO THE BOTTOM OF THE FIRST–FLOOR SLAB.
3. WATERPROOFING MEMBRANE CONSISTED OF PREPRUFE 300R ON THE BASE AND PREPRUFE 150R ON SIDEWALLS AND WAS BONDED TO THE BOTTOM AND OUTSIDE WALLS OF THE SLABS FOR THE ELEVATOR PIT AND CORE MAT.

20 0 5 10 20
SCALE IN FEET

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Langan International LLC
Collectively known as Langan

Project
23-01 42nd ROAD
BLOCK No. 425, LOT No. 1
LONG ISLAND CITY
QUEENS NEW YORK

Figure Title
COMPOSITE COVER LAYOUT PLAN

Project No. 170244602	Figure No. 3
Date 02/14/2017	
Scale 1" = 20'	
Drawn By PMM	
Submission Date –	Sheet 3 of 3

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Filename: \\langan.com\data\NY\data6\170244601\Cadd Data - 170244601\2D-DesignFiles\Environmental\PRR\Figure 3 - Composite Cover System Plan.dwg Date: 2/14/2017 Time: 10:23 User: vdepaula Style Table: Langan.stb Layout: ANSIB-BL

Appendix A

Environmental Easement

NYC Finance

August 31, 2015

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NEW YORK, NY 10022

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Thank you.

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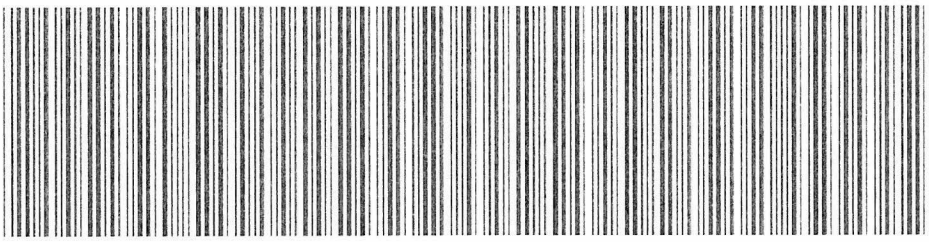

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RECORDING AND ENDORSEMENT COVER PAGE **PAGE 1 OF 10**

Document ID: 2015082401131001 Document Date: 07-31-2015 Preparation Date: 08-24-2015
Document Type: EASEMENT
Document Page Count: 9

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KARY TORRES

PROPERTY DATA

Borough	Block	Lot	Unit	Address
QUEENS	425	1	Entire Lot	23-01 42ND ROAD

Property Type: COMMERCIAL REAL ESTATE

CROSS REFERENCE DATA

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

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GRANTOR/SELLER:
QPS 23-10 DEVELOPMENT LLC
5 EAST 17TH STREET, 2ND FLOOR
NEW YORK, NY 10003

GRANTEE/BUYER:
PEOPLE OF STATE OF NEW YORK
BY COMMISSIONER DEPT OF ENVIRONMENTAL CONSERVATION, 625 BROADWAY
ALBANY, NY 12233

FEES AND TAXES

Mortgage :		
Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	82.00
Affidavit Fee:	$	0.00

Filing Fee:	$	100.00
NYC Real Property Transfer Tax:	$	0.00
NYS Real Estate Transfer Tax:	$	0.00

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK
Recorded/Filed 08-31-2015 13:31
City Register File No.(CRFN): **2015000302414**

City Register Official Signature

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

THIS INDENTURE made this 31st day of July, 2015, between Owner(s) QPS 23-10 Development LLC, having an office at 5 East 17th Street, 2nd Floor, New York, NY 10003, County of New York, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

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

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

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

WHEREAS, Grantor, is the owner of real property located at the address of 23-01 42nd Road in the City of New York, County of Queens and State of New York, known and designated on the tax map of the New York City Department of Finance as tax map parcel number: Block 425 Lot 1, being the same as that property conveyed to Grantor by deed dated December 28, 2012 and recorded in the City Register of the City of New York in CFRN #201300001222248. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately .3415 +/- acres, and is hereinafter more fully described in the Land Title Survey dated December 15, 2014 prepared by Earl B. Lovell – S.P. Belcher, Inc., which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is

extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: C241152-09-13, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement")

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation

pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

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

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

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

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

(i) are in-place;

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

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

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

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

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

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

(7) the information presented is accurate and complete.

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

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

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

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

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

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

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

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

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

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

Parties shall address correspondence to:

Site Number: C241152
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

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

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

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

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

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

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

Remainder of Page Intentionally Left Blank

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

QPS 23-10 Development LLC:

By: _____

Print Name: KEVIN MALONEY

Title: AUTHORIZED SIGNATORY Date: 6/30/15

Grantor's Acknowledgment

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

On the 30TH day of JUNE, in the year 2015, before me, the undersigned, personally appeared KEVIN MALONEY, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Notary Public - State of New York

FRANKLIN R. KAIMAN
Notary Public, State of New York
No. 02KA4663586
Qualified in Westchester County
Commission Expires February 28, 2018

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

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

Grantee's Acknowledgment

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

On the 31st day of July, in the year 2015, before me, the undersigned, personally appeared Robert W. Schick, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2016

SCHEDULE "A" PROPERTY DESCRIPTION

ALL THAT LOT OR PARCEL OF LAND, WITH THE BUILDINGS AND IMPROVEMENTS THEREON ERECTED, SITUATE IN THE BOROUGH AND COUNTY OF QUEENS, CITY AND STATE OF NEW YORK, MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE CORNER FORMED- BY THE INTERSECTION OF THE EASTERLY SIDE OF ELY AVENUE AND THE NORTHERLY SIDE OF HENRY STREET;

RUNNING THENCE EASTERLY ALONG THE NORTHERLY SIDE OF HENRY STREET 186 FEET, 6 INCHES TO THE CORNER FORMED BY THE INTERSECTION OF THE NORTHERLY SIDE OF HENRY STREET WITH THE WESTERLY SIDE OF WILLIAM STREET;

THENCE NORTHERLY ALONG THE WESTERLY SIDE OF WILLIAM STREET 79 FEET 9 INCHES;

THENCE WESTERLY PARALLEL WITH HENRY STREET 186 FEET 6 INCHES TO THE EASTERLY SIDE OF ELY AVENUE AT A POINT THEREIN DISTANT 79 FEET 9 INCHES NORTHERLY FROM THE POINT OF BEGINNING;

THENCE SOUTHERLY ALONG THE EASTERLY SIDE OF ELY AVENUE 79 FEET 9 INCHES TO THE POINT OR PLACE OF BEGINNING.

CONTAINING 14,874 SQUARE FEET (0.3415 ACRE)

Appendix B

SMD System Installation Record

Mitigation System Installation Record

☐ Structure was sampled previously

System Information

Site No: C241152

System ID:

Site Name: 23-01 42nd Rd Long Island City

Owner Name: QPS 23-10 Development LLC ☐ Owner Occupied

System Address: 23-01 42nd Road, Long Island City Telephone: 212-610-2800

City: New York (Queens) Zip: 11101 Alt. Telephone:

Contractor Information

Installer Name: Centrifugal Associates Company: Centrifugal Associates Group LLC

Telephone: 917-577-8039

Building Conditions Building Type: Multi-Unit Residence

Slab Integrity: ○ Poor ○ Average ○ Good ◉ Excellent

Slab Penetrations: ☒ Sump ☒ Floor drain ☐ Perimeter drain ☐ Other

Describe:

Observed Water: ○ Dry ○ Damp ○ Sump only ◉ Standing

Describe:

From interior construction

System Installation

Installation Type: Sub-Slab Depressurization (Active) Date Installed:

Slab Thickess (inches): >5 in.

Subslab Material: Gravel Subslab Moisture: Dry

Number of Suction Points: 1 Number of Fans Installed: 1

	☒ Fan #1 Operating	☐ Fan #2 Operating	☐ Fan #3 Operating
Fan Model No(s):	3BA1530-7A536		
Fan Serial No(s):	ATF-200-15124		
Final U-Tube Levels:			

Additional Mitigation Elements (check all that apply):

☐ Drainjer ☒ Membrane ☐ Sealed cracks ☒ New floor ☒ Rain cap ☐ Other

Comments:

Communication Testing

Test Method: Smoke test Meter Type/Manufacturer: Drager

Location	Reading/Result	Dist. From Suction Point (ft)	Passed?
Next to Riser	N/A	N/A	☒
			☐
			☐
			☐
			☐

NORTH

System Sketch
(indicate notable features, location of extraction points, and communication test holes)

AIRTECH CENTRAL SYSTEM
STARTUP CHECKLIST/SIGN-OFF SHEET

Date: 1/27/2017 **Customer:** QPS 23-10 Development LLC
Project/Airtech Job#:
System Model/Type: 3BA1530-7A536
Serial Number: ATF-200-15124

VERIFY THE FOLLOWING:

I. Installation

A) Location
- 1) Adequate room for servicing ☒
- 2) Adequate room for cooling ☒

B) Piping
- 1) Adequate sizing ☒
- 2) Hangers/support ☒
- 3) Free of liquid/debris ☒
- 4) Exhaust line provided with rain cap or gooseneck ☒

C) Electrical (ph / Hz / Volts) ☒

II. Service and Operation

- A) Check relief valve location (clean; dry) ☒
- B) Jog pump on/off to insure correct rotation ☒
- C) Run system with inlet isolation valve partially open (4-5"Hg vacuum) ☐ N/A
- D) Check for unusual noise or vibration ☒
- E) Place on line (valves open) ☒
- F) Remote alarm panel installed and connected/functioning ☐ No

System installation and function is satisfactory Yes, with exceptions

Notes:
1. Exposed piping must be labeled per drawings.
2. Remote alarm not installed.
3. Needs vacuum gauge just before airfilter

Albert Tashji 1/27/2017
Checked by: Date

Approved by: Date

Appendix C

SMD System Inspection Checklist

SSD SYSTEM INSPECTION CHECKLIST

Site Name: 23-01 42nd Road Location: Long Island City, NY Project Number: 170244602

Inspector Name: Eric Judge & Albert Tashji Date: 01/30/2017 Weather Conditions: Clear, Windy, 30s degrees Fahrenheit

Reason for Inspection (i.e., routine, severe weather condition, etc.): Post Construction

Check one of the following:
(Y: Yes N: No NA: Not Applicable)

		Y	N	NA	Normal Situation	Remarks
	Records					
1	Is the Operations & Maintenance Plan readily available on-site?	✓			Y	
2	Based on site records, when was the last inspection, maintenance, or repair event?			✓		
3	Based on site records, was the system nonoperational for any amount of time since the last inspection, maintenance, or repair event? For how long? Provide details.			✓		
	Alarm System					
4	Do the alarm lights indicate that the system is operational?			✓	Y	Alarm light not installed at the time of inspection
	General System					
5	Is there any construction activity, or indication of any construction activity within the past certification year (including any tenant improvements), that included the breaching of the floor slab, on-site at the time of this inspection?		✓		N	
6	If YES to number 5, is there documentation that the Soil Management Plan, HASP, and CAMP for the site was/is being followed?			✓	NA if N to 5/ Y if Y to 5	
7	If YES to number 5, is there documentation that all breaches in the floor slab have been sealed?			✓	NA if N to 5/ Y if Y to 5	
8	Does all visible SSD piping appear intact and undamaged?	✓			Y	
9	Have any intake points been constructed at the roof near (less than 10 feet) the SSD blower discharge point?		✓		N	
	SSD Blower Unit					
10	Is the SSD blower operational at the time of the inspection?	✓			Y	
11	What is the VelociCalc Meter reading?					> 130 CFM
12	Is the SSD blower expelling air at the discharge point?	✓			Y	

*****If the answer to any of the above questions indicates the SSD system is nonoperational or malfunctioning, or that this EC is in noncompliance, additional remarks must be provided and, where applicable, documentation attached to this checklist detailing additional inspection and repair activities*****

Additional remarks:

1. Exposed piping must be labeled per drawings
2. Remote Alarm not installed
3. Needs vacuum gauge just before air filter

Minimum Inspection Schedule:

- At a minimum, SSD inspections will be conducted quarterly for the first certification year.
- Additional SSD inspections will be conducted following maintenance, repair, or severe weather condition events.
- The minimum schedule will be revised, as necessary, following the first certification year.
- SSD inspection events will use this checklist.

SSD SYSTEM INSPECTION CHECKLIST

Site Name: 23-01 42nd Road Location: Long Island City, NY Project Number: 170244602

Inspector Name: Luke McCartney Date: 04/26/2017 Weather Conditions: Overcast, 50s°F

Reason for Inspection (i.e., routine, severe weather condition, etc.): 1st Quarterly Inspection (1st Year of Operation)

Check one of the following:
(Y: Yes N: No NA: Not Applicable)

		Y	N	NA	Normal Situation	Remarks
	Records					
1	Is the Operations & Maintenance Plan readily available on-site?	✓			Y	
2	Based on site records, when was the last inspection, maintenance, or repair event?	✓				1/30/2017 (Post Start-up Inspection)
3	Based on site records, was the system nonoperational for any amount of time since the last inspection, maintenance, or repair event? For how long? Provide details.		✓		N	
	Alarm System					
4	Do the alarm lights indicate that the system is operational?	✓			Y	Blower linked to Building Maintenance System (BMS) software and property manager's email
	General System					
5	Is there any construction activity, or indication of any construction activity within the past certification year (including any tenant improvements), that included the breaching of the floor slab, on-site at the time of this inspection?		✓		N	
6	If YES to number 5, is there documentation that the Soil Management Plan, HASP, and CAMP for the site was/is being followed?			✓	NA if N to 5/ Y if Y to 5	
7	If YES to number 5, is there documentation that all breaches in the floor slab have been sealed?			✓	NA if N to 5/ Y if Y to 5	
8	Does all visible SSD piping appear intact and undamaged?	✓			Y	
9	Have any intake points been constructed at the roof near (less than 10 feet) the SSD blower discharge point?		✓		N	
	SSD Blower Unit					
10	Is the SSD blower operational at the time of the inspection?	✓			Y	
11	What is the VelociCalc Meter reading?					126 CFM
12	Is the SSD blower expelling air at the discharge point?				Y	

*****If the answer to any of the above questions indicates the SMD system is nonoperational or malfunctioning, or that this EC is in noncompliance, additional remarks must be provided and, where applicable, documentation attached to this checklist detailing additional inspection and repair activities*****

Additional remarks:
1. Exposed piping has been labeled with printed paper and affixed to pipes with packing tape.

Minimum Inspection Schedule:
- At a minimum, SSD inspections will be conducted quarterly for the first certification year.
- Additional SSD inspections will be conducted following maintenance, repair, or severe weather condition events.
- The minimum schedule will be revised, as necessary, following the first certification year.
- SSD inspection events will use this checklist.

Appendix D

Composite Cover System Inspection Checklist

COMPOSITE COVER SYSTEM INSPECTION CHECKLIST

Site Name: 23-01 42nd Road Location: Long Island City, NY Project Number: 170244602

Inspector Name: Eric Judge & Albert Tashji Date: 01/30/2017 Weather Conditions: Clear, Windy, 30s degrees Fahrenheit

Reason for Inspection (i.e., routine, severe condition, etc.): Post Construction

Check one of the following:
(Y: Yes N: No NA: Not Applicable)

		Y	N	NA	Normal Situation	Remarks
	General					
1	What are the current site conditions?	–	–	–	–	Finishing interior construction prior to tentant move-in
	Impermeable Cap					
2	Are there any indications of a breach in the capping system at the time of this inspection?		✓		N	
3	Is there any construction activity, or indication of any construction activity within the past certification year (including any tenant improvements), that included the breaching of the capping system, on-site at the time of this inspection?		✓		N	
4	If YES to number 3, is there documentation that the Soil Management Plan, HASP, and CAMP for the site was/is being followed?			✓	NA	

*****If the answer to any of the above questions indicate non-compliance with ECs for the site, additional remarks must be provided and, where applicable, documentation attached to this checklist detailing additional inspection and repair activities.*****

Additional remarks:

Minimum Inspection Schedule:

- At a minimum, composite cover inspections will be conducted annually, per certification year.
- Additional composite cover inspections will also be conducted at times of severe weather condition events.
- Compoiste cover inspection events will use this checklist.

Appendix E

Site-Wide Inspection Checklist

SITE INSPECTION CHECKLIST

Site Name: 23-01 42nd Road Location: Long Island City, NY Project Number: 170244602

Inspector Name: Eric Judge & Albert Tashji Date: 01/30/2017 Weather Conditions: Clear, Windy, 30s degrees Fahrenheit

Reason for Inspection (i.e., routine, severe weather condition, etc.): Post Construction

Check one of the following:
(Y: Yes N: No NA: Not Applicable)

		Y	N	NA	Normal Situation	Remarks
	General					
1	What are the current site conditions?	--	--	--	--	Finishing interior construction for tenant move in
2	Are all applicable site records (e.g., documentation of construction activity, SMD system maintenance and repair, most current easement, etc.) complete and up to date?	✓			Y	
	Environmental Easement					
3	Has site use (restricted residential) remained the same?	✓			Y	
4	Does it appear that all environmental easement restrictions have been followed?	✓			Y	
	Impermeable Cap					
5	Are there any indications of a breach in the capping system at the time of this inspection?		✓		N	
6	Are there any cracks in the building slabs?		✓		N	
7	Are there any cracks in the building walls?		✓		N	
8	Is there any construction activity, or indication of any construction activity within the past certification year (including any tenant improvements), that included the breaching of the capping system, on-site at the time of this inspection?		✓		N	
9	If YES to number 8, is there documentation that the Soil Management Plan, HASP, and CAMP for the site was/is being followed?			✓	NA if N to 6/ Y if Y to 6	

*****If the answer to any of the above questions indicate non-compliance with any IC/ECs for the site, additional remarks must be provided and, where applicable, documentation attached to this checklist detailing additional inspection and repair activities.*****

Additional remarks:

Minimum Inspection Schedule:

- At a minimum, site-wide inspections will be conducted annually, per certification year.
- Additional site-wide inspections will also be conducted at times of severe condition events.
- Site-wide inspection events will use this checklist.

LANGAN

Appendix F

NYSDOH Indoor Air Quality Questionnaire and Building Inventory

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Eric Judge / Albert Tashji Date/Time Prepared 1.30.17 / 13:00

Preparer's Affiliation Langan Phone No. 212.479.5400

Purpose of Investigation Post Construction

1. OCCUPANT:

Interviewed: Y /(N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: (Y)/ N

Last Name: _____ First Name: QPS 23-10 Development LLC

Address: 111 5th Ave, 6th Floor, New York, NY, 10011

County: United States

Home Phone: _____ Office Phone: 718-706-9855

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

(Residential)	School	Commercial/Multi-use
Industrial	Church	Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	(Townhouses/Condos)
Modular	Log Home	Other:_____

If multiple units, how many? 391

If the property is commercial, type?

Business Type(s) _____

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 45 Building age 0

Is the building insulated? (Y) / N How air tight? (Tight) / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Central HVAC

Airflow near source

Mechanical ventilation

Outdoor air infiltration

None

Infiltration into air ducts

None

5. **BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply)

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type:	full	crawlspace	slab	other None
c. Basement floor:	(concrete)	dirt	stone	other _____
d. Basement floor:	(uncovered)	covered	covered with _____	
e. Concrete floor:	(unsealed)	sealed	sealed with _____	
f. Foundation walls:	(poured)	block	stone	other _____
g. Foundation walls:	(unsealed)	sealed	sealed with _____	
h. The basement is:	wet	damp	(dry)	moldy
i. The basement is:	finished	(unfinished)	partially finished	
j. Sump present?	(Y) / N			
k. Water in sump?	(Y) / N / not applicable			

Basement/Lowest level depth below grade: 0 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

3" diameter floor drains, building sump

6. **HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Natural Gas

Boiler/furnace located in:	Basement	Outdoors	(Main Floor)	Other _____
Air conditioning:	(Central Air)	Window units	Open Windows	None

Are there air distribution ducts present? (Y)/ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

New condition building wide

7. OCCUPANCY

Is basement/lowest level occupied? Full-time · Occasionally Seldom Almost Never

Level	General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)
Basement	None
1st Floor	Lobby & Utilities
2nd Floor	Residential
3rd Floor	Residential
4th Floor	Residential

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y /(N)

b. Does the garage have a separate heating unit? Y / N /(NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N /(NA) Please specify_____

d. Has the building ever had a fire? Y /(N) When?_____

e. Is a kerosene or unvented gas space heater present? Y /(N) Where?_____

f. Is there a workshop or hobby/craft area? Y /(N) Where & Type?_____

g. Is there smoking in the building? Y /(N) How frequently?_____

h. Have cleaning products been used recently? (Y)/ N When & Type? Construction related products

i. Have cosmetic products been used recently? Y /(N) When & Type?_____

j. Has painting/staining been done in the last 6 months? (Y) / N Where & When? Throughout, during construction

k. Is there new carpet, drapes or other textiles? (Y) / N Where & When? Throughout, during construction

l. Have air fresheners been used recently? Y (N) When & Type? _____

m. Is there a kitchen exhaust fan? (Y) / N If yes, where vented? Centrally to the roof

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? Centrally to the roof

o. Is there a clothes dryer? (Y) / N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y (N) When & Type? _____

Are there odors in the building? Y (N)
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No
Yes, use dry-cleaning infrequently (monthly or less) (Unknown)
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? (Y) / N Date of Installation: _____
Is the system active or passive? (Active) Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

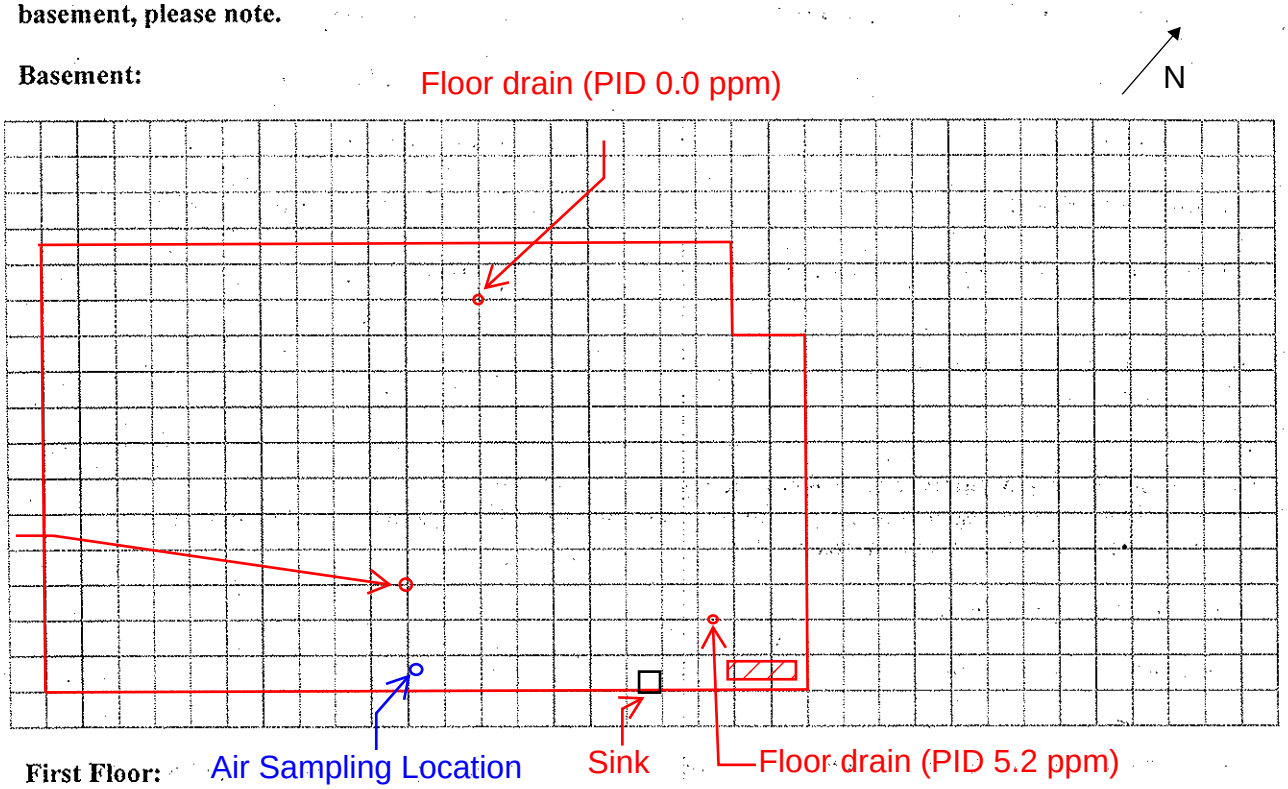
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

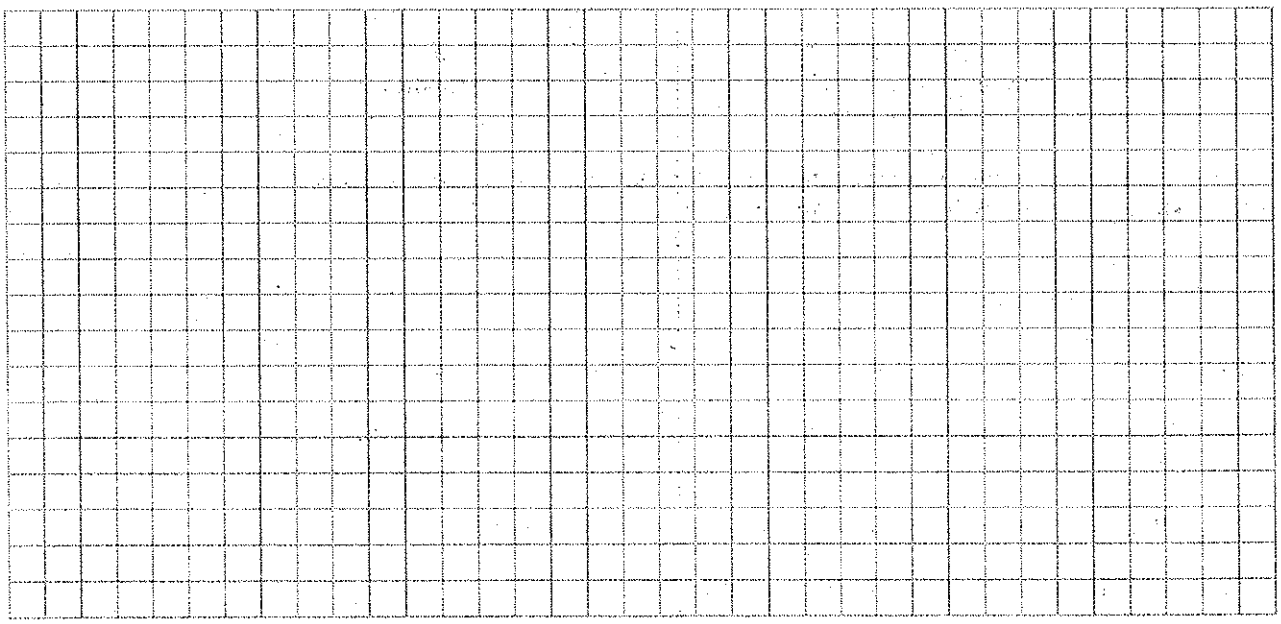
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: _____

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
	No Chemicals were observed where the air samples were collected					

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Appendix G

Laboratory Report

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Paul McMahon

Report Date: 02/03/2017
Client Project ID: 170244602
York Project (SDG) No.: 17A1033

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 02/03/2017
Client Project ID: 170244602
York Project (SDG) No.: 17A1033

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Paul McMahon

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on January 31, 2017 and listed below. The project was identified as your project: **170244602**.

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

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

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

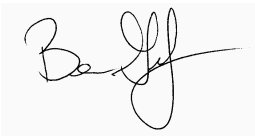
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

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

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
17A1033-01	SMDRiser_013017	Soil Vapor	01/30/2017	01/31/2017
17A1033-02	IA_013017	Indoor Ambient Air	01/30/2017	01/31/2017
17A1033-03	AA_013017	Outdoor Ambient Ai	01/30/2017	01/31/2017

General Notes for York Project (SDG) No.: 17A1033

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
9. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 02/03/2017

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SMDRiser_013017 **York Sample ID:** 17A1033-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17A1033	170244602	Soil Vapor	January 30, 2017 3:00 pm	01/31/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	13	13	18.67	EPA TO-15 Certifications:	01/31/2017 13:29	01/31/2017 16:13	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	10	10	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	13	13	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	14	14	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	10	10	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	7.6	7.6	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	7.4	7.4	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	14	14	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**14**		ug/m³	9.2	9.2	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	14	14	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	11	11	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	7.6	7.6	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	8.6	8.6	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
76-14-2	**1,2-Dichlorotetrafluoroethane**	**140**		ug/m³	13	13	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	9.2	9.2	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	12	12	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	11	11	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	8.6	8.6	18.67	EPA TO-15 Certifications:	01/31/2017 13:29	01/31/2017 16:13	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	11	11	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	13	13	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
78-93-3	2-Butanone	ND		ug/m³	5.5	5.5	18.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 13:29	01/31/2017 16:13	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	15	15	18.67	EPA TO-15 Certifications:	01/31/2017 13:29	01/31/2017 16:13	LDS

Sample Information

Client Sample ID: SMDRiser_013017 **York Sample ID:** 17A1033-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17A1033	170244602	Soil Vapor	January 30, 2017 3:00 pm	01/31/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	29	29	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	7.6	7.6	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
67-64-1	**Acetone**	**29**		ug/m³	8.9	8.9	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
107-13-1	Acrylonitrile	ND		ug/m³	4.1	4.1	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
71-43-2	**Benzene**	**210**		ug/m³	6.0	6.0	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
100-44-7	Benzyl chloride	ND		ug/m³	9.7	9.7	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	13	13	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
75-25-2	Bromoform	ND		ug/m³	19	19	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
74-83-9	Bromomethane	ND		ug/m³	7.2	7.2	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
75-15-0	**Carbon disulfide**	**44**		ug/m³	5.8	5.8	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
56-23-5	Carbon tetrachloride	ND		ug/m³	2.9	2.9	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
108-90-7	**Chlorobenzene**	**120**		ug/m³	8.6	8.6	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
75-00-3	Chloroethane	ND		ug/m³	4.9	4.9	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
67-66-3	Chloroform	ND		ug/m³	9.1	9.1	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
74-87-3	Chloromethane	ND		ug/m³	3.9	3.9	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	7.4	7.4	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	8.5	8.5	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
110-82-7	**Cyclohexane**	**280**		ug/m³	6.4	6.4	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	16	16	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
75-71-8	**Dichlorodifluoromethane**	**54**		ug/m³	9.2	9.2	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	13	13	18.67	EPA TO-15 Certifications:	01/31/2017 13:29	01/31/2017 16:13	LDS
100-41-4	**Ethyl Benzene**	**130**		ug/m³	8.1	8.1	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	20	20	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS

Sample Information

Client Sample ID: SMDRiser_013017 **York Sample ID:** 17A1033-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17A1033	170244602	Soil Vapor	January 30, 2017 3:00 pm	01/31/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-63-0	Isopropanol	ND		ug/m³	9.2	9.2	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	7.6	7.6	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	6.7	6.7	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
75-09-2	Methylene chloride	ND		ug/m³	13	13	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
142-82-5	**n-Heptane**	**250**		ug/m³	7.7	7.7	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
110-54-3	**n-Hexane**	**170**		ug/m³	6.6	6.6	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
95-47-6	**o-Xylene**	**70**		ug/m³	8.1	8.1	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
179601-23-1	**p- & m- Xylenes**	**340**		ug/m³	16	16	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
622-96-8	*** p-Ethyltoluene**	**16**		ug/m³	9.2	9.2	18.67	EPA TO-15 Certifications:	01/31/2017 13:29	01/31/2017 16:13	LDS
115-07-1	* Propylene	ND		ug/m³	3.2	3.2	18.67	EPA TO-15 Certifications:	01/31/2017 13:29	01/31/2017 16:13	LDS
100-42-5	Styrene	ND		ug/m³	8.0	8.0	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
127-18-4	**Tetrachloroethylene**	**8.9**		ug/m³	3.2	3.2	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	11	11	18.67	EPA TO-15 Certifications:	01/31/2017 13:29	01/31/2017 16:13	LDS
108-88-3	**Toluene**	**180**		ug/m³	7.0	7.0	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	7.4	7.4	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	8.5	8.5	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
79-01-6	**Trichloroethylene**	**4.0**		ug/m³	2.5	2.5	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
75-69-4	**Trichlorofluoromethane (Freon 11)**	**24**		ug/m³	10	10	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
108-05-4	Vinyl acetate	ND		ug/m³	6.6	6.6	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
593-60-2	Vinyl bromide	ND		ug/m³	8.2	8.2	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS
75-01-4	**Vinyl Chloride**	**11**		ug/m³	4.8	4.8	18.67	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 16:13	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*103 %*	*72-118*

Sample Information

Client Sample ID: IA_013017 **York Sample ID:** 17A1033-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17A1033	170244602	Indoor Ambient Air	January 30, 2017 3:00 pm	01/31/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.79	0.79	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.63	0.63	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.79	0.79	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.89	0.89	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.63	0.63	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.47	0.47	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.46	0.46	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.86	0.86	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.57	0.57	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.89	0.89	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.70	0.70	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.47	0.47	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.54	0.54	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.81	0.81	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.57	0.57	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
106-99-0	1,3-Butadiene	ND		ug/m³	0.77	0.77	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.70	0.70	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.54	0.54	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.70	0.70	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
123-91-1	1,4-Dioxane	ND		ug/m³	0.83	0.83	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
78-93-3	**2-Butanone**	**1.6**		ug/m³	0.34	0.34	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
591-78-6	* 2-Hexanone	ND		ug/m³	0.95	0.95	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	1.8	1.8	1.158	EPA TO-15	01/31/2017 13:29	01/31/2017 18:00	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

Sample Information

Client Sample ID: IA_013017 **York Sample ID:** 17A1033-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17A1033	170244602	Indoor Ambient Air	January 30, 2017 3:00 pm	01/31/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.47	0.47	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
67-64-1	**Acetone**	**10**		ug/m³	0.55	0.55	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.25	0.25	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
71-43-2	**Benzene**	**0.55**		ug/m³	0.37	0.37	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.60	0.60	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.78	0.78	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
75-25-2	Bromoform	ND		ug/m³	1.2	1.2	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
74-83-9	Bromomethane	ND		ug/m³	0.45	0.45	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
75-15-0	**Carbon disulfide**	**0.61**		ug/m³	0.36	0.36	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
56-23-5	**Carbon tetrachloride**	**0.36**		ug/m³	0.18	0.18	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.53	0.53	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
75-00-3	Chloroethane	ND		ug/m³	0.31	0.31	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
67-66-3	Chloroform	ND		ug/m³	0.57	0.57	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
74-87-3	**Chloromethane**	**1.0**		ug/m³	0.24	0.24	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.46	0.46	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.53	0.53	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.40	0.40	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.99	0.99	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
75-71-8	**Dichlorodifluoromethane**	**2.0**		ug/m³	0.57	0.57	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	0.83	0.83	1.158	EPA TO-15 Certifications:	01/31/2017 13:29	01/31/2017 18:00	LDS
100-41-4	**Ethyl Benzene**	**0.65**		ug/m³	0.50	0.50	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.2	1.2	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
67-63-0	**Isopropanol**	**2.8**		ug/m³	0.57	0.57	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS

Sample Information

Client Sample ID: IA_013017 **York Sample ID:** 17A1033-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17A1033	170244602	Indoor Ambient Air	January 30, 2017 3:00 pm	01/31/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m³	0.47	0.47	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.42	0.42	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
75-09-2	**Methylene chloride**	**1.5**		ug/m³	0.80	0.80	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
142-82-5	**n-Heptane**	**0.47**		ug/m³	0.47	0.47	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
110-54-3	n-Hexane	ND		ug/m³	0.41	0.41	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
95-47-6	o-Xylene	ND		ug/m³	0.50	0.50	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
179601-23-1	**p- & m- Xylenes**	**2.1**		ug/m³	1.0	1.0	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.57	0.57	1.158	EPA TO-15 Certifications:	01/31/2017 13:29	01/31/2017 18:00	LDS
115-07-1	* Propylene	ND		ug/m³	0.20	0.20	1.158	EPA TO-15 Certifications:	01/31/2017 13:29	01/31/2017 18:00	LDS
100-42-5	Styrene	ND		ug/m³	0.49	0.49	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
127-18-4	**Tetrachloroethylene**	**0.39**		ug/m³	0.20	0.20	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.68	0.68	1.158	EPA TO-15 Certifications:	01/31/2017 13:29	01/31/2017 18:00	LDS
108-88-3	**Toluene**	**4.9**		ug/m³	0.44	0.44	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.46	0.46	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.53	0.53	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.16	0.16	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.2**		ug/m³	0.65	0.65	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.41	0.41	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.51	0.51	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.30	0.30	1.158	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 18:00	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*102 %*	*72-118*

Sample Information

Client Sample ID: AA_013017 **York Sample ID:** 17A1033-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17A1033	170244602	Outdoor Ambient Air	January 30, 2017 12:00 am	01/31/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.77	0.77	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.61	0.61	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.77	0.77	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.86	0.86	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.61	0.61	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.45	0.45	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.44	0.44	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.83	0.83	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.55	0.55	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.86	0.86	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.67	0.67	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.45	0.45	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.52	0.52	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.78	0.78	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.55	0.55	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
106-99-0	1,3-Butadiene	ND		ug/m³	0.74	0.74	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.67	0.67	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.52	0.52	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.67	0.67	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
123-91-1	1,4-Dioxane	ND		ug/m³	0.81	0.81	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
78-93-3	**2-Butanone**	**0.53**		ug/m³	0.33	0.33	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		
591-78-6	* 2-Hexanone	ND		ug/m³	0.92	0.92	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	1.8	1.8	1.12	EPA TO-15	01/31/2017 13:29	01/31/2017 19:01	LDS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY10854-Que		

Sample Information

Client Sample ID: AA_013017 **York Sample ID:** 17A1033-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17A1033	170244602	Outdoor Ambient Air	January 30, 2017 12:00 am	01/31/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.46	0.46	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
67-64-1	**Acetone**	**5.2**		ug/m³	0.53	0.53	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.24	0.24	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
71-43-2	**Benzene**	**0.39**		ug/m³	0.36	0.36	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.58	0.58	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.75	0.75	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
75-25-2	Bromoform	ND		ug/m³	1.2	1.2	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
74-83-9	Bromomethane	ND		ug/m³	0.43	0.43	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.35	0.35	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
56-23-5	**Carbon tetrachloride**	**0.42**		ug/m³	0.18	0.18	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.52	0.52	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
75-00-3	Chloroethane	ND		ug/m³	0.30	0.30	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
67-66-3	Chloroform	ND		ug/m³	0.55	0.55	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
74-87-3	**Chloromethane**	**1.2**		ug/m³	0.23	0.23	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.44	0.44	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.51	0.51	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.39	0.39	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.95	0.95	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
75-71-8	**Dichlorodifluoromethane**	**2.0**		ug/m³	0.55	0.55	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	0.81	0.81	1.12	EPA TO-15 Certifications:	01/31/2017 13:29	01/31/2017 19:01	LDS
100-41-4	Ethyl Benzene	ND		ug/m³	0.49	0.49	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.2	1.2	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
67-63-0	Isopropanol	ND		ug/m³	0.55	0.55	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS

Sample Information

Client Sample ID: AA_013017 **York Sample ID:** 17A1033-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17A1033	170244602	Outdoor Ambient Air	January 30, 2017 12:00 am	01/31/2017

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m³	0.46	0.46	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.40	0.40	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
75-09-2	**Methylene chloride**	**8.9**		ug/m³	0.78	0.78	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
142-82-5	n-Heptane	ND		ug/m³	0.46	0.46	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
110-54-3	n-Hexane	ND		ug/m³	0.39	0.39	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
95-47-6	o-Xylene	ND		ug/m³	0.49	0.49	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.97	0.97	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.55	0.55	1.12	EPA TO-15 Certifications:	01/31/2017 13:29	01/31/2017 19:01	LDS
115-07-1	* Propylene	ND		ug/m³	0.19	0.19	1.12	EPA TO-15 Certifications:	01/31/2017 13:29	01/31/2017 19:01	LDS
100-42-5	Styrene	ND		ug/m³	0.48	0.48	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
127-18-4	**Tetrachloroethylene**	**0.30**		ug/m³	0.19	0.19	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.66	0.66	1.12	EPA TO-15 Certifications:	01/31/2017 13:29	01/31/2017 19:01	LDS
108-88-3	**Toluene**	**1.9**		ug/m³	0.42	0.42	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.44	0.44	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.51	0.51	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.15	0.15	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.4**		ug/m³	0.63	0.63	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.39	0.39	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.49	0.49	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.29	0.29	1.12	EPA TO-15 Certifications:	01/31/2017 13:29 NELAC-NY10854,NJDEP,NELAC-NY10854-Que	01/31/2017 19:01	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*101 %*	*72-118*

Analytical Batch Summary

Batch ID: BA71259 **Preparation Method:** EPA TO15 PREP **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
17A1033-01	SMDRiser_013017	01/31/17
17A1033-02	IA_013017	01/31/17
17A1033-03	AA_013017	01/31/17
BA71259-BLK1	Blank	01/31/17
BA71259-BS1	LCS	01/31/17
BA71259-DUP1	Duplicate	01/31/17

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA71259 - EPA TO15 PREP											
Blank (BA71259-BLK1)											Prepared & Analyzed: 01/31/2017
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.40	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.40	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA71259 - EPA TO15 PREP											
Blank (BA71259-BLK1)								Prepared & Analyzed: 01/31/2017			
n-Hexane	ND	0.35	ug/m³								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.26	"								
Surrogate: p-Bromofluorobenzene	*9.46*		*ppbv*	*10.0*		*94.6*	*72-118*				
LCS (BA71259-BS1)								Prepared & Analyzed: 01/31/2017			
1,1,1,2-Tetrachloroethane	7.73		ppbv	10.0		77.3	70-130				
1,1,1-Trichloroethane	8.00		"	10.0		80.0	70-130				
1,1,2,2-Tetrachloroethane	7.78		"	10.0		77.8	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	7.67		"	10.0		76.7	70-130				
1,1,2-Trichloroethane	7.94		"	10.0		79.4	70-130				
1,1-Dichloroethane	7.78		"	10.0		77.8	70-130				
1,1-Dichloroethylene	7.73		"	10.0		77.3	70-130				
1,2,4-Trichlorobenzene	7.06		"	10.0		70.6	70-130				
1,2,4-Trimethylbenzene	8.67		"	10.0		86.7	70-130				
1,2-Dibromoethane	8.05		"	10.0		80.5	70-130				
1,2-Dichlorobenzene	8.48		"	10.0		84.8	70-130				
1,2-Dichloroethane	7.90		"	10.0		79.0	70-130				
1,2-Dichloropropane	7.71		"	10.0		77.1	70-130				
1,2-Dichlorotetrafluoroethane	8.86		"	10.0		88.6	70-130				
1,3,5-Trimethylbenzene	8.56		"	10.0		85.6	70-130				
1,3-Butadiene	6.72		"	10.0		67.2	70-130	Low Bias			
1,3-Dichlorobenzene	8.52		"	10.0		85.2	70-130				
1,3-Dichloropropane	7.81		"	10.0		78.1	70-130				
1,4-Dichlorobenzene	8.66		"	10.0		86.6	70-130				
1,4-Dioxane	9.43		"	10.0		94.3	70-130				
2-Butanone	7.50		"	10.0		75.0	70-130				
2-Hexanone	9.70		"	10.0		97.0	70-130				
3-Chloropropene	8.01		"	10.0		80.1	70-130				
4-Methyl-2-pentanone	9.04		"	10.0		90.4	70-130				
Acetone	8.07		"	10.0		80.7	70-130				
Acrylonitrile	8.02		"	10.0		80.2	70-130				
Benzene	10.6		"	10.0		106	70-130				
Benzyl chloride	7.02		"	10.0		70.2	70-130				
Bromodichloromethane	7.72		"	10.0		77.2	70-130				
Bromoform	8.37		"	10.0		83.7	70-130				
Bromomethane	7.75		"	10.0		77.5	70-130				
Carbon disulfide	8.81		"	10.0		88.1	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA71259 - EPA TO15 PREP											
LCS (BA71259-BS1)								Prepared & Analyzed: 01/31/2017			
Carbon tetrachloride	7.78		ppbv	10.0		77.8	70-130				
Chlorobenzene	8.47		"	10.0		84.7	70-130				
Chloroethane	7.32		"	10.0		73.2	70-130				
Chloroform	7.64		"	10.0		76.4	70-130				
Chloromethane	10.8		"	10.0		108	70-130				
cis-1,2-Dichloroethylene	8.48		"	10.0		84.8	70-130				
cis-1,3-Dichloropropylene	8.47		"	10.0		84.7	70-130				
Cyclohexane	11.8		"	10.0		118	70-130				
Dibromochloromethane	8.17		"	10.0		81.7	70-130				
Dichlorodifluoromethane	8.03		"	10.0		80.3	70-130				
Ethyl acetate	11.2		"	10.0		112	70-130				
Ethyl Benzene	8.08		"	10.0		80.8	70-130				
Hexachlorobutadiene	8.85		"	10.0		88.5	70-130				
Isopropanol	6.87		"	10.0		68.7	70-130	Low Bias			
Methyl Methacrylate	8.90		"	10.0		89.0	70-130				
Methyl tert-butyl ether (MTBE)	8.11		"	10.0		81.1	70-130				
Methylene chloride	7.70		"	10.0		77.0	70-130				
n-Heptane	11.0		"	10.0		110	70-130				
n-Hexane	9.11		"	10.0		91.1	70-130				
o-Xylene	8.58		"	10.0		85.8	70-130				
p- & m- Xylenes	16.8		"	20.0		84.1	70-130				
p-Ethyltoluene	8.85		"	10.0		88.5	70-130				
Propylene	8.98		"	10.0		89.8	70-130				
Styrene	8.25		"	10.0		82.5	70-130				
Tetrachloroethylene	7.39		"	10.0		73.9	70-130				
Tetrahydrofuran	10.4		"	10.0		104	70-130				
Toluene	7.84		"	10.0		78.4	70-130				
trans-1,2-Dichloroethylene	7.97		"	10.0		79.7	70-130				
trans-1,3-Dichloropropylene	8.09		"	10.0		80.9	70-130				
Trichloroethylene	7.41		"	10.0		74.1	70-130				
Trichlorofluoromethane (Freon 11)	7.96		"	10.0		79.6	70-130				
Vinyl acetate	7.76		"	10.0		77.6	70-130				
Vinyl bromide	9.07		"	10.0		90.7	70-130				
Vinyl Chloride	7.49		"	10.0		74.9	70-130				
Surrogate: p-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*72-118*				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA71259 - EPA TO15 PREP											
Duplicate (BA71259-DUP1)	*Source sample: 17A1033-03 (AA_013017)								Prepared & Analyzed: 01/31/2017		
1,1,1,2-Tetrachloroethane	ND	0.77	ug/m³		ND					25	
1,1,1-Trichloroethane	ND	0.61	"		ND					25	
1,1,2,2-Tetrachloroethane	ND	0.77	"		ND					25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.86	"		ND					25	
1,1,2-Trichloroethane	ND	0.61	"		ND					25	
1,1-Dichloroethane	ND	0.45	"		ND					25	
1,1-Dichloroethylene	ND	0.44	"		ND					25	
1,2,4-Trichlorobenzene	ND	0.83	"		ND					25	
1,2,4-Trimethylbenzene	ND	0.55	"		ND					25	
1,2-Dibromoethane	ND	0.86	"		ND					25	
1,2-Dichlorobenzene	ND	0.67	"		ND					25	
1,2-Dichloroethane	ND	0.45	"		ND					25	
1,2-Dichloropropane	ND	0.52	"		ND					25	
1,2-Dichlorotetrafluoroethane	ND	0.78	"		ND					25	
1,3,5-Trimethylbenzene	ND	0.55	"		ND					25	
1,3-Butadiene	ND	0.74	"		ND					25	
1,3-Dichlorobenzene	ND	0.67	"		ND					25	
1,3-Dichloropropane	ND	0.52	"		ND					25	
1,4-Dichlorobenzene	ND	0.67	"		ND					25	
1,4-Dioxane	ND	0.81	"		ND					25	
2-Butanone	0.50	0.33	"		0.53				6.45	25	
2-Hexanone	ND	0.92	"		ND					25	
3-Chloropropene	ND	1.8	"		ND					25	
4-Methyl-2-pentanone	ND	0.46	"		ND					25	
Acetone	5.2	0.53	"		5.2				1.03	25	
Acrylonitrile	ND	0.24	"		ND					25	
Benzene	0.39	0.36	"		0.39				0.00	25	
Benzyl chloride	ND	0.58	"		ND					25	
Bromodichloromethane	ND	0.75	"		ND					25	
Bromoform	ND	1.2	"		ND					25	
Bromomethane	ND	0.43	"		ND					25	
Carbon disulfide	ND	0.35	"		ND					25	
Carbon tetrachloride	0.35	0.18	"		0.42				18.2	25	
Chlorobenzene	ND	0.52	"		ND					25	
Chloroethane	ND	0.30	"		ND					25	
Chloroform	ND	0.55	"		ND					25	
Chloromethane	1.1	0.23	"		1.2				9.71	25	
cis-1,2-Dichloroethylene	ND	0.44	"		ND					25	
cis-1,3-Dichloropropylene	ND	0.51	"		ND					25	
Cyclohexane	ND	0.39	"		ND					25	
Dibromochloromethane	ND	0.95	"		ND					25	
Dichlorodifluoromethane	1.9	0.55	"		2.0				2.82	25	
Ethyl acetate	ND	0.81	"		ND					25	
Ethyl Benzene	ND	0.49	"		ND					25	
Hexachlorobutadiene	ND	1.2	"		ND					25	
Isopropanol	ND	0.55	"		ND					25	
Methyl Methacrylate	ND	0.46	"		ND					25	
Methyl tert-butyl ether (MTBE)	ND	0.40	"		ND					25	
Methylene chloride	8.9	0.78	"		8.9				0.436	25	
n-Heptane	ND	0.46	"		ND					25	
n-Hexane	ND	0.39	"		ND					25	

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA71259 - EPA TO15 PREP											
Duplicate (BA71259-DUP1)	*Source sample: 17A1033-03 (AA_013017)								Prepared & Analyzed: 01/31/2017		
o-Xylene	ND	0.49	ug/m³		ND					25	
p- & m- Xylenes	1.2	0.97	"		ND					25	
p-Ethyltoluene	ND	0.55	"		ND					25	
Propylene	ND	0.19	"		ND					25	
Styrene	ND	0.48	"		ND					25	
Tetrachloroethylene	0.30	0.19	"		0.30				0.00	25	
Tetrahydrofuran	ND	0.66	"		ND					25	
Toluene	2.3	0.42	"		1.9				18.2	25	
trans-1,2-Dichloroethylene	ND	0.44	"		ND					25	
trans-1,3-Dichloropropylene	ND	0.51	"		ND					25	
Trichloroethylene	ND	0.15	"		ND					25	
Trichlorofluoromethane (Freon 11)	1.4	0.63	"		1.4				4.44	25	
Vinyl acetate	ND	0.39	"		ND					25	
Vinyl bromide	ND	0.49	"		ND					25	
Vinyl Chloride	ND	0.29	"		ND					25	
Surrogate: p-Bromofluorobenzene	*10.2*		*ppbv*	*10.0*		*102*	*72-118*				

Notes and Definitions

QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

---

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record - AIR

Page ____ of ____

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

York Project No. 17A1033

YORK ANALYTICAL LABORATORIES INC

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: Langan	Company:	Company:	170244602	RUSH - Same Day ☐	Summary Report ____
Address: 360 West 31st Street 8th Floor, NY, NY	Address:	Address:	Purchase Order No.	RUSH - Next Day ☐	Summary w/ QA Summary ____
Phone No. 212-479-5451	Phone No. SAME	Phone No. SAME		RUSH - Two Day ☐	CT RCP Package ____
Contact Person: Paul McMahon	Attention:	Attention:		RUSH - Three Day ☐	NY ASP A Package ____
E-Mail Address: PMcMahon@langan.com	E-Mail Address:	E-Mail Address:	Samples from: CT ___ NY X NJ ___	RUSH - Four Day ☐	NY ASP B/CLP Pkg X
				Standard(5-7 Days) X	NJDEP Reduced ____
					Electronic Deliverables:
					EDD (Specify Type) ____
					Standard Excel X
					Regulatory Comparison Excel ____

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

Eric Judge
Samples Collected/Authorized By (Signature)

Eric Judge
Name (printed)

Air Matrix Codes

AI - INDOOR Ambient Air
AO- OUTDOOR Amb. Air
AE- Vapor Extraction Well/ Process Gas/Effluent
AS- SOIL Vapor/Sub-Slab

Additional Notes:

Please enter the following Field Data

Detection Limits Required

≤ 1 ug/m³ ____
NYSDEC VI Limits X
(VI =vapor instrusion)
NJDEP low level ____
Routine Survey ____
Other ____

Special Instructions

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont.ID	ANALYSES REQUESTED	Sampling Media
SMDRiser_013017	1/30/17	AS	-29.43	-3.93	443	22081	TO-15 VOCs	6 Liter canister X / Tedlar Bag ____
IA_013017	1/30/17	AI	-29.58	-7.83	7268	14193	TO-15 VOCs	6 Liter canister X / Tedlar Bag ____
AA_013017	1/30/17	AO	-27.97	-5.78	7360	20644	TO-15 VOCs	6 Liter canister X / Tedlar Bag ____
								6 Liter canister ____ / Tedlar Bag ____
								6 Liter canister ____ / Tedlar Bag ____
								6 Liter canister ____ / Tedlar Bag ____
								6 Liter canister ____ / Tedlar Bag ____
								6 Liter canister ____ / Tedlar Bag ____
								6 Liter canister ____ / Tedlar Bag ____
								6 Liter canister ____ / Tedlar Bag ____

Comments

Eric Judge — 1/30/17
Samples Relinquished By — Date/Time

E. J — 1/30/17
Samples Relinquished By — Date/Time

JAMES GOMES 1-30-17 17:15
Samples Received By — Date/Time

1-31-17 945.
Samples Received in LAB by — Date/Time

JAMES GOMES 1-30-17 18:25

Appendix H

ICEC Certification Form and NYCDOB Records

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C241152**

Site Name 23-01 42nd Road

Site Address: 23-01 42nd Road Zip Code: 11101
City/Town: Long Island City
County: Queens
Site Acreage: 0.3

Reporting Period: October 19, 2015 to February 19, 2017

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☒	☐
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____
Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C241152 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
425-1	QPS 23-10 Development LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan IC/EC Plan O&M Plan

The institutional control is in the form of an Environmental Easement for the controlled property that:

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

Box 4

Description of Engineering Controls

Parcel	Engineering Control
425-1	Vapor Mitigation Cover System

The engineering controls include:

1. A cover system consisting of either of the structures such as building, pavement, sidewalks comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil exceeded the applicable Soil Cleanup Objectives (SCOs). Where the soil cover was required it is a minimum of two feet of soil, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for restricted residential use. The soil cover was placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetation layer.

2. Operation of a sub-slab depressurization system to prevent the migration of vapors into the building from the subsurface.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. C241152

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Jason Aglazis at 111 5th Ave 6th FL NY, NY,
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

Date 4/11/17

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Jason J. Hayes at LANGAN, 21 Penn Plaza, 8th Fl, New York NY
print name print business address

am certifying as a Qualified Environmental Professional for the QPS 23-10 Development LLC
(Owner or Remedial Party)

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

5/1/2017
Date

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Work Permit Data

Premises: 42-19 23 STREET QUEENS **Filed At: 23-01 42 ROAD QUEENS**

BIN: 4005065 Block: 425 Lot: 1 **Job Type: A3 - ALTERATION TYPE 3**

View Permit History

DOB NOW: *Inspections*

Job No:	420989960			**Fee:**	STANDARD
Permit No:	420989960-01-EQ-OT	**Issued:**	05/28/2015	**Expires:**	05/27/2016
Seq. No.:	02	**Filing Date:**	05/28/2015 ERENEWAL	**Status:**	ISSUED
Work:		**Proposed Job Start:**	06/20/2014	**Work Approved:**	06/20/2014

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - OTHER
THIS APPLICATION IS FOR THE NORTH HOIST. INSTALLATION OF A SINGLE 6000 LBS CAPACITY PERSONNEL/MATERIAL HOIST DURING NEW BLDG CONSTRUCTION, FILED SEPARATELY. HOIST SHALL COMPLY WITH CHAPTER #33 OF THE 2008 CODE. NO CHANGE IN USE, OCCUPANCY OR EGRESS UNDER THIS APPLICATION. ELEVATOR APPLICATION SUBMITTED SEPARATELY TO ELEVATOR DIVISION.

Use: R-2 - RESIDENTIAL: APARTMENT HOUSES **Landmark:** NO **Stories:** 44

Review is requested under Building Code: 2008

Issued to: COLM COEN

GENERAL CONTRACTOR - NON-REGISTERED: GC 037441

Business: S&E BRIDGE & SCAFFOLD LLC

700 COMMERCIAL AVE GROUND FL CARLSTADT NJ 07072

Phone: 201-933-3418

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Work Permit Data

Premises: 42-19 23 STREET QUEENS **Filed At: 23-01 42 ROAD QUEENS**

BIN: 4005065 Block: 425 Lot: 1 **Job Type: A3 - ALTERATION TYPE 3**

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DOB NOW: *Inspections*

Job No:	420989979			**Fee:**	STANDARD
Permit No:	420989979-01-EQ-OT	**Issued:**	05/05/2016	**Expires:**	05/05/2017
Seq. No.:	03	**Filing Date:**	05/05/2016 RENEWAL	**Status:**	ISSUED
Work:		**Proposed Job Start:**	06/23/2014	**Work Approved:**	06/23/2014

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - OTHER
THIS APPLICATION IS FOR THE SOUTH HOIST. INSTALLATION OF A DUAL 6000 LBS CAPACITY PERSONNEL/MATERIAL HOIST DURING NEW BLDG CONSTRUCTION, FILED SEPARATELY. HOIST SHALL COMPLY WITH CHAPTER #33 OF THE 2008 CODE. NO CHANGE IN USE, OCCUPANCY OR EGRESS UNDER THIS APPLICATION. ELEVATOR APPLICATION SUBMITTED SEPARATELY TO ELEVATOR DIVISION.

Use: R-2 - RESIDENTIAL: APARTMENT HOUSES **Landmark:** NO **Stories:** 44

Review is requested under Building Code: 2008

Issued to: COLM COEN

GENERAL CONTRACTOR - NON-REGISTERED: GC 037441

Business: S&E BRIDGE & SCAFFOLD LLC

700 COMMERCIAL AVE GROUND FL CARLSTADT NJ 07072

Phone: 201-933-3418

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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Work Permit Data

Premises: 42-19 23 STREET QUEENS **Filed At: 23-01 42ND ROAD QUEENS**

BIN: 4005065 Block: 425 Lot: 1 **Job Type: A3 - ALTERATION TYPE 3**

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DOB NOW: *Inspections*

Job No:	421086648			**Fee:**	STANDARD
Permit No:	421086648-01-EQ-OT	**Issued:**	02/24/2016	**Expires:**	02/23/2017
Seq. No.:	02	**Filing Date:**	02/24/2016 RENEWAL	**Status:**	ISSUED
Work:		**Proposed Job Start:**	03/18/2015	**Work Approved:**	03/18/2015

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - OTHER
USING BACKER SCAFFOLDING AS PER PLAN. NO CHANGE IN USE OR OCCUPANCY.

Use: R-2 - RESIDENTIAL: APARTMENT HOUSES **Landmark:** NO **Stories:** 39

Review is requested under Building Code: 2008

Issued to: HOWARD ECKER

GENERAL CONTRACTOR - NON-REGISTERED: GC 012784

Business: ECKER WINDOW CORP
ONE ODELL PLAZA YONKERS NY 10701

Phone: 914-776-0000

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Work Permit Data

Premises: 42-19 23 STREET QUEENS **Filed At: 23-01 42 ROAD QUEENS**

BIN: 4005065 Block: 425 Lot: 1 **Job Type: A3 - ALTERATION TYPE 3**

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DOB NOW: *Inspections*

Job No:	421167221			**Fee:**	STANDARD
Permit No:	421167221-01-EQ-SH	**Issued:**	05/13/2016	**Expires:**	05/13/2017
Seq. No.:	02	**Filing Date:**	05/13/2016 RENEWAL	**Status:**	ISSUED
Work:		**Proposed Job Start:**	06/03/2015	**Work Approved:**	06/03/2015

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - SIDEWALK-SHED
INSTALLATION OF 104 LINEAR FEET OF HEAVY DUTY SIDEWALK SHED DURING BUILDING DEMOLITION, FILED SEPARATELY. SIDEWALK SHED SHALL COMPLY WITH CHAPTER #33 OF THE NYC BUILDING CODE. NO CHANGE IN USE, OCCUPANCY OR EGRESS UNDER THIS APPLICATION.

Electrical Application Number for Shed Lighting: A337976

Use: R-2 - RESIDENTIAL: APARTMENT HOUSES **Landmark:** NO **Stories:** 44

Review is requested under Building Code: 2014

Issued to: WILLIAM MIRANDA

GENERAL CONTRACTOR - NON-REGISTERED: GC 612038

Business: DYNAMIC INSTALLATION CORP
68 CONWAY STREET BROOKLYN NY 11207

Phone: 646-517-0244

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Work Permit Data

Premises: 42-19 23 STREET QUEENS **Filed At: 23-01 42ND ROAD QUEENS**

BIN: 4005065 Block: 425 Lot: 1 **Job Type: A3 - ALTERATION TYPE 3**

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DOB NOW: *Inspections*

Job No:	421195325			**Fee:**	STANDARD
Permit No:	421195325-01-EQ-OT	**Issued:**	07/26/2016	**Expires:**	07/26/2017
Seq. No.:	02	**Filing Date:**	07/26/2016 RENEWAL	**Status:**	ISSUED
Work:		**Proposed Job Start:**	07/28/2015	**Work Approved:**	07/28/2015

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - OTHER

USING JEKO MINI CRANE ON FLOORS AS PER PLAN. NO CHANGE IN USE OR OCCUPANCY.

Use: R-2 - RESIDENTIAL: APARTMENT HOUSES **Landmark:** NO **Stories:** 39

Review is requested under Building Code: 2008

Issued to: HOWARD ECKER

GENERAL CONTRACTOR - NON-REGISTERED: GC 012784

Business: ECKER WINDOW CORP

ONE ODELL PLAZA YONKERS NY 10701 **Phone:** 914-776-0000

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Work Permit Data

Premises: 42-19 23 STREET QUEENS **Filed At: 23-01 42ND RD QUEENS**

BIN: 4005065 Block: 425 Lot: 1 **Job Type: A3 - ALTERATION TYPE 3**

Printable (PDF) version of this Permit

DOB NOW: *Inspections*

Job No:	421195361			**Fee:**	STANDARD
Permit No:	421195361-01-EQ-OT	**Issued:**	04/21/2016	**Expires:**	04/21/2017
Seq. No.:	01	**Filing Date:**	04/21/2016 INITIAL	**Status:**	ISSUED
Work:		**Proposed Job Start:**	04/21/2016	**Work Approved:**	04/21/2016

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - OTHER
USING BACKER SCAFFOLDING AND SCISSOR LIFT AS PER PLAN ,NO CHANGE IN EGRESS, IN USE OR OCCUPANCY.

Use: R-2 - RESIDENTIAL: APARTMENT HOUSES **Landmark:** NO **Stories:** 47

Review is requested under Building Code: 2014

Issued to: HOWARD ECKER

GENERAL CONTRACTOR - NON-REGISTERED: GC 012784

Business: ECKER WINDOW CORP
ONE ODELL PLAZA YONKERS NY 10701

Phone: 914-776-0000

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Work Permit Data

Premises: 42-19 23 STREET QUEENS **Filed At: 23-01 42 ROAD QUEENS**

BIN: 4005065 Block: 425 Lot: 1 **Job Type: A3 - ALTERATION TYPE 3**

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DOB NOW: *Inspections*

Job No:	421302904			**Fee:**	STANDARD
Permit No:	421302904-01-EQ-SH	**Issued:**	06/23/2016	**Expires:**	06/23/2017
Seq. No.:	01	**Filing Date:**	06/23/2016 INITIAL	**Status:**	ISSUED
Work:		**Proposed Job Start:**	06/23/2016	**Work Approved:**	06/23/2016

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - SIDEWALK-SHED
INSTALLATION OF 56 LINEAR FEET OF HEAVY DUTY SIDEWALK SHED DURING NEW BUILDING CONSTRUCTION, FILED SEPARATELY. SIDEWALK SHED SHALL COMPLY WITH CHAPTER #33 OF THE NYC BUILDING CODE. NO CHANGE IN USE, OCCUPANCY OR EGRESS UNDER THIS APPLICATION.

Electrical Application Number for Shed Lighting: A350452

Use: R-2 - RESIDENTIAL: APARTMENT HOUSES **Landmark:** NO **Stories:** 44

Review is requested under Building Code: 2014

Issued to: COLM COEN

GENERAL CONTRACTOR - NON-REGISTERED: GC 037441

Business: S&E BRIDGE & SCAFFOLD LLC
700 COMMERCIAL AVE GROUND FL CARLSTADT NJ 07072 **Phone:** 201-933-3418

Filing Represntative: BEN/MICH/VYA/SA ITA/BOOD/LAN/RAM/MON

Business: A1 EXPEDITING SERVICE CORP **Phone:** 718-366-1820
959 FULTON STREET FARMINGDALE NY 11735

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Work Permit Data

Premises: 42-19 23 STREET QUEENS **Filed At: 23-01 42ND ROAD QUEENS**

BIN: 4005065 Block: 425 Lot: 1 **Job Type: A3 - ALTERATION TYPE 3**

NO WORK PERMIT

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DOB NOW: *Inspections*

Job No:	421321947			**Fee:**	STANDARD
Permit No:	421321947-01-AL	**Issued:**	11/29/2016	**Expires:**	11/29/2017
Seq. No.:	01	**Filing Date:**	11/29/2016 INITIAL	**Status:**	ISSUED
Work:		**Proposed Job Start:**	11/29/2016	**Work Approved:**	09/06/2016

ALTERATION TYPE 3 - TPP-NO WORK
FILLING TENANT PROTECTION PLAN FOR THE SCOPE OF WORK WHICH IS FILED UNDER APPLICATION 420649187 . NO WORK SHALL BE PERFORMED UNDER THIS APPLICATION. NO CHANGE IN USE OR EGRESS UNDER THIS APPLICATION.

Use: R-2 - RESIDENTIAL: APARTMENT HOUSES **Landmark:** NO **Stories:** 44

Review is requested under Building Code: 2008

Issued to: NED WHITE
5 EAST 17TH STREET NEW YORK NY 10013

NO WORK (ADMIN)
Phone: 212-610-2827

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Work Permit Data

Premises: 42-19 23 STREET QUEENS **Filed At: 42-19 23RD STREET QUEENS**

BIN: 4005065 Block: 425 Lot: 1 **Job Type: A2 - ALTERATION TYPE 2**

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DOB NOW: *Inspections*

Job No:	421355367			**Fee:**	STANDARD
Permit No:	421355367-01-PL	**Issued:**	09/19/2016	**Expires:**	09/19/2017
Seq. No.:	02	**Filing Date:**	09/19/2016 RENEWAL	**Status:**	ISSUED
Work:		**Proposed Job Start:**	08/19/2016	**Work Approved:**	08/04/2016

PLUMBING - ALTERATION TYPE 2

PLUMBING WORK FILED IN CONJUNCTION WITH NB# 420649187

Use: R-2 - RESIDENTIAL: APARTMENT HOUSES **Landmark:** NO **Stories:** 44

Site Fill: NOT APPLICABLE

Review is requested under Building Code: 2014

Issued to: PANAGIOTIS KARDASAKIS **MASTER PLUMBER**

Business: HYDROKINETIC PLBG & HTG I **License No:** MP 002267

11-12 MAIN AVENUE ASTORIA NY 11102 **Phone:** 718-777-7795

Applicant Can No Longer Self-Certify

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Work Permit Data

Premises: 42-19 23 STREET QUEENS **Filed At: 23-01 42ND ROAD QUEENS**

BIN: 4005065 Block: 425 Lot: 1 **Job Type: A3 - ALTERATION TYPE 3**

NO WORK PERMIT

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DOB NOW: *Inspections*

Job No:	440318657			**Fee:**	STANDARD
Permit No:	440318657-01-AL	**Issued:**	11/16/2016	**Expires:**	11/16/2017
Seq. No.:	01	**Filing Date:**	11/16/2016 INITIAL	**Status:**	ISSUED
Work:		**Proposed Job Start:**	11/16/2016	**Work Approved:**	11/15/2016

ALTERATION TYPE 3 - FPP

APPLICATION FILED FOR FIRE PROTECTION PLAN IN ASSOCIATION WITH NB 4206489187.

Use: R-2 - RESIDENTIAL: APARTMENT HOUSES **Landmark:** NO **Stories:** 39

Review is requested under Building Code: 2008

Issued to: NED WHITE
5 EAST 17TH STREET NEW YORK NY 10013

NO WORK (ADMIN)
Phone: 212-610-2827

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Work Permit Data

Premises: 42-19 23 STREET QUEENS **Filed At: 23-01 42ND ROAD QUEENS**

BIN: 4005065 Block: 425 Lot: 1 **Job Type: A2 - ALTERATION TYPE 2**

Printable (PDF) version of this Permit

DOB NOW: *Inspections*

Job No:	440349384			**Fee:**	STANDARD
Permit No:	440349384-01-EW-BL	**Issued:**	11/03/2016	**Expires:**	07/22/2017
Seq. No.:	01	**Filing Date:**	11/03/2016 INITIAL	**Status:**	ISSUED
Work:		**Proposed Job Start:**	11/03/2016	**Work Approved:**	10/19/2016

ALTERATION TYPE 2 - BOILER

INSTALLATION OF GAS BOILER FOR NEW BUILDING 420649187.

Use: R-2 - RESIDENTIAL: APARTMENT HOUSES **Landmark:** NO **Stories:** 44

Site Fill: NOT APPLICABLE

Review is requested under Building Code: 2008

Issued to: ROBERT J KILBANE **MASTER PLUMBER**

Business: ARMON MECHANICAL INC **License No:** MP 001610

58-76 57TH DRIVE MASPETH NY 11378 **Phone:** 347-547-8895

Filing Represntative: GANESH/IAN PARAY/SAHADEO

Business: MPEX, CO. **Phone:** 718-576-1188

82-12 91 AVENUE WOODHAVEN NY 11421

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