DAILY FIELD REPORT 082

Prepared By: LANGAN

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Sunny	x
TEMP.	< 32		32-50		50-70	x	70-85		>85	

BCP Project No:	C224304	**Date:**	November 1, 2021
Project Name:	45 Commercial Street	**Time:**	6:45 am to 3:45 pm

Consultant: Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan)

Construction Manager: Monadnock Construction Inc. (MC)
Foundation Contractor: StructureTech New York, Inc. (STNY)
Soil Broker: Clean Earth, Inc. (CE)

Langan Field Personnel:
Yaskira Mota

Work Activities Performed:

- STNY excavated the following areas of the site. Excavated material consisted of non-native soil, did not exhibit signs of chemical- or petroleum-like contamination, and was stockpiled in waste characterization grid COMP J South.
    - An about 20-foot-long by 7-foot-wide area to 4 feet bgs (from original site grade) in waste characterization grid COMP J South for the installation of plumbing utility piping.
    - An about 50-foot-long by 6-foot-wide area to a maximum depth of 5 feet bgs (from original site grade) in waste characterization grids COMP J South, COMP G and COMP B for the installation of plumbing utility piping.
- STNY regraded/flattened an 30-foot-long by 25-foot-wide area to prepare the surface for sub-membrane depressurization (SMD) system installation in waste characterization grid COMP A. Excess material consisted of non-native soil, did not exhibit signs of chemical- or petroleum-like contamination and was stockpiled in waste characterization grids COMP A and COMP J South.
- STNY loaded trucks with a soil stockpile[1] in waste characterization grid COMP J South for off-site disposal to the Clean Earth of Carteret (CEC) facility located in Carteret, New Jersey.
- STNY installed SMD system components in accordance with the design documents.
    - Non-woven, geotextile fabric (Mirafi 140N) was placed over an about 35-foot-long by 25-foot-wide area in waste characterization grids COMP B and COMP A, an about 30-foot-long by 15-foot-wide area in waste characterization grid COMP A, and about 25-foot-long by 20-foot-wide area in waste characterization grid COMP A, to isolate the SMD system from subgrade fines.
    - A minimum 8-inch-thick layer of 0.75-inch virgin stone was placed in the above-referenced areas above the geotextile fabric for the gas permeable aggregate layer.
    - About 135 feet of 4-inch diameter perforated polyvinyl chloride (PVC) piping, wrapped with a polyester filter sleeve, was placed in waste characterization grids COMP B and COMP A within the gas permeable aggregate layer for the SMD system.

[1] MEP Trench COMP-2

Material Tracking:

- The following soil/fill was exported from the site:
  - Two loads of non-native soil was transported to the CEC facility located in Carteret, NJ.
- The following materials were imported to the site:
  - Three loads of 0.75-inch virgin stone from Tilcon – Mt. Hope Quarry located in Wharton Borough, NJ.

Samples Collected:

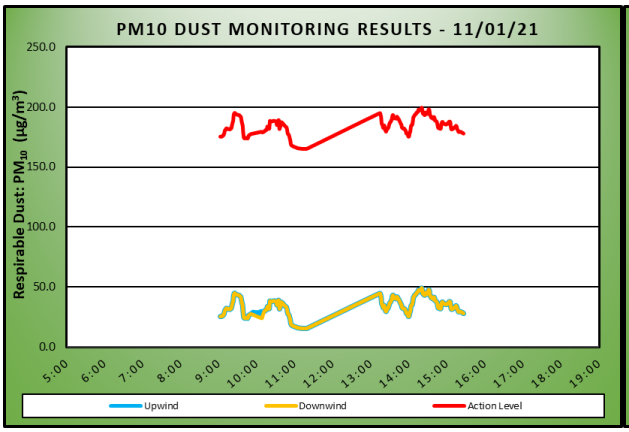
- No samples were collected.

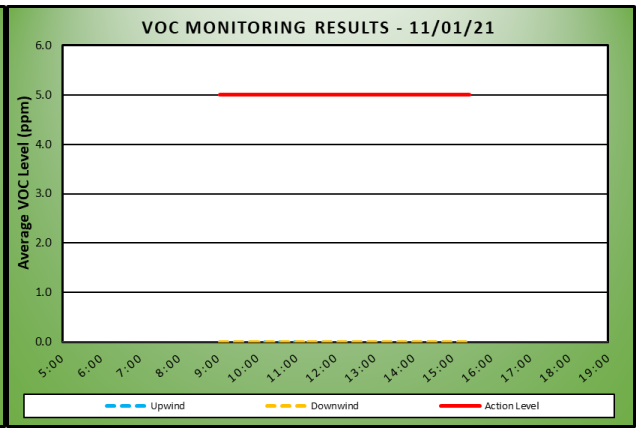
Air Monitoring

Particulate Monitoring (µg/m³)			Organic Vapor Monitoring (ppm)		
Daily background	25.5		Daily background	0.0	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	32.8	32.6	Daily Time Weighted Average	0.0	0.0
Maximum 15-min Average	49.4	49.4	Maximum 15-min Average	0.0	0.0
Minimum 1-min Instant Reading	14.5	4.8	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	133.5	49.4	Maximum 1-min Instant Reading	0.0	0.0

µg/m³-micrograms per cubic meter. ppm= parts per million.

Monitoring was not conducted between 11:20 and 12:58 due to connectivity issues. The issue was resolved and data was collected for the remainder of the day. No particulate or organic vapor exceedances at the downwind station were encountered. The daily Community Air Monitoring Program (CAMP) monitoring results are also presented in the following charts:





Planned Activities:

- STNY will continue mass excavating for the remedy and utilities and will continue exporting soil for off-site disposal.
- STNY will continue installing SMD system components and the vapor barrier.
- STNY will continue pouring concrete for the foundation slab.

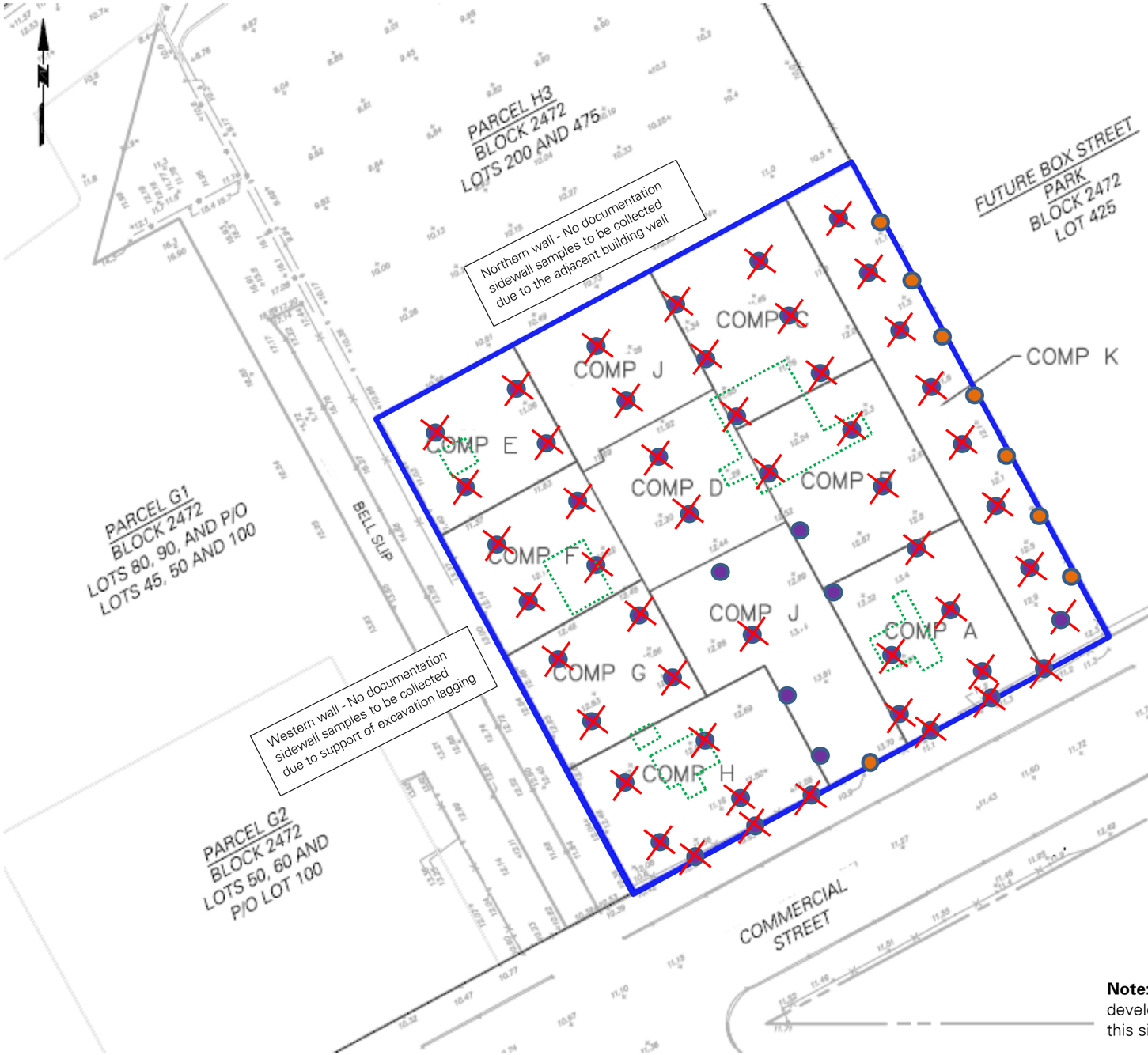
SITE PLAN

Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

- **Site Boundary**
- **Waste Characterization Grid COMP I (5-10)**
- **Upwind CAMP station**
- **Downwind CAMP station**
- **Stockpile – Soil**
- **Stockpile – C&D (Concrete)**
- **Stockpile – Imported Material**
- **Approximate Location of Excavation**
- **Approximate Area of Backfilling**
- **Approximate Area of Regrading**
- **Approximate Area of Asphalt/Concrete Removal**
- **Approximate Location of Concrete Pouring**
- **Approximate Area of Installed Demarcation Layer**
- **Approximate Location of Hotspot Endpoint Sample**

File Name: 2021-11-01 Daily Field Report_082

DOCUMENTATION SAMPLE PLAN



Site Boundary

Waste Characterization Grid COMP I (5-10)

Proposed Base Documentation Sample Location

Proposed Base Documentation Sample Location

Documentation Sample Collected Today

Previously Collected Documentation Sample

Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

WATERPROOFING/VAPOR BARRIER AND SMD INSTALLATION MAP

Note: Base Map Source: Drawing FO-100.00, Foundation (1st Floor) Plan, Dated December 20, 2019, Prepared by WSP USA.

- **Site Boundary**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower A**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower B**
- **SMD System Installation In Progress (Geotextile/Aggregate)**
- **SMD System Installation In Progress (SMD Piping)**
- **SMD System Installation In Progress (Waterproofing/Vapor Barrier)**
- **Concrete Foundation Slab Poured**

Photo Log

Photo 1: View of STNY loading a truck with soil for off-site disposal to the CEC facility (facing north).	
Photo 2: View of STNY excavating for utility piping in waste characterization grid COMP J South (facing west).	

Photo 3: View of STNY placing geotextile fabric (Mirafi 140N) for the SMD system in waste characterization grid COMP B (facing south)	
Photo 4: View of STNY placing the permeable aggregate layer for the SMD system in waste characterization grid COMP A (facing north)	

DAILY FIELD REPORT 083

Prepared By: LANGAN

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Sunny	x
TEMP.	< 32		32-50		50-70	x	70-85		>85	

BCP Project No:	C224304	**Date:**	November 2, 2021
Project Name:	45 Commercial Street	**Time:**	6:45 am to 3:45 pm

Consultant: Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan)

Construction Manager: Monadnock Construction Inc. (MC)
Foundation Contractor: StructureTech New York, Inc. (STNY)
Soil Broker: Clean Earth, Inc. (CE)

Langan Field Personnel:
Yaskira Mota

Work Activities Performed:

- STNY excavated the following areas of the site. Excavated material consisted of non-native soil, did not exhibit signs of chemical- or petroleum-like contamination.
    - An about 25-foot-long by 12-foot-wide area to a maximum depth of 8 feet bgs (from original site grade) in waste characterization grids COMP G (0-5), COMP H (0-5) and COMP I (5-10) for the installation of a sewage ejector pit. Excavated material was stockpiled in waste characterization grid COMP J South (Soil Stockpile 1).
    - An about 14-foot-long by 8-foot-wide area to a maximum depth of 4 feet bgs (from original site grade) in waste characterization grid COMP B (0-5) for the installation of electric utility piping. Excavated material was added to Soil Stockpile 1.
- STNY backfilled the following areas of the site with New York State Department of Environmental Conservation (NYSDEC)-approved 0.75-inch virgin stone from Tilcon - Mt. Hope Quarry to fill in previous excavations.
    - An about 40-foot-long by 6-foot-wide area in waste characterization grid COMP J South, from a maximum depth of 5 feet below grade surface (bgs) (from original site grade) to about 2 feet bgs.
    - An about 25-foot-long by 6-foot-wide area in waste characterization grid COMP J South, from a maximum depth of 5 feet bgs (from original site grade) to 2 feet bgs.
- STNY loaded a truck with two soil stockpiles[1] in waste characterization grid COMP J South for off-site disposal to the Clean Earth of Carteret (CEC) facility located in Carteret, New Jersey.
- STNY relocated a soil stockpile[2] from waste characterization grid COMP A and a soil stockpile[3] from waste characterization grid COMP A and added them to Soil Stockpile 1 in waste characterization grid COMP J South.
- STNY installed sub-membrane depressurization (SMD) system components in accordance with the design documents.
    - Non-woven, geotextile fabric (Mirafi 140N) was placed over an about 60-foot-long by 20-foot-wide area and an about 60-foot-long by 25-foot-wide area in waste characterization grid COMP A, to isolate the SMD system from subgrade fines.
    - A minimum 8-inch-thick layer of 0.75-inch virgin stone was placed in the above-referenced areas above the geotextile fabric for the gas permeable aggregate layer.

[1] MEP Trench COMP-2
[2] COMP B (0-5)
[3] COMP A (0-5)

  - About 110 feet of 4-inch diameter perforated polyvinyl chloride (PVC) piping, wrapped with a polyester filter sleeve, was placed in waste characterization grid COMP A within the gas permeable aggregate layer for the SMD system.

- STNY installed vapor barrier membrane (Stego® Wrap 20 Mil) in an about 60-foot-long by about 30-foot-wide area in waste characterization grid COMP A above the gas permeable aggregate layer. Vapor barrier seams were set with at least 6-inches of overlap and sealed with Stego® Tape. Vapor barrier installation documentation is to verify general conformance with specifications and contract documents. Any rips, tears, or holes observed during the installation were sealed with Stego® Tape.

Material Tracking:

- The following soil/fill was exported from the site:
  - One load of non-native soil was transported to the CEC facility located in Carteret, NJ.
- The following materials were imported to the site:
  - Seven loads of 0.75-inch virgin stone from Tilcon – Mt. Hope Quarry located in Wharton Borough, NJ.

Samples Collected:

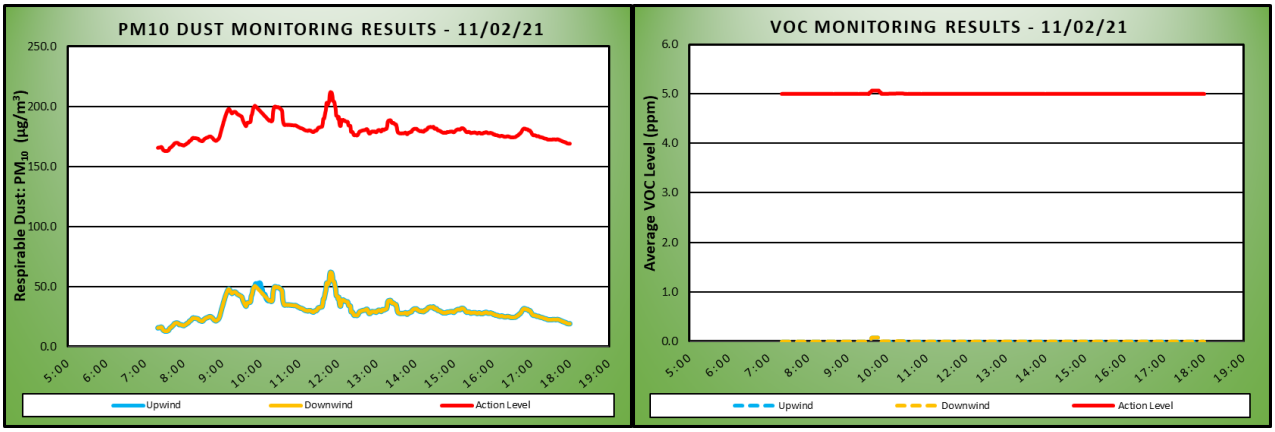
- No samples were collected.

Air Monitoring

Particulate Monitoring (µg/m³)			Organic Vapor Monitoring (ppm)		
Daily background	15.6		Daily background	0.0	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	28.9	28.7	Daily Time Weighted Average	0.0	0.0
Maximum 15-min Average	62.3	62.3	Maximum 15-min Average	0.1	0.1
Minimum 1-min Instant Reading	9.0	9.0	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	138.5	138.5	Maximum 1-min Instant Reading	0.5	0.5

µg/m³-micrograms per cubic meter. ppm= parts per million.

No particulate or organic vapor exceedances at the downwind station were encountered. The daily Community Air Monitoring Program (CAMP) monitoring results are also presented in the following charts:



Planned Activities:

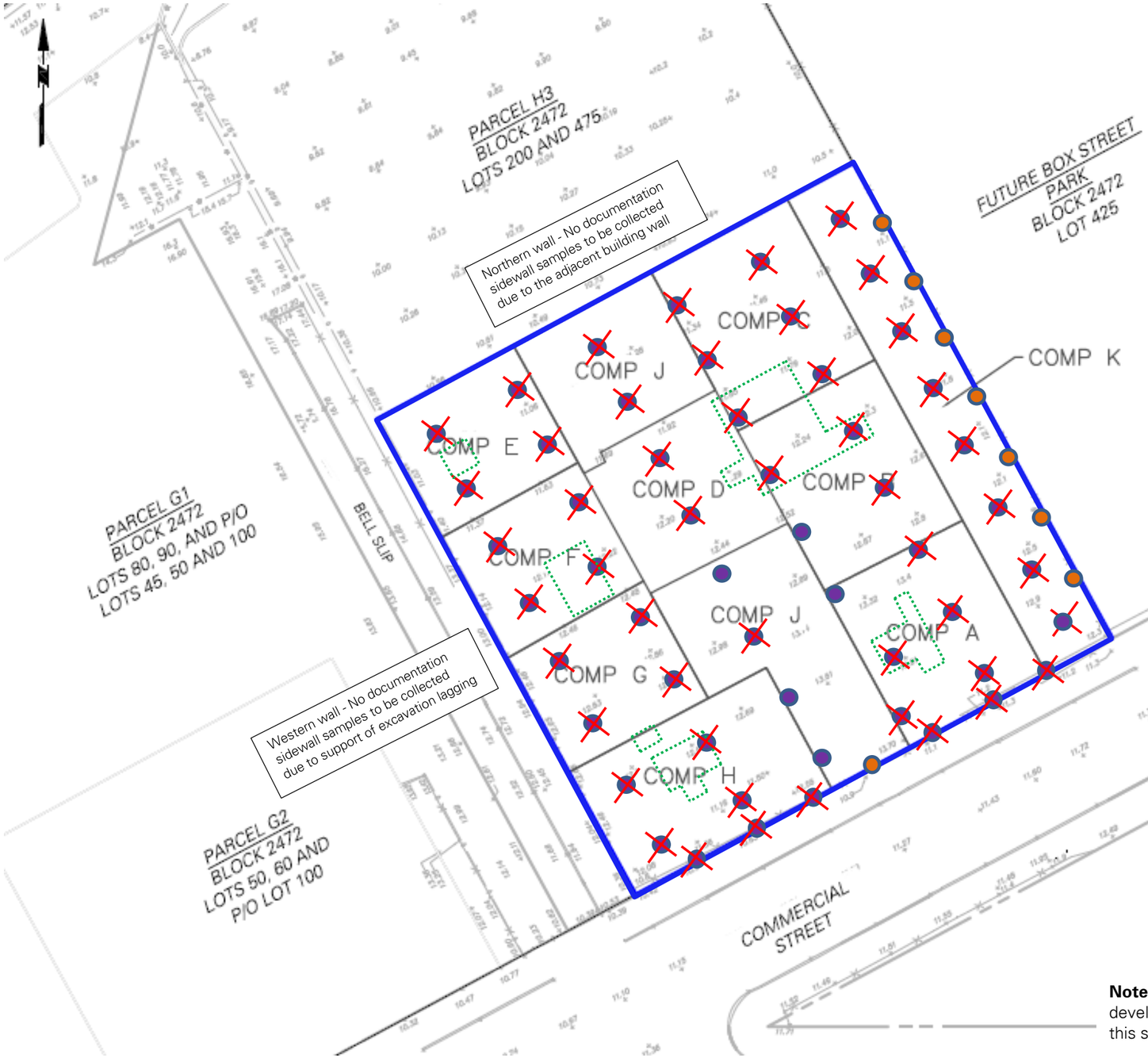
- STNY will continue mass excavating for the remedy and utilities and will continue exporting soil for off-site disposal.
- STNY will continue installing SMD system components and the vapor barrier.
- STNY will continue pouring concrete for the foundation slab.

SITE PLAN

Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

- **Site Boundary**
- **Waste Characterization Grid COMP I (5-10)**
- **Upwind CAMP station**
- **Downwind CAMP station**
- **Stockpile – Soil**
- **Stockpile – C&D (Concrete)**
- **Stockpile – Imported Material**
- **Approximate Location of Excavation**
- **Approximate Area of Backfilling**
- **Approximate Area of Regrading**
- **Approximate Area of Asphalt/Concrete Removal**
- **Approximate Location of Concrete Pouring**
- **Approximate Area of Installed Demarcation Layer**
- **Approximate Location of Hotspot Endpoint Sample**

DOCUMENTATION SAMPLE PLAN



Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

- **Site Boundary**
- **Waste Characterization Grid COMP I (5-10)**
- **Proposed Base Documentation Sample Location**
- **Proposed Base Documentation Sample Location**
- **Documentation Sample Collected Today**
- **Previously Collected Documentation Sample**

WATERPROOFING/VAPOR BARRIER AND SMD INSTALLATION MAP

Note: Base Map Source: Drawing FO-100.00, Foundation (1st Floor) Plan, Dated December 20, 2019, Prepared by WSP USA.

- **Site Boundary**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower A**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower B**
- **SMD System Installation In Progress (Geotextile/Aggregate)**
- **SMD System Installation In Progress (SMD Piping)**
- **SMD System Installation In Progress (Waterproofing/Vapor Barrier)**
- **Concrete Foundation Slab Poured**

Photo Log

Photo 1: View of STNY loading a truck with soil for off-site disposal to the CEC facility (facing north).	
Photo 2: View of STNY excavating for a sewage ejector pit in waste characterization grid COMP H (facing northeast).	

File Name: 2021-11-02 Daily Field Report_083

Photo 3: View of STNY placing geotextile fabric (Mirafi 140N) for the SMD system in waste characterization grid COMP A (facing north).	
Photo 4: View of STNY placing vapor barrier in waste characterization grid COMP A (facing north)	

File Name: 2021-11-02 Daily Field Report_083

DAILY FIELD REPORT 084

Prepared By: LANGAN

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Sunny	x
TEMP.	< 32		32-50		50-70	x	70-85		>85	

BCP Project No:	C224304	**Date:**	November 3, 2021
Project Name:	45 Commercial Street	**Time:**	6:45 am to 3:45 pm

Consultant: Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan)

Construction Manager: Monadnock Construction Inc. (MC)
Foundation Contractor: StructureTech New York, Inc. (STNY)
Soil Broker: Clean Earth, Inc. (CE)

Langan Field Personnel:
Yaskira Mota

Work Activities Performed:

- STNY excavated the following areas of the site. Excavated material consisted of non-native soil, did not exhibit signs of chemical- or petroleum-like contamination.
    - An about 45-foot-long by 7-foot-wide area to a maximum depth of 4 feet below grade surface (bgs) (from original site grade) in waste characterization grids COMP A (0-5) and COMP B (0-5) for pile cap and grade beam formwork installation. Excavated material was added to Soil Stockpile 1 located in waste characterization grid COMP J South.
- STNY backfilled the following areas of the site with New York State Department of Environmental Conservation (NYSDEC)-approved 0.75-inch virgin stone from Tilcon - Mt. Hope Quarry to fill in previous excavations.
    - An about 50-foot-long by 10-foot-wide area in waste characterization grid COMP B, from a maximum depth of 5 feet bgs (from original site grade) to about 2 feet bgs.
    - An about 15-foot-long by 7-foot-wide area in waste characterization grid COMP J South, from a maximum depth of 5 feet bgs (from original site grade) to about 1 feet bgs.
    - An about 24-foot-long by 12-foot-wide area in waste characterization grids COMP A and COMP B, from a maximum depth of 5 feet bgs (from original site grade) to about 2 feet bgs.
- STNY loaded trucks with a portion of Soil Stockpile 1 in waste characterization grid COMP J South for off-site disposal to the Clean Earth of Bethlehem (CEPA) facility located in Bethlehem, Pennsylvania.
- STNY installed SMD system components in accordance with the design documents.
    - Non-woven, geotextile fabric (Mirafi 140N) was placed over an about 52-foot-long by 10-foot-wide area in waste characterization grid COMP B, and an about 24-foot-long by 12-foot-wide area in waste characterization grids COMP A and COMP B, to isolate the SMD system from subgrade fines.
    - A minimum 8-inch-thick layer of 0.75-inch virgin stone was placed in the above-referenced areas above the geotextile fabric for the gas permeable aggregate layer.
    - About 55 feet of 4-inch diameter perforated polyvinyl chloride (PVC) piping, wrapped with a polyester filter sleeve, was placed in waste characterization grids COMP A and COMP B within the gas permeable aggregate layer for the SMD system.
- STNY installed vapor barrier membrane (Stego® Wrap 20 Mil) in an about 58-foot-long by about 31-foot-wide area in waste characterization grid COMP A above the gas permeable aggregate layer. Vapor barrier seams were set with at least 6-inches of overlap and sealed with Stego® Tape. Vapor barrier installation documentation is to verify general conformance with specifications and contract documents. Any rips, tears, or holes observed during the installation were sealed with Stego® Tape.

- STNY installed Grace Preprufe® 300R Plus waterproofing/vapor barrier membrane, Preprufe® CJ Tape, Preprufe® Detail Tape, and Bituthene Mastic at the sewage ejector pit area in waste characterization grid COMP G. Waterproofing oversight is to verify general conformance with specifications and contract documents. Certification that the waterproofing meets the requirements of any warranty shall be in accordance with inspection performed by representatives of Grace, and does not relieve the Contractor from performing all work in accordance with the project specifications, Grace's standard details and their inspection recommendations.

Material Tracking:

- The following soil/fill was exported from the site:
    - Two loads of non-native soil was transported to the CEPA facility located in Bethlehem, PA.
- The following materials were imported to the site:
    - Three loads of 0.75-inch virgin stone from Tilcon – Mt. Hope Quarry located in Wharton Borough, NJ.

Samples Collected:

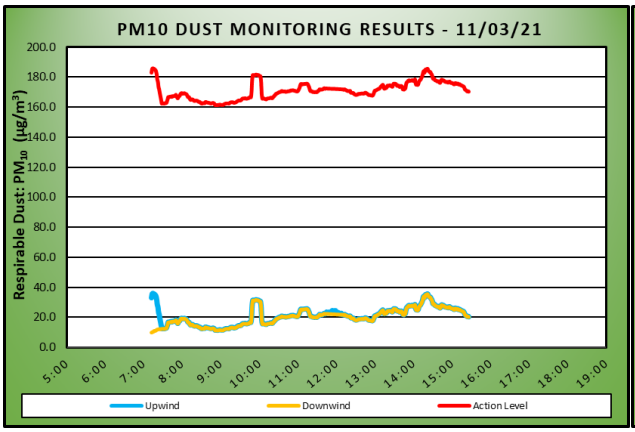
- Langan collected three documentation samples from 2 feet bgs in waste characterization grids COMP J South, COMP B and COMP A. The documentation soil samples was submitted to Alpha Analytical Laboratories, Inc. for analysis of Part 375 volatile organic compounds (VOC), Part 375 semivolatile organic compunds (SVOC) including 1,4-dioxane, polychlorinated biphenyls (PCB), pesticides/herbicides, target analyte list (TAL) metals including hexavalent and trivalent chromium, and per- and polyfluoroalkyl substances (PFAS).
    - EP27_2
    - EP28_2
    - EP34_2

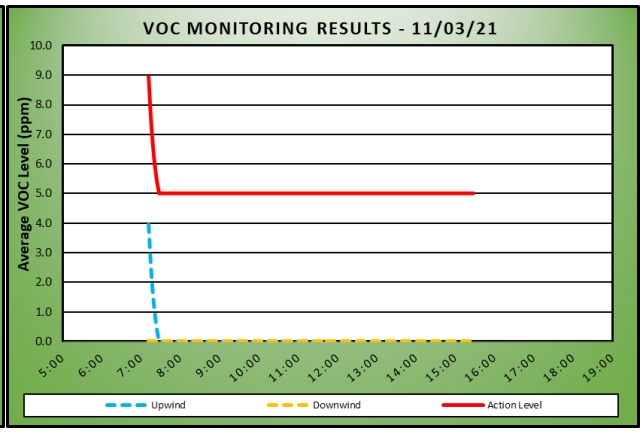
Air Monitoring

Particulate Monitoring (µg/m³)			Organic Vapor Monitoring (ppm)		
Daily background	33.0		Daily background	3.9	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	21.0	20.1	Daily Time Weighted Average	0.3	0.0
Maximum 15-min Average	36.0	35.6	Maximum 15-min Average	3.9	0.0
Minimum 1-min Instant Reading	8.0	6.5	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	138.5	138.5	Maximum 1-min Instant Reading	8.0	0.0

µg/m³-micrograms per cubic meter. ppm= parts per million.

No particulate or organic vapor exceedances at the downwind station were encountered. The daily Community Air Monitoring Program (CAMP) monitoring results are also presented in the following charts:





Planned Activities:

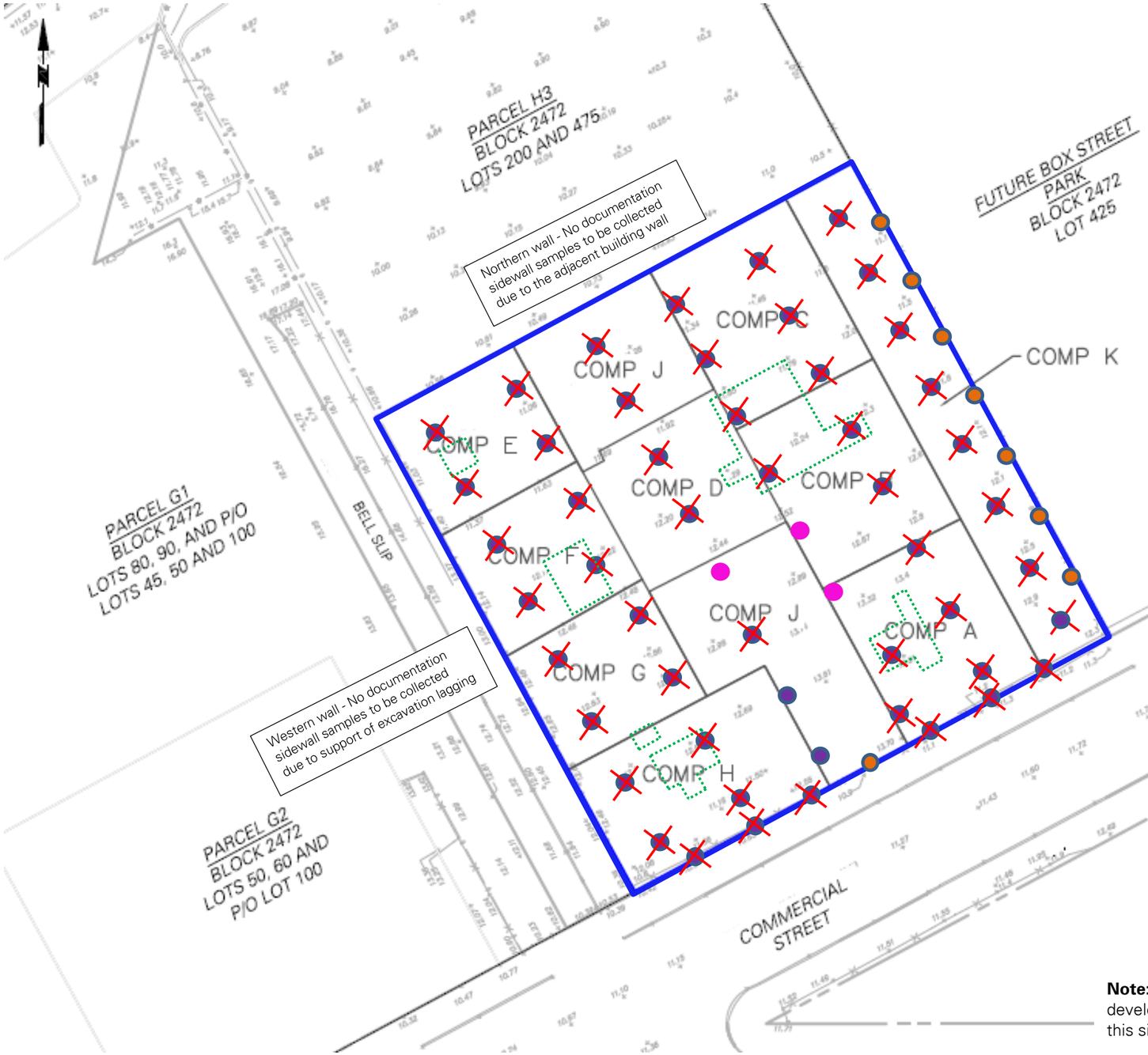
- STNY will continue mass excavating for the remedy and utilities and will continue exporting soil for off-site disposal.
- STNY will continue installing SMD system components and the vapor barrier.
- STNY will continue pouring concrete for the foundation slab.

SITE PLAN

Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

- **Site Boundary**
- **Waste Characterization Grid COMP I (5-10)**
- **Upwind CAMP station**
- **Downwind CAMP station**
- **Stockpile – Soil**
- **Stockpile – C&D (Concrete)**
- **Stockpile – Imported Material**
- **Approximate Location of Excavation**
- **Approximate Area of Backfilling**
- **Approximate Area of Regrading**
- **Approximate Area of Asphalt/Concrete Removal**
- **Approximate Location of Concrete Pouring**
- **Approximate Area of Installed Demarcation Layer**
- **Approximate Location of Hotspot Endpoint Sample**

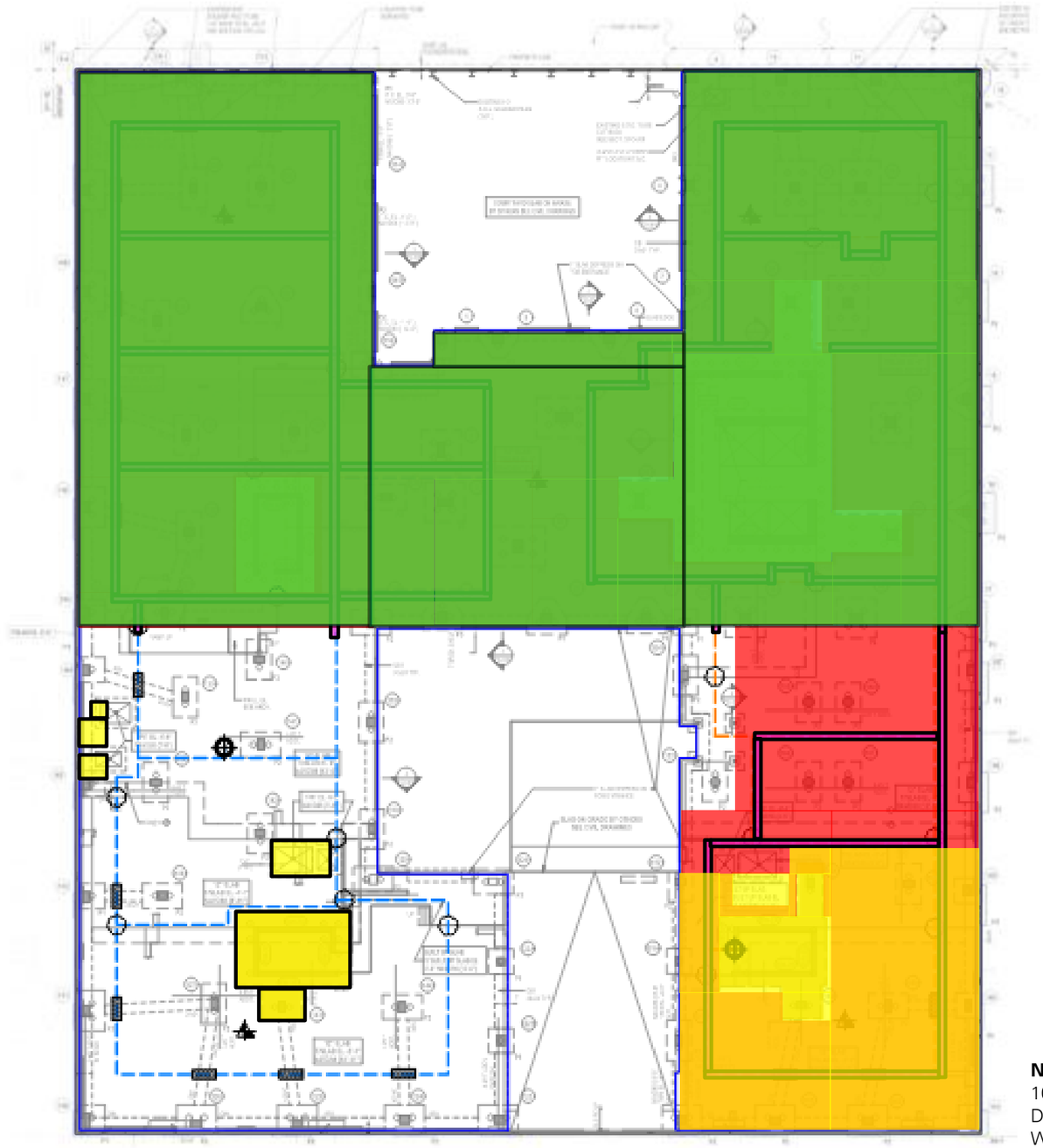
DOCUMENTATION SAMPLE PLAN



Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

- **Site Boundary**
- **Waste Characterization Grid COMP I (5-10)**
- **Proposed Base Documentation Sample Location**
- **Proposed Base Documentation Sample Location**
- **Documentation Sample Collected Today**
- **Previously Collected Documentation Sample**

WATERPROOFING/VAPOR BARRIER AND SMD INSTALLATION MAP



Note: Base Map Source: Drawing FO-100.00, Foundation (1st Floor) Plan, Dated December 20, 2019, Prepared by WSP USA.

- **Site Boundary**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower A**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower B**
- **SMD System Installation In Progress (Geotextile/Aggregate)**
- **SMD System Installation In Progress (SMD Piping)**
- **SMD System Installation In Progress (Waterproofing/Vapor Barrier)**
- **Concrete Foundation Slab Poured**

Photo Log

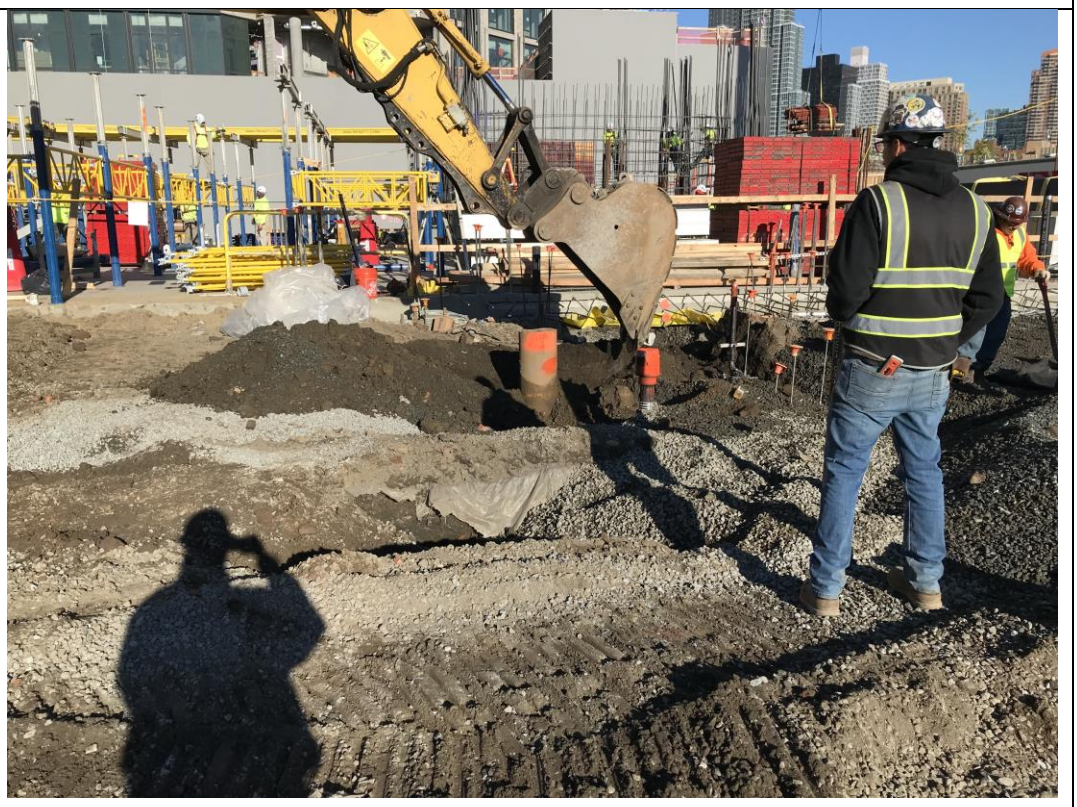
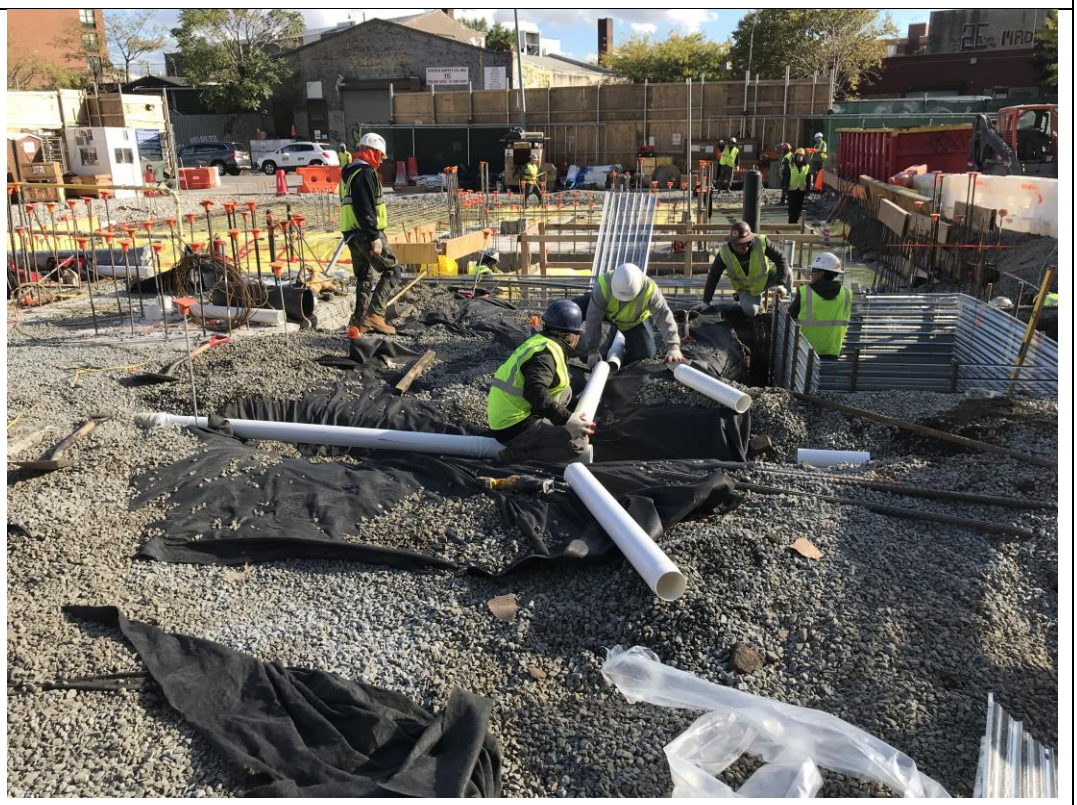
Photo 1: View of STNY loading a truck with soil for off-site disposal to the CEPA facility (facing north).	
Photo 2: View of STNY excavating for pile cap and grade beam formwork installation in waste characterization grid COMP B (facing north).	

Photo 3: View of installed vapor barrier in waste characterization grid COMP A (facing northwest).	
Photo 4: View of STNY installing perforated polyvinyl chloride (PVC) piping for the SMD system in waste characterization grid COMP A (facing south).	

File Name: 2021-11-03 Daily Field Report_084

DAILY FIELD REPORT 085

Prepared By: LANGAN

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Sunny	x
TEMP.	< 32		32-50	x	50-70	x	70-85		>85	

BCP Project No:	C224304	**Date:**	November 4, 2021
Project Name:	45 Commercial Street	**Time:**	6:45 am to 4:30 pm

Consultant: Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan)

Construction Manager: Monadnock Construction Inc. (MC)
Foundation Contractor: StructureTech New York, Inc. (STNY)
Soil Broker: Clean Earth, Inc. (CE)

Langan Field Personnel:
Yaskira Mota

Work Activities Performed:

- STNY backfilled the following areas of the site with New York State Department of Environmental Conservation (NYSDEC)-approved 0.75-inch virgin stone from Tilcon - Mt. Hope Quarry to fill in previous excavations.
    - An about 25-foot-long by 2-foot-wide area around pile cap/grade beam formwork in waste characterization grid COMP B from about 4 feet below grade surface (bgs) (from original site grade) to about 2 feet bgs.
    - An about 20-foot-long by 2-foot-wide area around pile cap/grade beam formwork in waste characterization grid COMP B from about 4 feet bgs (from original site grade) to about 2 feet bgs.
    - An about 26-foot-long by 2-foot-wide area around pile cap formwork in waste characterization grids COMP A and COMP B from a maximum depth of 5 feet bgs (from original site grade) to about 2 feet bgs.
- STNY installed sub-membrane depressurization (SMD) system components in accordance with the design documents.
    - Non-woven geotextile fabric (Mirafi 140N) was placed over an about 35-foot-long by 15-foot-wide area in waste characterization grids COMP B and COMP A, and an about 24-foot-long by 12-foot-wide area in waste characterization grids COMP A and COMP B, to isolate the SMD system from subgrade fines.
    - A minimum 8-inch-thick layer of 0.75-inch virgin stone was placed in the above-referenced areas above the geotextile fabric for the gas permeable aggregate layer.
    - About 50 feet of 4-inch diameter perforated polyvinyl chloride (PVC) piping, wrapped with a polyester filter sleeve, was placed in waste characterization grids COMP A and COMP B within the gas permeable aggregate layer for the SMD system.
- STNY installed vapor barrier membrane (Stego® Wrap 20 Mil) in an about 40-foot-long by about 35-foot-wide area in waste characterization grids COMP A and COMP B above the gas permeable aggregate layer. Vapor barrier seams were set with at least 6-inches of overlap and sealed with Stego® Tape. Vapor barrier installation documentation is to verify general conformance with specifications and contract documents. Any rips, tears, or holes observed during the installation were sealed with Stego® Tape.

Material Tracking:

- No soil/fill was exported from the site.
- No material was imported to the site.

Samples Collected:

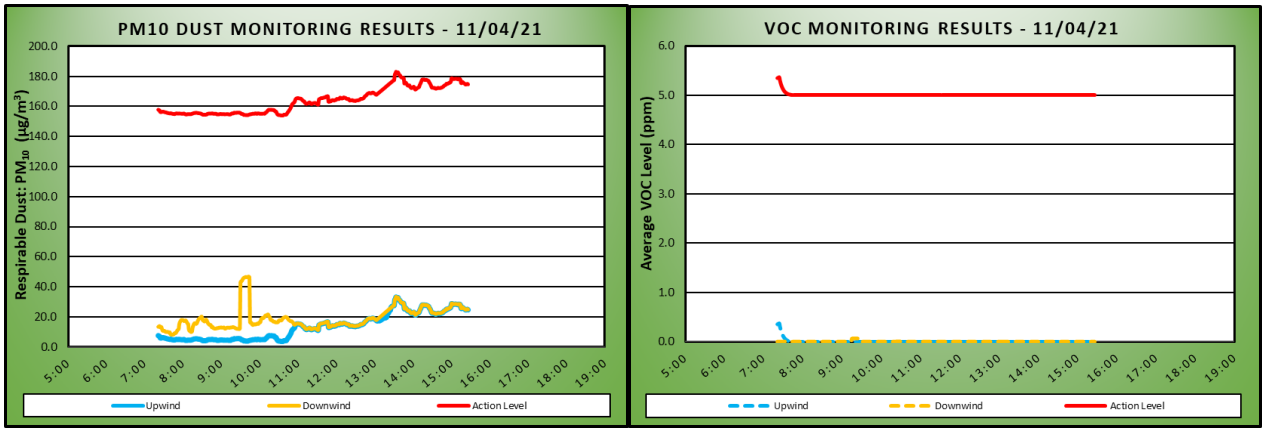
- No samples were collected.

Air Monitoring

Particulate Monitoring (µg/m³)			Organic Vapor Monitoring (ppm)		
Daily background	7.7		Daily background	0.4	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	13.7	18.7	Daily Time Weighted Average	0.0	0.0
Maximum 15-min Average	33.3	46.8	Maximum 15-min Average	0.4	0.1
Minimum 1-min Instant Reading	2.5	3.8	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	72.3	476.5	Maximum 1-min Instant Reading	1.0	1.0

µg/m³-micrograms per cubic meter. ppm= parts per million.

Data was not collected at the downwind station from 13:04 to 13:14 due to a temporary connectivity issue. The issue was resolved and data was collected for the remainder of the day. No particulate or organic vapor exceedances at the downwind station were encountered. The daily Community Air Monitoring Program (CAMP) monitoring results are also presented in the following charts:



Planned Activities:

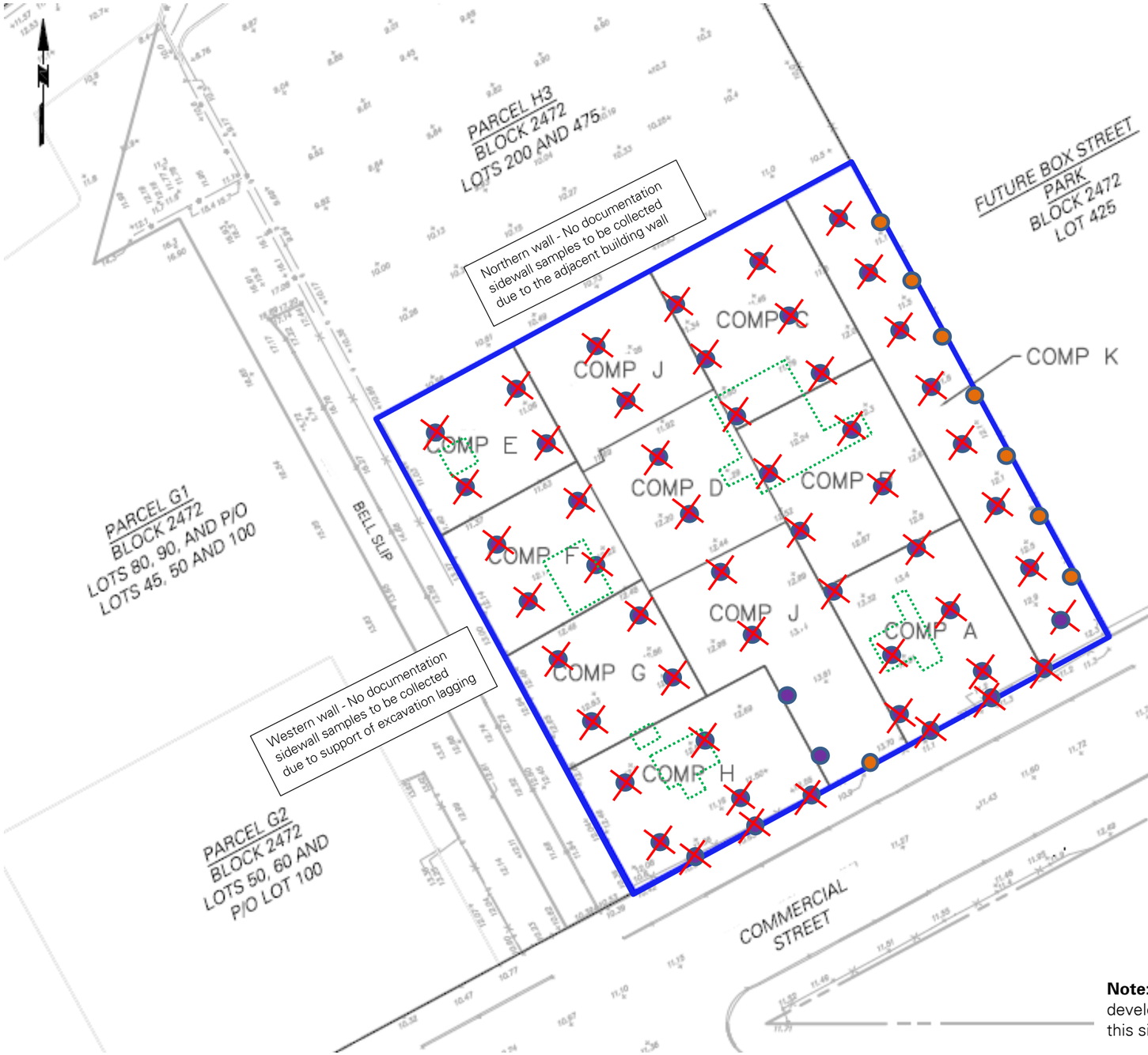
- STNY will continue mass excavating for the remedy and utilities and will continue exporting soil for off-site disposal.
- STNY will continue installing SMD system components and the vapor barrier.
- STNY will continue pouring concrete for the foundation slab.

SITE PLAN

Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

- **Site Boundary**
- **Waste Characterization Grid COMP I (5-10)**
- **Upwind CAMP station**
- **Downwind CAMP station**
- **Stockpile – Soil**
- **Stockpile – C&D (Concrete)**
- **Stockpile – Imported Material**
- **Approximate Location of Excavation**
- **Approximate Area of Backfilling**
- **Approximate Area of Regrading**
- **Approximate Area of Asphalt/Concrete Removal**
- **Approximate Location of Concrete Pouring**
- **Approximate Area of Installed Demarcation Layer**

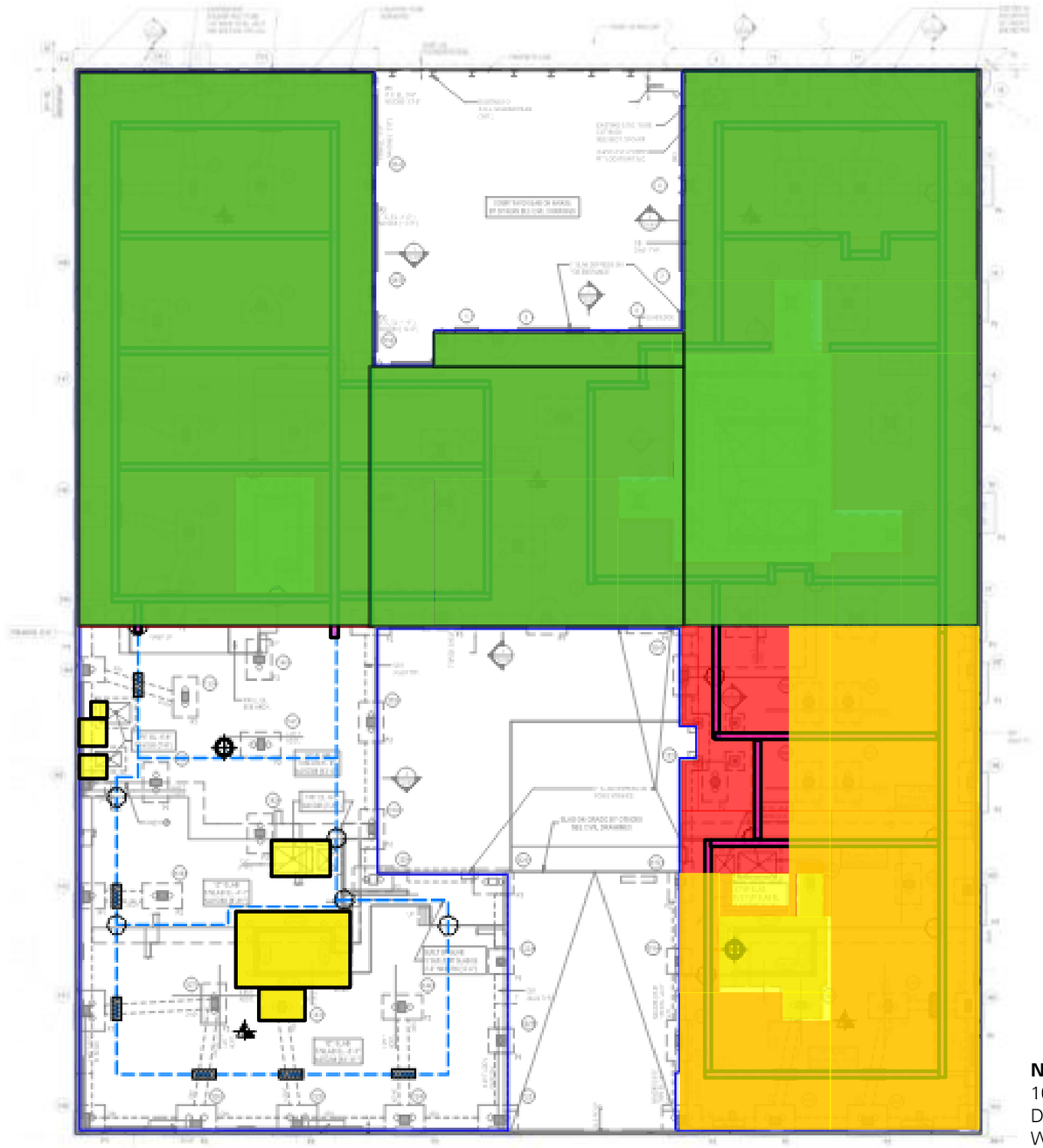
DOCUMENTATION SAMPLE PLAN



Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

- **Site Boundary**
- **Waste Characterization Grid COMP I (5-10)**
- **Proposed Base Documentation Sample Location**
- **Proposed Base Documentation Sample Location**
- **Documentation Sample Collected Today**
- **Previously Collected Documentation Sample**

WATERPROOFING/VAPOR BARRIER AND SMD INSTALLATION MAP



Site Boundary

Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower A

Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower B

SMD System Installation In Progress (Geotextile/Aggregate)

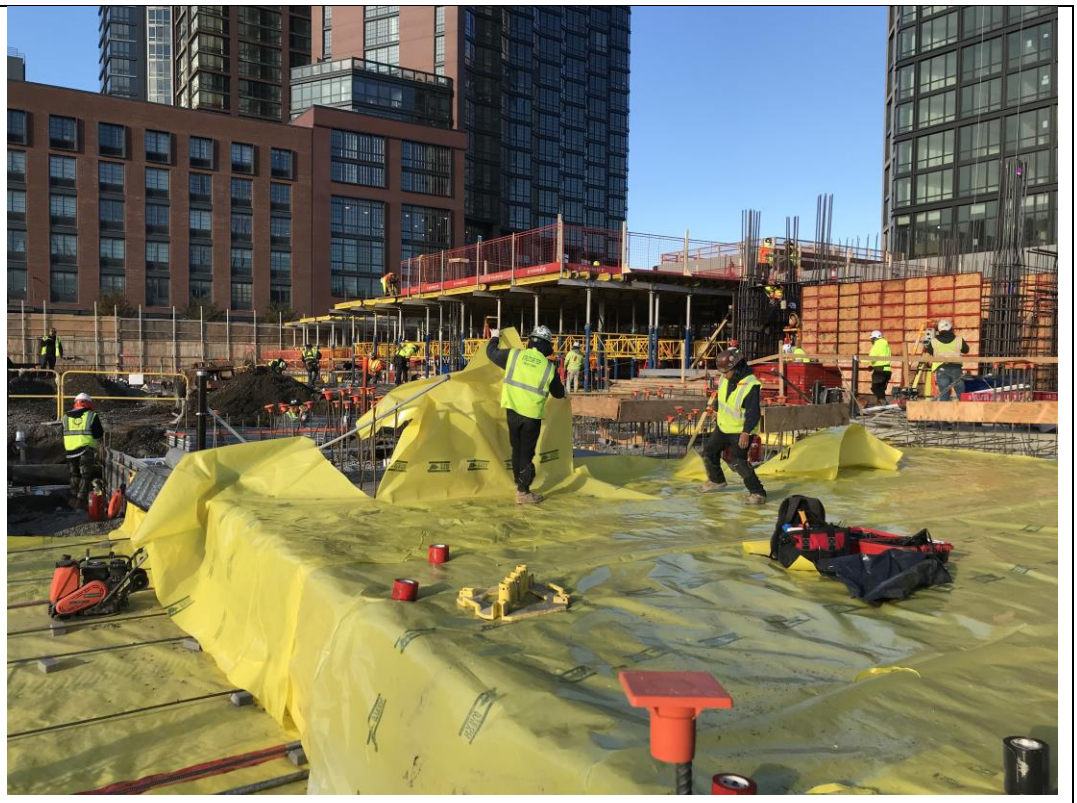
SMD System Installation In Progress (SMD Piping)

SMD System Installation In Progress (Waterproofing/Vapor Barrier)

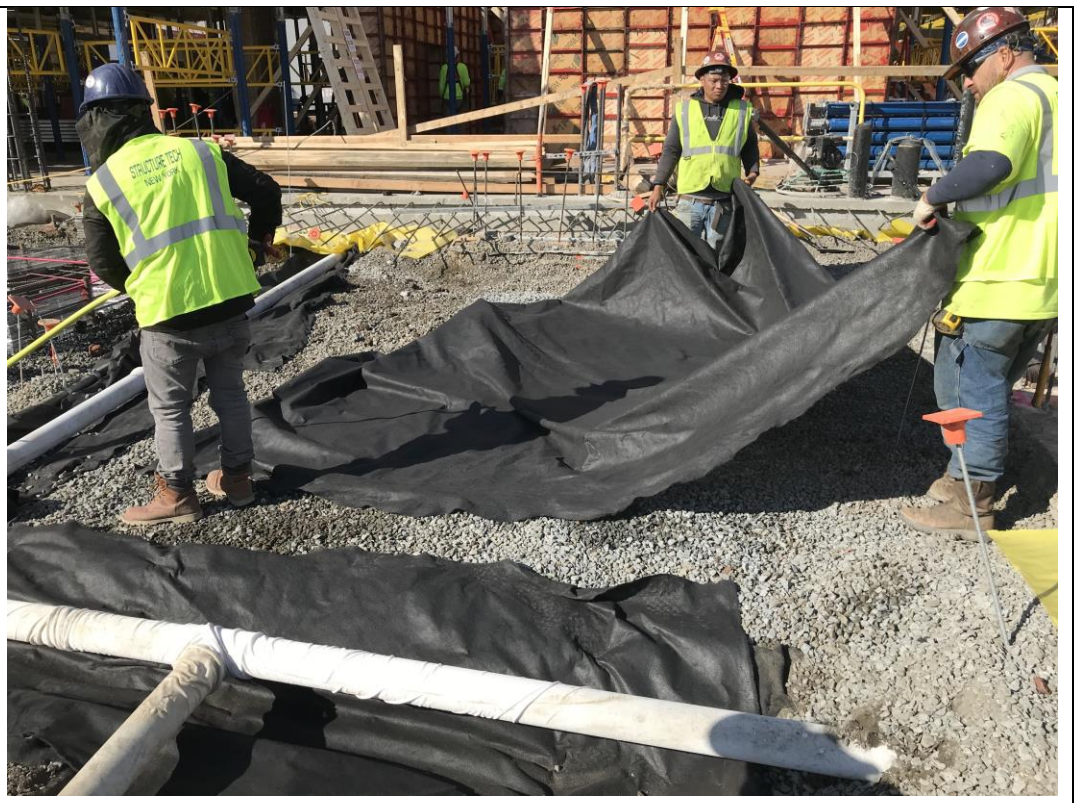
Concrete Foundation Slab Poured

Note: Base Map Source: Drawing FO-100.00, Foundation (1st Floor) Plan, Dated December 20, 2019, Prepared by WSP USA.

Photo Log

Photo 1: View of STNY installing vapor barrier in waste characterization grids COMP A and COMP B (facing northwest).	
Photo 2: View of STNY backfilling with imported 0.75-inch stone around pile caps in waste characterization grid COMP B (facing southeast).	

File Name: 2021-11-04 Daily Field Report_085

Photo 3: View of STNY placing geotextile fabric in waste characterization grid COMP B (facing north).	
Photo 4: General View of vapor barrier installation in waste characterization grids COMP A and COMP B (facing north).	

File Name: 2021-11-04 Daily Field Report_085

DAILY FIELD REPORT 086

Prepared By: LANGAN

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Sunny	x
TEMP.	< 32		32-50	x	50-70	x	70-85		>85	

BCP Project No:	C224304	**Date:**	November 5, 2021
Project Name:	45 Commercial Street	**Time:**	6:45 am to 2:00 pm

Consultant: Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan)

Construction Manager: Monadnock Construction Inc. (MC)
Foundation Contractor: StructureTech New York, Inc. (STNY)
Soil Broker: Clean Earth, Inc. (CE)

Langan Field Personnel:
TJ Malgieri

Work Activities Performed:

- STNY temporarily excavated an about 15-foot long by 2-foot wide area in waste characterization grid COMP K to a maximum depth of about 2 feet bgs to install pour stops for future concrete placement. Excavated material consisted of imported 0.75-inch stone, did not did not exhibit signs of chemical- or petroleum-like contamination, and was temporarily stockpiled adjacent to the excavation. Following installation of the pour stops, the excavation was backfilled with the same stone that was previously excavated.
- STNY backfilled an about 25-foot-long by 20-foot-wide area in waste characterization grid COMP B with New York State Department of Environmental Conservation (NYSDEC)-approved 0.75-inch virgin stone from Tilcon - Mt. Hope Quarry from about 2 feet below grade surface (bgs) (from original site grade) to about 1 feet bgs to fill in previous excavations.
- STNY installed vapor barrier membrane (Stego® Wrap 20 Mil) in an about 35-foot-long by about 25-foot-wide area in waste characterization grids COMP A and COMP B above the gas permeable aggregate layer. Vapor barrier seams were set with at least 6-inches of overlap and sealed with Stego® Tape. Vapor barrier installation documentation is to verify general conformance with specifications and contract documents. Any rips, tears, or holes observed during the installation were sealed with Stego® Tape.

Material Tracking:

- No soil/fill was exported from the site.
- The following materials were imported to the site:
    - STNY imported 2 loads of 0.75-inch virgin stone from the Tilcon – Mt. Hope Quarry. Imported material was used as backfill in waste characterization grid COMP B or was added to an existing stone stockpile in waste characterization grid COMP J South.

Samples Collected:

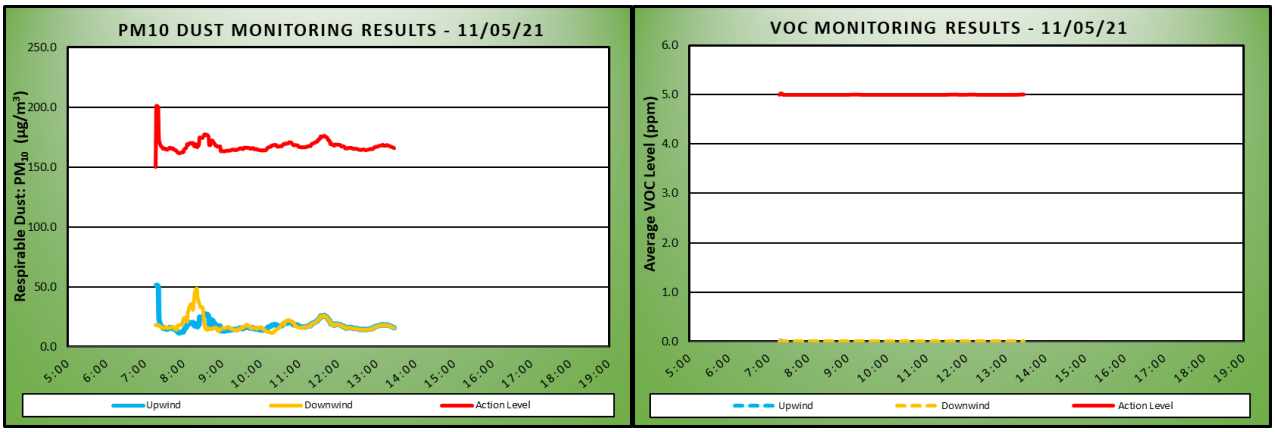
- No samples were collected.

Air Monitoring

Particulate Monitoring (µg/m³)			Organic Vapor Monitoring (ppm)		
Daily background	51.5		Daily background	0.0	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	18.7	18.4	Daily Time Weighted Average	0.0	0.0
Maximum 15-min Average	51.5	48.6	Maximum 15-min Average	0.0	0.0
Minimum 1-min Instant Reading	8.3	8.8	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	414.8	142.5	Maximum 1-min Instant Reading	0.3	0.0

µg/m³-micrograms per cubic meter. ppm= parts per million.

No particulate or organic vapor exceedances at the downwind station were encountered. The daily Community Air Monitoring Program (CAMP) monitoring results are also presented in the following charts:



Planned Activities:

- STNY will continue mass excavating for the remedy and utilities and will continue exporting soil for off-site disposal.
- STNY will continue installing SMD system components and the vapor barrier.
- STNY will continue pouring concrete for the foundation slab.

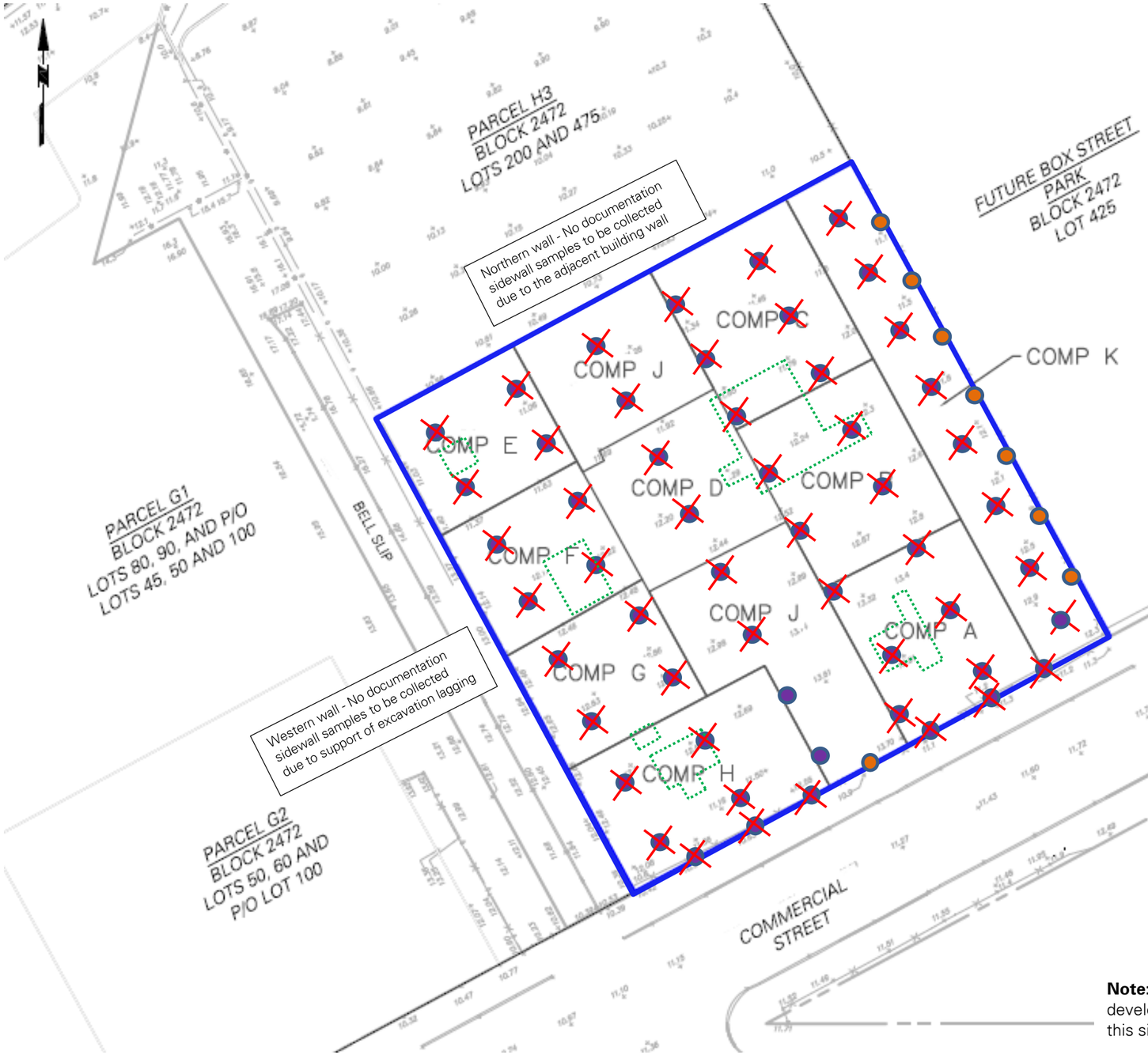
File Name: 2021-11-05 Daily Field Report_086

SITE PLAN

Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

- **Site Boundary**
- **Waste Characterization Grid COMP I (5-10)**
- **Upwind CAMP station**
- **Downwind CAMP station**
- **Stockpile – Soil**
- **Stockpile – C&D (Concrete)**
- **Stockpile – Imported Material**
- **Approximate Location of Excavation**
- **Approximate Area of Backfilling**
- **Approximate Area of Regrading**
- **Approximate Area of Asphalt/Concrete Removal**
- **Approximate Location of Concrete Pouring**
- **Approximate Area of Installed Demarcation Layer**

DOCUMENTATION SAMPLE PLAN



Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

Site Boundary

Waste Characterization Grid COMP I (5-10)

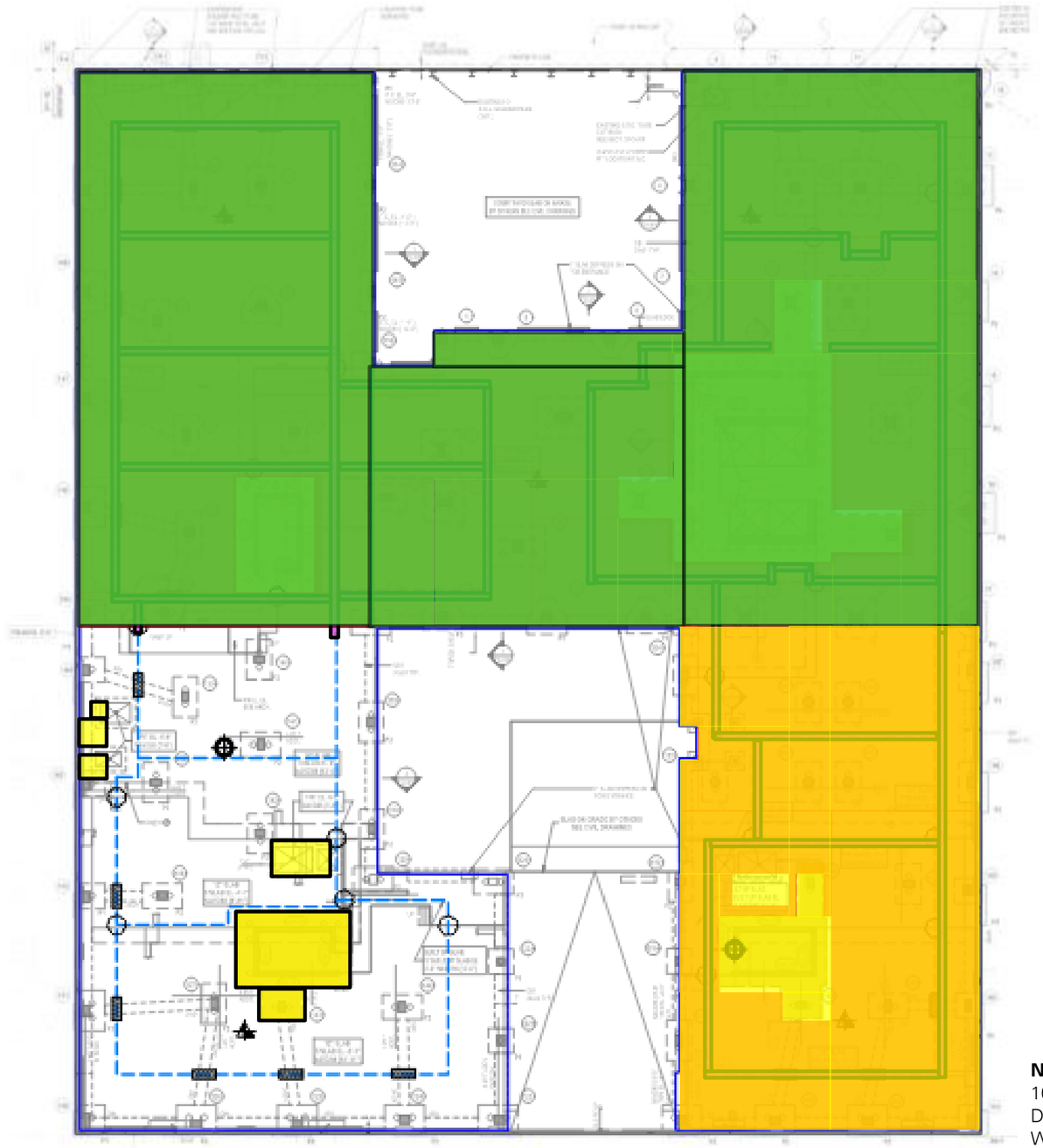
Proposed Base Documentation Sample Location

Proposed Base Documentation Sample Location

Documentation Sample Collected Today

Previously Collected Documentation Sample

WATERPROOFING/VAPOR BARRIER AND SMD INSTALLATION MAP



Note: Base Map Source: Drawing FO-100.00, Foundation (1st Floor) Plan, Dated December 20, 2019, Prepared by WSP USA.

- **Site Boundary**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower A**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower B**
- **SMD System Installation In Progress (Geotextile/Aggregate)**
- **SMD System Installation In Progress (SMD Piping)**
- **SMD System Installation In Progress (Waterproofing/Vapor Barrier)**
- **Concrete Foundation Slab Poured**

Photo Log

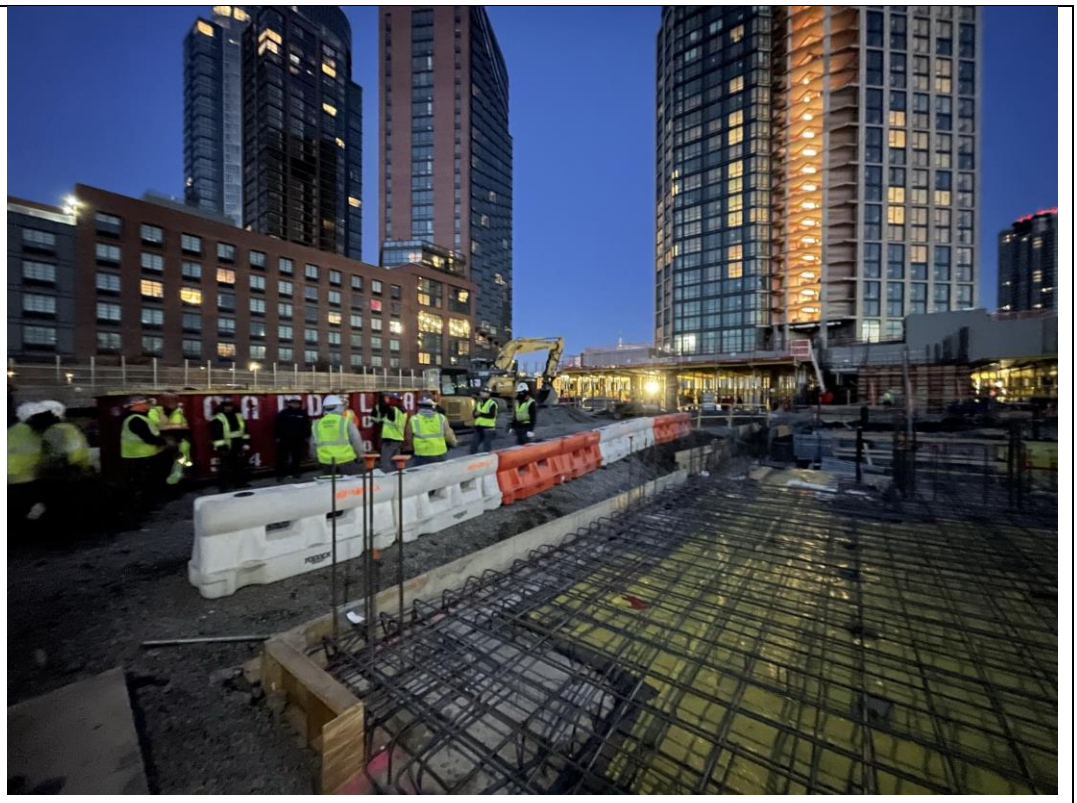
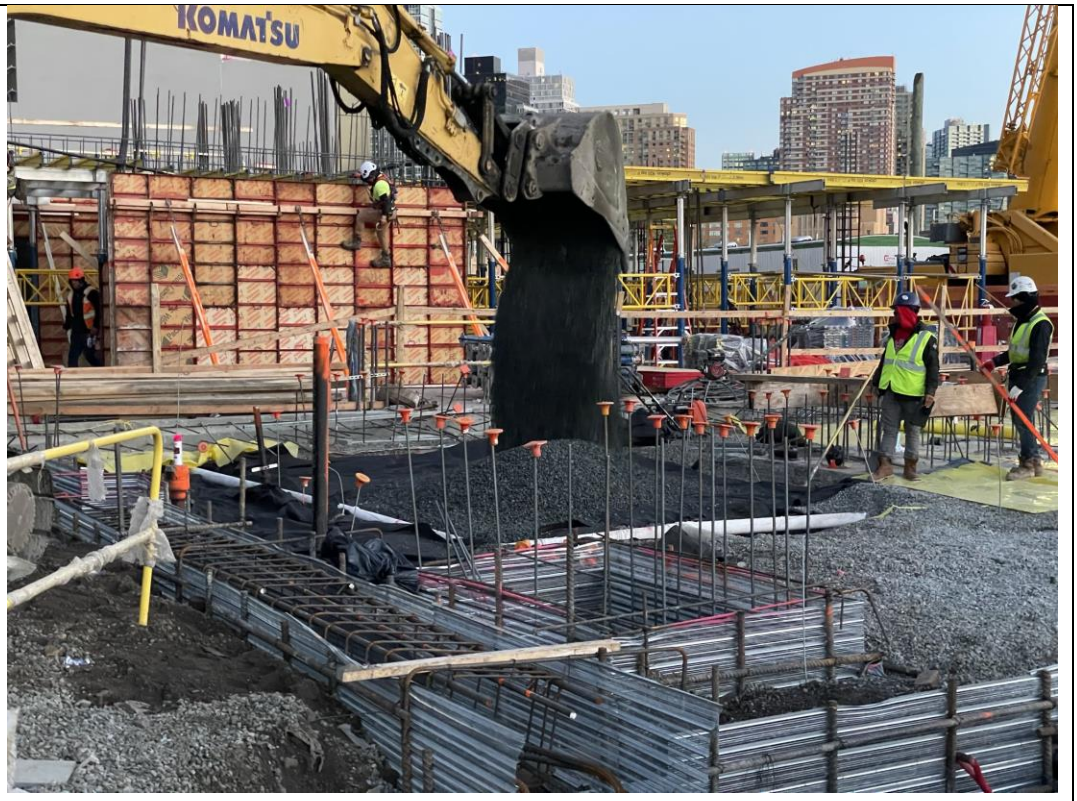
Photo 1: General view of site at the beginning of the day (facing northwest).	
Photo 2: View of importing 0.75-inch stone from the Tilcon – Mt. Hope Quarry (facing northeast).	

Photo 3: View of STNY using imported 0.75-inch virgin stone to backfill in waste characterization grid COMP B (facing northeast).	
Photo 4: General view of vapor barrier installation in waste characterization grid COMP B (facing south).