

## SITE OBSERVATION REPORT

<p><b>PROJECT No.:</b> 170381202</p> <p><b>PROJECT:</b> 250 Water Street</p> <p><b>LOCATION:</b> New York, NY</p> <p><b>BCP SITE ID:</b> C231127</p>	<p><b>CLIENT:</b> 250 Seaport District, LLC c/o The Howard Hughes Corporation</p>	<p><b>DATE:</b> Tuesday, March 28, 2023</p> <p><b>WEATHER:</b> Overcast/Sunny, 43 – 52 °F Wind: ENE @ 0 – 4.5 mph</p> <p><b>TIME:</b> 6:15 am – 3:15 pm</p> <p><b>MONITOR</b> Caroline Devin</p>
<p><b>EQUIPMENT:</b> CME75 Truck-Mounted Drill Rig Jerome J505 RKI GX-6000 Photoionization Detector Aeroqual ASQ1 Particulate and VOC Monitors</p>	<p><b>PRESENT AT SITE:</b> <span style="float: right;"><b>Day 137</b></span>  <b>Langan</b> (Environmental) Caroline Devin, Ali Reach, Paul McMahon  <b>Suffolk Construction</b> (General Contractor) Anthony Galu  <b>East Coast Drilling</b> (Foundation Contractor)  <b>Craig Geotechnical Drilling Co., Inc.</b> (Geotechnical Drilling Contractor)  Sean Cleary, Keith Parent  <b>New York State Department of Environmental Conservation</b>  <b>(NYSDEC)</b> Rafi Alam  <b>Hylan Datacom &amp; Electrical, LLC</b> (New York City Department of  Transportation [NYCDOT] Contractor) Andrew Ross, Luis Rivera Jr.</p>	
<p><b>OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:</b></p> <p>Langan was present to document remediation activities in accordance with the NYSDEC-approved November 2021 Remedial Action Work Plan (RAWP) at the 250 Water Street site (NYSDEC Brownfield Cleanup Program [BCP] Site No C231127).</p> <p><b>Site Activities</b></p> <ul style="list-style-type: none"> <li>• Craig Geotechnical Drilling Co., Inc. (Craig) used a CME75 truck-mounted drill rig to advance one geotechnical soil boring along the western (Beekman Street) boundary of the site. The geotechnical boring was advanced to about 150 feet below grade surface (bgs), which was the apparent bedrock depth based on observations from Craig, using mud-rotary drilling techniques. <ul style="list-style-type: none"> <li>○ Drilling spoils generated from drilling activities were containerized in a sealed and labeled United Nations/Department of Transportation (UN/DOT)-approved drum, which was staged in the western part of the site for future sampling and off-site disposal at a later date.</li> </ul> </li> <li>• Hylan Datacom &amp; Electrical, LLC (Hylan), on behalf of the NYCDOT, used hand tools to excavate an about 4-foot-wide trench to the northwest of the site (off-site, within the perimeter construction fencing at the corner of Beekman Street and Pearl Street) for upgrade of city-wide telecommunications infrastructure. Excavated soil/fill was temporarily stockpiled adjacent to the work area prior to backfill into the initial location at the end of the work day.</li> </ul>		
<p>Cc:</p>	<p>M. Raygorodetsky, P. McMahon, M. Au</p>	<p>By: Caroline Devin</p> <p><b>LANGAN</b></p>

## SITE OBSERVATION REPORT

### Material Tracking

- No material was exported from the site.
- No material was imported to the site.

Material Import Summary								
Facility Name Location Type of Material	Stone Industries, Inc. Haledon, NJ 1.5/2.5-inch Virgin Stone		Stone Industries, Inc. Haledon, NJ 0.75-inch Virgin Stone		Impact Reuse & Recovery Center or Impact Materials Jersey City, Lyndhurst/Jersey City, NJ 1.5-inch Clean Bluestone		Impact Reuse & Recovery Center, Lyndhurst, NJ General Fill	
Quantities	No. of Loads	Approx. Volume (Tons)	No. of Loads	Approx. Volume (Tons)	No. of Loads	Approx. Volume (Tons)	No. of Loads	Approx. Volume (Tons)
Today	0	0	0	0	0	0	0	0
Project Total	8	184.42	0	0	15	339.65	336	8,216.79
NYSDEC Approved:	1,800 tons*			720 tons*			19,500 tons*	

\*0.75-inch, 1.5-inch, and 2.5-inch virgin stone from the Stone Industries, Inc. facility and 1.5-inch clean bluestone from the Impact Reuse & Recovery Center (IRRC) facility were approved for import of 1,000 cubic yards (CY) and 400 CY, respectively. Assuming a conversion factor of 1.8, each quantity was converted to tons in order to accurately compare with import weight tickets. General fill from the IRRC facility was approved for import of 13,000 CY and a conversion factor of 1.5 is applied.

### Material Export Summary (1 of 2)

Facility Name Location Type of Material	Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris		IRRC Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous Soil/Fill	
Quantities	No. of Loads	Approx. Volume (CY)	No. of Loads	Approx. Volume (CY)	No. of Loads	Approx. Volume (CY)	No. of Loads	Approx. Volume (CY)
Today	0	0	0	0	0	0	0	0
Project Total	5	85	42	840	95	1,900	216	4,320

### Material Export Summary (2 of 2)

Facility Name Location Type of Material	Middlesex County Landfill East Brunswick, NJ Non-hazardous Soil/Fill		Bayshore Soil Management Keasbey, NJ Petroleum-Impacted Soil/Fill		Clean Earth of Carteret, NJ Carteret, NJ Non-hazardous Soil/Fill	
Quantities	No. of Loads	Approx. Volume (CY)	No. of Loads	Approx. Volume (CY)	No. of Loads	Approx. Volume (CY)
Today	0	0	0	0	0	0
Project Total	261	5,220	267	5,340	66	1,320

### Sampling

- No samples were collected.

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## SITE OBSERVATION REPORT

### CAMP Activities

Langan performed air monitoring at the perimeter of the site and across Beekman Street at seven total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10), during ground-intrusive activities. There were no fifteen-minute average concentrations for mercury vapor, VOCs, or PM10 that approached or exceeded the action levels established by the CAMP (1.00  $\mu\text{g}/\text{m}^3$ , 5.0 parts per million [ppm], and 0.100  $\text{mg}/\text{m}^3$  respectively).

### Background Concentrations

Prior to implementation of ground-intrusive work, instantaneous background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome<sup>®</sup> J505 mercury vapor analyzer and a handheld PID, respectively.

- Background concentrations of mercury vapor at each CAMP station were recorded at 0.00  $\mu\text{g}/\text{m}^3$ .
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

### Perimeter and Work Zone Concentrations

#### Daily Average Concentrations

Station ID	Particulate ( $\text{mg}/\text{m}^3$ )	Organic Vapor (ppm)	Mercury Vapor ( $\mu\text{g}/\text{m}^3$ )
PM-1	0.004	0.0	0.01
PM-2	0.004	0.0	0.01
PM-3	0.003	0.0	0.01
PM-4	0.003	0.0	0.01
PM-5	0.003	0.0	0.01
PM-6	0.005	0.0	0.01
WZ-1	0.004	0.0	0.01

#### Maximum 15-Minute-Average Concentrations

Station ID	Particulate ( $\text{mg}/\text{m}^3$ )	Organic Vapor (ppm)	Mercury Vapor ( $\mu\text{g}/\text{m}^3$ )
PM-1	0.011	0.0	0.06
PM-2	0.012	0.0	0.07
PM-3	0.012	0.0	0.02
PM-4	0.012	0.0	0.02
PM-5	0.011	0.0	0.07
PM-6	0.013	0.0	0.02
WZ-1	0.008	0.0	0.03

•  $\text{mg}/\text{m}^3$  = milligrams per cubic meter    • ppm = parts per million    •  $\mu\text{g}/\text{m}^3$  = micrograms per cubic meter

### Equipment Troubleshooting

- Mercury vapor was not recorded at perimeter CAMP station PM-4 from 11:58am to 2:15pm due to a data logging issue with the Jerome<sup>®</sup> J505 unit. The Jerome<sup>®</sup> J505 remained operational and screening results were monitored for the remainder of the work day. Mercury vapor was not identified at concentrations above background conditions during this time.

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### Ambient Air (Handheld Jerome® J505 and Handheld PID)

- The dedicated mobile monitor (Langan) used a handheld Jerome® J505 mercury vapor analyzer to monitor ambient air conditions at various heights throughout the site. Instantaneous mercury vapor concentrations throughout the site ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.09  $\mu\text{g}/\text{m}^3$ .
- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations were not detected above background concentrations throughout the work day.

### Off-Site CAMP Station Relocation

- CAMP station WZ-1 was relocated to the western sidewalk of Beekman Street from 7:49am to 2:14pm during advancement of a geotechnical boring in the southwestern part of the site.

### Prior to CAMP Shutdown

Prior to discontinuing CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued sequentially between 2:05pm and 2:15pm at the conclusion of ground-intrusive activities.

- Background concentrations of mercury vapor at each CAMP station were recorded at 0.00  $\mu\text{g}/\text{m}^3$ .
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

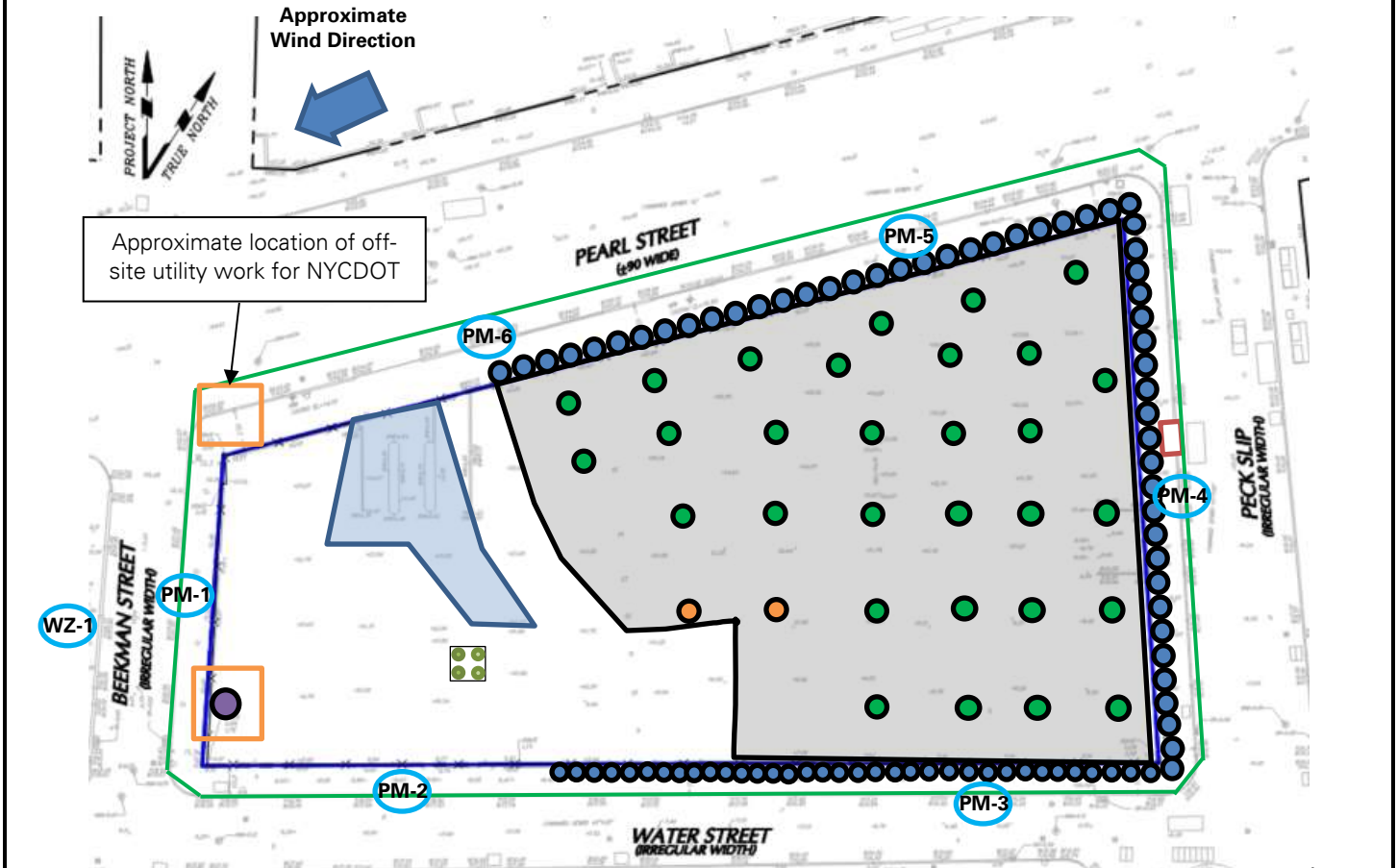
### Anticipated Activities

- Craig will continue advancing geotechnical borings along the perimeter of the site.
- Langan will begin advancement of soil borings in the southwestern part of the site for waste characterization soil sampling to facilitate future off-site disposal of excavated soil/fill.

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## SITE OBSERVATION REPORT

### Site Map



### Legend:

- PM-1 Approximate Location of Air Monitoring Station
- Approximate Work Area
- Approximate Location of Installed Pile Cap
- Approximate Location of Foundation Piles Completed
- Approximate Location of Truck Tracking Pad
- Approximate Location of Geotechnical Boring Completed Today

### Notes:

1) Locations of air monitoring stations are approximate.

- Approximate Location of 55-gallon drum
- Approximate Location of Soldier Pile
- Approximate Perimeter Construction Fence Location
- Previous Excavation Area
- Approximate Location of Documentation Sample
- Approximate Location of Previously Collected Endpoint Sample

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By: Caroline Devin

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## SITE OBSERVATION REPORT

### Select Site Photographs:



Photo 1: Craig preparing to advance a geotechnical boring in the southwestern part of the site (facing east)



Photo 2: ECD washing a vehicle on the tracking pad prior to exiting the site (facing southwest)

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