

SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

DATE: Thursday, October 19, 2023

PROJECT:

LOCATION:

250 Water Street

250 Seaport District, LLC

WEATHER: c/o The Howard

Sunny, 47 – 63° F

Wind: NE @ 0.1 - 1.5 mph

New York, NY

TIME:

5:45am - 5:15pm

BCP SITE ID: C231127 **MONITOR**

Gabriella DeGennaro

EQUIPMENT:

CAT 335 Excavator CAT 328 Excavator Komatsu PC210 Excavator

Delmag Drill Rig

Bauer RTG RG 27S Bauer BG45 Drill Rig

Casagrande M6A-1 Tieback Drill Rig Jerome J505 Mercury Vapor Analyzer RKI GX-6000 Photoionization Detector (PID) Aeroqual ASQ1 Air Monitoring Station

PRESENT AT SITE:

Hughes Corporation

Day 228 Langan (Environmental/Geotechnical) Gabriella DeGennaro, Michael

Cole, Pradeep Pandey

Suffolk Construction (Suffolk) (General Contractor) Wyatt Favia East Coast Drilling, Inc. (ECD) (Foundation Contractor) Mike Brosnan **New York State Department of Environmental Conservation**

(NYSDEC) Shawn Roberts

Earth Efficient (Soil Broker) Yinette Batista AKRF, Inc. (Archaeologist) Theresa Imbriolo

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

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).

Site Activities

- ECD used a Bauer RTG RG 27S drill rig to pre-drill one borehole in the southeast part of the site to loosen the underlying soil in preparation for soil mix column installation.
- ECD used a Bauer BG45 drill rig to install one deep soil mix column for support-of-excavation (SOE) system installation in the southeast part of the site (along Water Street). ECD's drill rig advanced a steel rod with two cutter blades at the bottom of the rod, while concurrently injecting grout through the cutting head and spinning and advancing the blades downward to a depth of about 110 feet below grade surface (bgs).
 - o No drilling spoils were generated during installation of the soil mix column.
 - o Excess grout was contained within a temporary containment area in the eastern part of the site and will be managed as construction and demolition (C&D) debris at a later date.
 - ECD attempted to advance a second soil mix column in the southern part of the site. An obstruction was encountered at about 30 feet bgs and the soil mix column was abandoned for re-drilling at a later date.
- ECD excavated an about 10-foot-long by 15-foot-wide area to a maximum depth of about 3 feet below the existing grade (about 8 feet below sidewalk grade [bsg]) in the western part of the site (waste characterization cell WC02) for removal and off-site disposal of soil/fill.
 - o Excavated soil/fill was screened for odors, staining, organic vapors, and mercury vapor using a handheld PID and handheld Jerome® J505 mercury vapor analyzer, respectively. Evidence of impacts was not observed, and the excavated soil/fill was live-loaded into securely covered tri-axle dump trucks for off-site disposal.

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Page 2 of 8

SITE OBSERVATION REPORT

•	ECD excavated an about 10-foot-long by 10-foot-wide area to a maximum depth of about 6 feet below the
	existing grade (about 10 feet bsg) in the southern part of the site (waste characterization cells WC03 and
	WC06) for removal and off-site disposal of soil/fill.

- Excavated soil/fill was screened for odors, staining, organic vapors, and mercury vapor using a handheld PID and handheld Jerome® J505 mercury vapor analyzer, respectively. Evidence of impacts was not observed, and the excavated soil/fill was live-loaded into securely covered tri-axle dump trucks for off-site disposal.
- ECD graded soil/fill in an about 100-foot-long by 100-foot-wide area in the eastern part of the site to stabilize the surface for SOE system installation.
 - o Graded soil/fill was screened for odors, staining, organic vapors, and mercury vapor using a handheld PID and handheld Jerome® J505 mercury vapor analyzer, respectively. Evidence of impacts was not observed and the soil/fill generated from grading activities was added to the stockpile in the northeast part of the site for future off-site disposal.
- ECD continued installation of the concrete guide wall in the southern part of the site (along Water Street). The concrete guide wall will be used to facilitate installation of SOE along the perimeter of the site.

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Page 3 of 8

SITE OBSERVATION REPORT

Material Tracking

- ECD exported 18 truckloads (about 360 cubic yards [CY]) of C&D debris for off-site disposal at the Earth Efficient MSM facility located in East Stroudsburg, PA.
- ECD exported eight truckloads (about 160 CY) of soil/fill for off-site disposal at the Middlesex County Landfill (MCUA) Facility in East Brunswick, NJ.
- No material was imported to the site.

Material Import Summary								
Facility Name Location Type of Material	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	13	309.28	0	0	15	339.65	374	9,157.85
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 3)								
Facility Name Location Type of Material	Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris		IRRC Lyndhurst, NJ C&D Debris		Earth Efficient MSM East Stroudsburg, PA C&D Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted 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	18	360	0	0
Project Total	5	85	42	840	231	4,620	107	2,140

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Page 4 of 8

SITE OBSERVATION REPORT

Material Export Summary (2 of 3)								
Facility Name Location Type of Material	Location East Brunswick, NJ		Keas	oil Management sbey, NJ mpacted Soil/Fill	Clean Earth of Carteret, NJ Carteret, NJ Non-hazardous Soil/Fill			
Quantities	No. of Loads	No. of Loads Approx. Volume (CY) No		Approx. Volume (CY)	No. of Loads	Approx. Volume (CY)		
Today	8	160	0	0	0	0		
Project Total	322	6,440	267	5,340	66	1,320		

	Material Export Summary (3 of 3)									
Facility Name Location Type of Material Clean Earth of North Jersey Kearny, NJ Non-hazardous Soil/Fill		Eliz	e Chem, Inc. abeth, NJ id - Impacted Soil/Fill	Harmony Foul Rift (HFR) Belvidere, 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	201	4,020	10	200	27	540				

Sampling

- Langan collected one confirmation endpoint soil sample (EP19A_EL_-0.5) and quality assurance/quality control [QA/QC] samples for laboratory analysis of target compound list (TCL) and NYSDEC Part 375 volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs) (including 1,4-dioxane), pesticides, polychlorinated biphenyls (PCBs), target analyte list (TAL) metals (including hexavalent/trivalent chromium and total cyanide), and/or per- and polyfluoroalkyl substances (PFAS).
- Samples were relinquished to Alpha Analytical, an Environmental Laboratory Accredited Program (ELAP)-certified laboratory, under standard chain-of-custody protocols.

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Page 5 of 8

SITE OBSERVATION REPORT

CAMP Activities

Langan performed air monitoring at the perimeter of the site, at the northern sidewalk of Pearl Street, at the western sidewalk of Beekman Street, at the eastern sidewalk of Peck Slip, and at the southern sidewalk of Water Street at eight total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10) from about 6:56am to 4:00pm. 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 μ g/m³, 5.0 ppm, or 0.100 mg/m³, respectively).

Background Concentrations

Prior to implementation of CAMP, instantaneous background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome[®] J505 mercury vapor analyzer and a handheld PID, respectively.

- Background concentrations of mercury vapor at each CAMP station were recorded at 0.00 µg/m³.
- 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 (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.008	0.01	0.02
PM-2	0.012	0.02	0.02
PM-3	0.006	0.01	0.00
PM-4	0.007	0.02	0.02
WZ-1	0.006	0.01	0.00
WZ-2	0.009	0.02	0.00
WZ-3	0.005	0.02	0.01
WZ-4	0.007	0.03	0.01

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.016	0.10	0.04
PM-2	0.041	0.14	0.08
PM-3	0.010	0.09	0.01
PM-4	0.012	0.08	0.08
WZ-1	0.009	0.07	0.01
WZ-2	0.048	0.09	0.01
WZ-3	0.008	0.09	0.03
WZ-4	0.011	0.12	0.03

•mg/m³ = milligrams per cubic meter •ppm = parts per million •µg/m³ = micrograms per cubic meter

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Page 6 of 8

SITE OBSERVATION REPORT

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 µg/m³ to 0.11 µg/m³.
- 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 workday.

Off-site CAMP Stations

- CAMP station WZ-1 was placed on the western sidewalk of Beekman Street from about 7:04am to 4:00pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from about 7:06am to 4:02pm.
- CAMP station WZ-3 was placed on the eastern sidewalk of Peck Slip from about 7:13am to 4:07pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from about 7:00am to 4:10pm.

Prior to CAMP Shutdown

Prior to discontinuing CAMP, mercury vapor and VOC concentrations were confirmed to return to background conditions at each perimeter station using the handheld Jerome® J505 mercury vapor analyzer and handheld PID, respectively. Perimeter CAMP stations were discontinued sequentially between 4:00pm and 4:09pm.

- Background concentrations of mercury vapor at each CAMP station were recorded at 0.00 μg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Anticipated Activities

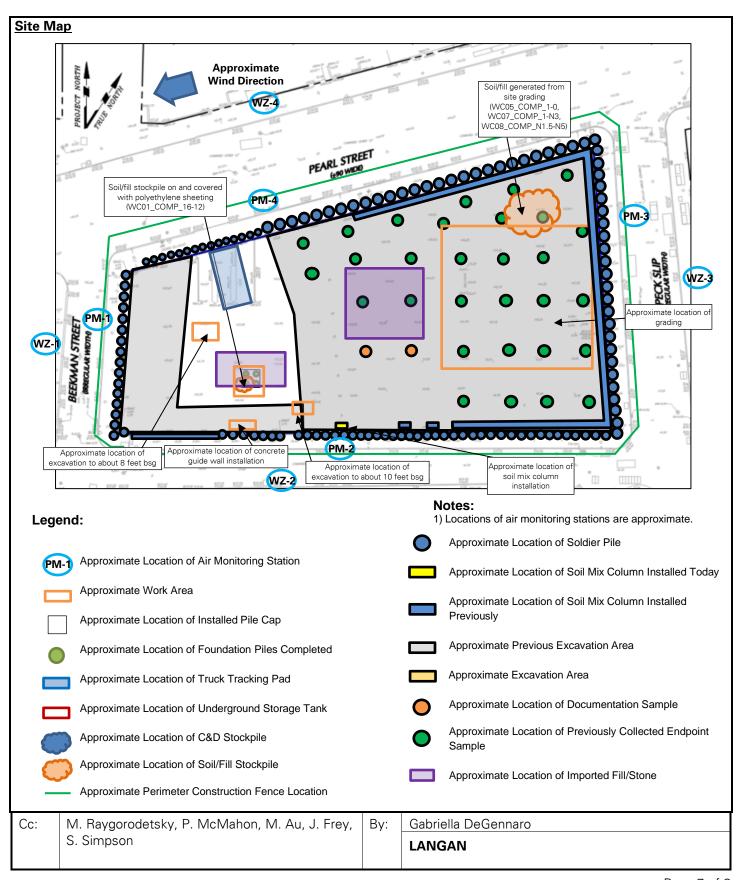
- ECD will continue exporting C&D and soil/fill from the eastern part of the site for off-site disposal.
- ECD will continue installing soil mix columns and/or soldier piles for SOE installation along Pearl Street and Water Street.
- ECD will continue installing tiebacks for the SOE system along Beekman and Pearl Streets.

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Page 7 of 8

SITE OBSERVATION REPORT





Langan PN: 170381202 Thursday, October 19, 2023 Page 8 of 8

SITE OBSERVATION REPORT

Select Site Photographs:

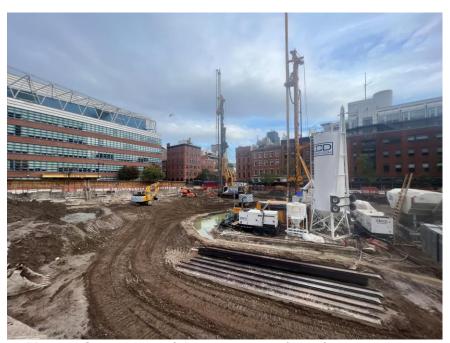


Photo 1: General view of the eastern part of site (facing southeast)



Photo 2: ECD loading a truck with C&D debris for off-site disposal (facing north)

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