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Day 253

SITE OBSERVATION REPORT

250 Seaport District,

Hughes Corporation

c/o The Howard

PROJECT No.: 170381202

CLIENT:

DATE: Saturday, November 18, 2023

LLC

PROJECT: 250 Water Street

WEATHER: Sunny, 42 – 50 °F

Wind: SSE @ 0.2 - 2.1 mph

LOCATION: New York, NY

TIME: 8:00am – 3:30pm

BCP SITE ID: C231127

MONITOR Lisa Cristiano

EQUIPMENT:

CAT 335 Excavator CAT 328 Excavator Komatsu PC210 Excavator

Delmag Drill Rig Bauer RTG RG 27S Bauer BG 36H Drill Rig

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:

Langan (Environmental/Geotechnical) Lisa Cristiano, JN Stanley, Pradeep Pandey

Pandey

Suffolk Construction (Suffolk) (General Contractor) Anthony Galu,

Wyatt Favia

East Coast Drilling, Inc. (ECD) (Foundation Contractor) Daniel Rogers,

Mike Brosnan

New York State Department of Environmental Conservation

(NYSDEC) Meghan Medwid

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 BG45 drill rig to install one deep soil mix column in the northern part of the site (along Pearl Street) for the support-of-excavation (SOE) system installation. 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 columns.
 - Excess grout was contained within a temporary containment area in the northern part of the site and will be managed as construction and demolition (C&D) debris at a later date.
- ECD graded soil/fill in an about 50-foot-long by 30-foot-wide area in the northern part of the site to stabilize the surface for equipment access.
 - 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 stockpiled in the northeast part of the site for future off-site disposal.

Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	Lisa Cristiano
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Material Tracking

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

Material Import Summary								
Facility Name Location Type of Material	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	16	382.13	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	cation Construction & Demolition		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	0	0	0	0	
Project Total	5	85	42	840	300	5,980	142	2,840	

	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	Approx. Volume (CY)	No. of Loads	Approx. Volume (CY)	No. of Loads	Approx. Volume (CY)			
Today	0	0	0	0	0	0			
Project Total	398	7,980	267	5,340	66	1,320			

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	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. cabeth, NJ ad-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	17	340	135	2,700		

Sampling

•	No	samp	les	were	coll	lected.
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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 8:57am to 2:40pm. 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	0.003	0.00	* 0.02
PM-2	0.002	0.00	0.02
PM-3	0.002	0.00	0.00
PM-4	0.003	0.00	0.02
WZ-1	0.002	0.00	0.00
WZ-2	0.001	0.00	0.00
WZ-3	0.001	0.00	** 0.00
WZ-4	0.002	0.00	0.01

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.006	0.03	* 0.05
PM-2	0.002	0.01	0.18
PM-3	0.002	0.01	0.01
PM-4	0.008	0.04	0.04
WZ-1	0.004	0.00	0.01
WZ-2	0.002	0.00	0.00
WZ-3	0.002	0.00	** 0.02
WZ-4	0.005	0.00	0.02

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

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Equipment Troubleshooting

- * PM10 and VOC data were not recorded at perimeter CAMP Station PM-1 from 10:54am to 11:24am due to a depleted battery. The battery was replaced at 11:24am and data logging continued for the remainder of the day. PM10 and VOCs were not recorded above background conditions at off-site CAMP station WZ-1, and fugitive dust or odors were not obsevred migrating off-site during this time. The daily average and maximum 15-minute time-weighted average concentrations of mercury vapor calculated from the raw data are reflected in the above table and in the daily air monitoring report. Raw data from the Jerome® J505 unit within CAMP station PM-1 is provided as a separate attachment to this daily field report.
- ** Mercury vapor data from CAMP station WZ-3 was manually downloaded from the Jerome® J505 unit due to a datalogging issue which resulted in mercury vapor data not being transmitted to the remote telemetry system from 10:17am to 10:48 am. The daily average and maximum 15-minute time-weighted average concentrations of mercury vapor calculated from the raw data are reflected in the above table and in the daily air monitoring report. Raw data from the Jerome® J505 unit within CAMP station WZ-3 is provided as a separate attachment to this daily field 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 0.10 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 8:34am to 2:45pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from about 9:07am to 2:56pm.
- CAMP station WZ-3 was placed on the eastern sidewalk of Peck Slip from about 8:44am to 2:53pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from about 8:40am to 2:50pm.

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 2:40pm and 2:43pm.

- 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

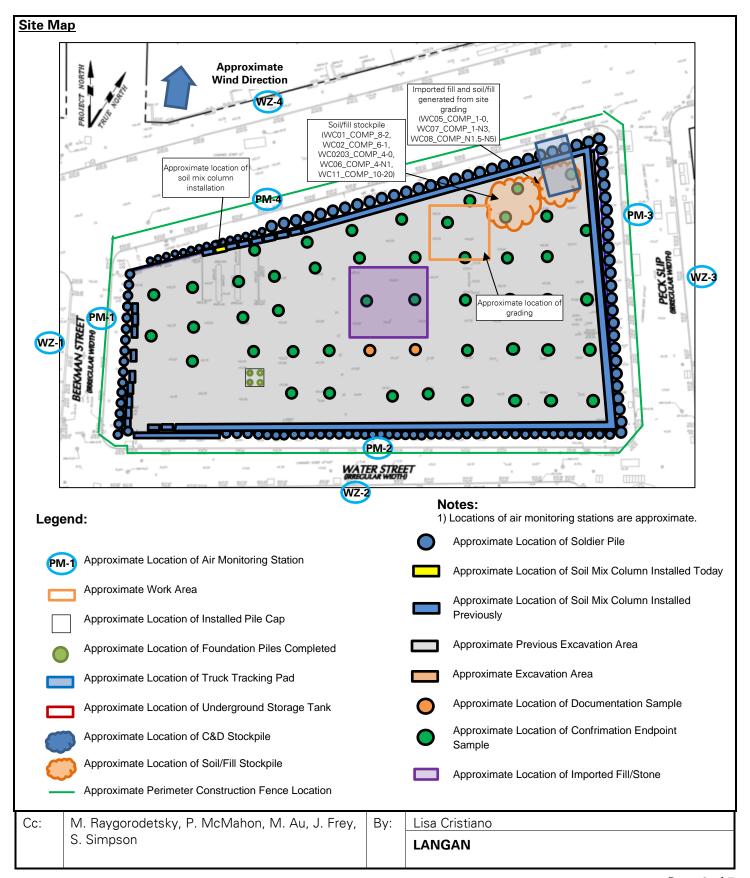
- ECD will continue exporting soil/fill across the site for off-site disposal.
- ECD will continue installing soil mix columns and/or secant piles for SOE system installation along Beekman,
 Pearl and Water Streets.
- ECD will continue installing tiebacks for the SOE system along Beekman and Pearl Streets.

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Select Site Photographs:



Photo 1: ECD grading soil/fill in the northeast part of site (facing southeast)



Photo 2: ECD installing a soil mix column in the northern part of site (facing west)

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