LANGAN SITE OBSERVATION REPORT – Pile Installation Oversight – Day 23

PROJECT No.:	170390001	**CLIENT:**	Third Street Owner LLC and 155 Third St., LLC	**DATE:**	Monday, 23 October 2023
PROJECT:	141 3rd Street			**WEATHER:**	Sunny, 46-62 ^{0}F Wind: WNW @ 0.6–4.7 mph
LOCATION:	Brooklyn, New York			**TIME:**	7:00 a.m. – 3:30 p.m.
BCP SITE ID:	C224336				

EQUIPMENT:
Soilmec SR-75 ADV Hydraulic Rotary Rig
Liebherr LB36 410 Rotary Drilling Rig
Junttan PM 25H Pile Driving Rig
FES FR180X-IV Rotary Drill Rig
Specto Technology Aeroqual Air Monitoring Stations (2)
Hyundai HX520L Excavator
Kotmasu PC400 Excavator
CAT 966G Excavator
Geoprobe® 7822 DT Drill Rig

PRESENT AT SITE:
Langan: Andrew Ashley
Monadnock Construction, Inc. (Construction Management):
Jim Spence – Superintendent
New Leaf Development (Pile Installation Contractor):
Jose Gomez – Foreman
Clean Earth, Inc. (Waste Characterization): Kelly Sanger
Coastal Environmental Solutions (Drilling): John Hudson
WSP (NYSDEC Consultant): Christopher Disclafani

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) was present to oversee implementation of soil handling procedures and document installation of foundation displacement piles in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved Excavation Work Plan, dated 17 February 2022, the associated Change of Use Notification, dated 09 August 2023. Clean Earth, Inc. (Clean Earth) and Coastal Environmental Solutions (Coastal) were present to implement an additional waste characterization plan, approved via email by the NYSDEC on 17 October 2023.

Site Activities

- Langan implemented the Community Air Monitoring Plan (CAMP) and documented investigation activities during the additional waste characterization implemented by Clean Earth and Coastal.
- Coastal used a Geoprobe® 7822DT direct-push drill rig to advance 22 soil borings to about 5 feet below surface grade (bgs) (between el. 3.66± and 0.81±[1]) across the site footprint. Clean Earth screened the recovered soil for evidence of environmental impacts and collected waste characterization samples (see sampling section for details). Impacts were not observed. Following sample collection, boreholes were filled to grade with soil cuttings free of visual impacts.
- Langan collected waste characterization samples from the 55-gallon drums staged on site, generated during the In-Situ Geochemical Stabilization (ISGS) and In-Situ Stabilization/Solidification (ISS) treatability study (see sampling section for details).
- Langan collected a waste characterization sample from the timber stockpile on site, generated from the removal of obstructions during pile installation (see sampling section for details).
- A representative from WSP conducted a site visit on behalf of the NYSDEC. No adverse conditions were noted as a result of the site visit and no further action was required.

Material Tracking

- One 55-gallon drum containing decontamination fluid and purged groundwater is staged in the east-central part of the site.
- Two 55-gallon drums containing decontamination fluid are staged in the east-central part of the site.
- Five 55-gallon drums containing soil cuttings are staged in the eastern part of the site.

[1] Elevations (el.) are in feet and referenced to the North American Vertical Datum of 1988 (NAVD88).

- No material was imported or exported.

Material Import Summary				
Facility	**NYSDEC Approved Quantity**	**Imported**	**Today**	**Total**
Tilcon - Haverstraw Haverstraw, NY ASTM #3 Virgin Stone (1.5-Inch)	200 CY (280 tons)	**No. Loads**	0	**3**
		Quantity (tons)	0	**70**

Sampling

- Langan collected the following investigative-derived waste samples for laboratory analysis. The samples were submitted to Alpha Analytical Laboratories, a New York State Department of Health (NYSDOH) Environmental Laboratory Accredited Program (ELAP)-certified laboratory under standard chain-of-custody protocols. The following samples were submitted for Part 375/TCL volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), total Resource Conservation Recovery Act (RCRA) metals, RCRA characteristics, and toxicity characteristic leaching procedure (TCLP) metals:
    - DS01_GW_102323
    - DS01_SB_0-40
- Langan collected the following waste characterization sample from the stockpiled timber to relinquish to Clean Earth for laboratory analysis and future off-site disposal:
    - TMB02_102323
- Clean Earth collected the following waste characterization samples for laboratory analysis to assist with future off-site disposal of excavated soil/fill:
    - WC02 0-5'_COMP2
    - WC02(3)-GRAB2
    - WC05 0-5'_COMP2
    - WC05(5)-GRAB2
    - WC07 0-5'_COMP2
    - WC07(2)-GRAB2
    - WC01 0-5'_COMP2
    - WC06 0-5'_COMP3
    - WC06 0-5'_COMP2
    - WC04E 0-5' bgs
    - WC04E 5-10' bgs
    - WC01G 0-5' bgs
    - SB18 3' bgs
    - WC02-D-N1
    - WC02-D-S1
    - WC02-D-E1
    - WC02-D-W1
    - WC02-ACUA-COMP (0-3' BGS)
    - WC02-ACUA-GRAB (0-3' BGS)
    - SB18 5' bgs
    - WC02-D_N2
    - WC02-D_S2
    - WC02-D_E2
    - WC02-D_W2

Community Air Monitoring Plan (CAMP) Activities

- Langan implemented the CAMP at upwind and downwind locations to monitor volatile organic compounds (VOC) and particulate matter (PM10). 15-minute-average concentrations of VOCs and PM10 were not recorded above the action levels. No fugitive dust and odors associated with intrusive activities were observed migrating off site.

Particulate Monitoring (µg/m^3)		Organic Vapor Monitoring (ppm)	
Daily Background	3.2	Daily Background	0.00
Minimum 15-min Average	0.0	Minimum 15-min Average	0.00
Maximum 15-min Average	2.8	Maximum 15-min Average	0.01

µg/m^3= micrograms per cubic meter ppm= parts per million

Anticipated Activities

- Clean Earth will continue the additional waste characterization investigation.

SITE PHOTOGRAPHS:



Photo 1: Coastal advancing soil boring WC02E in the western part of the site (facing north).

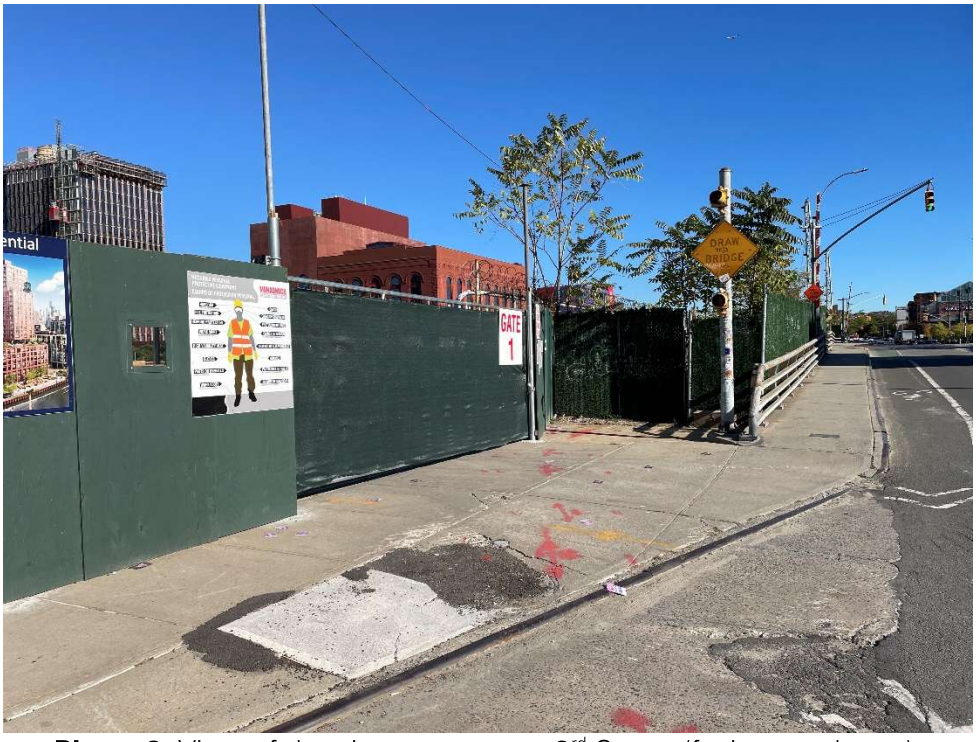
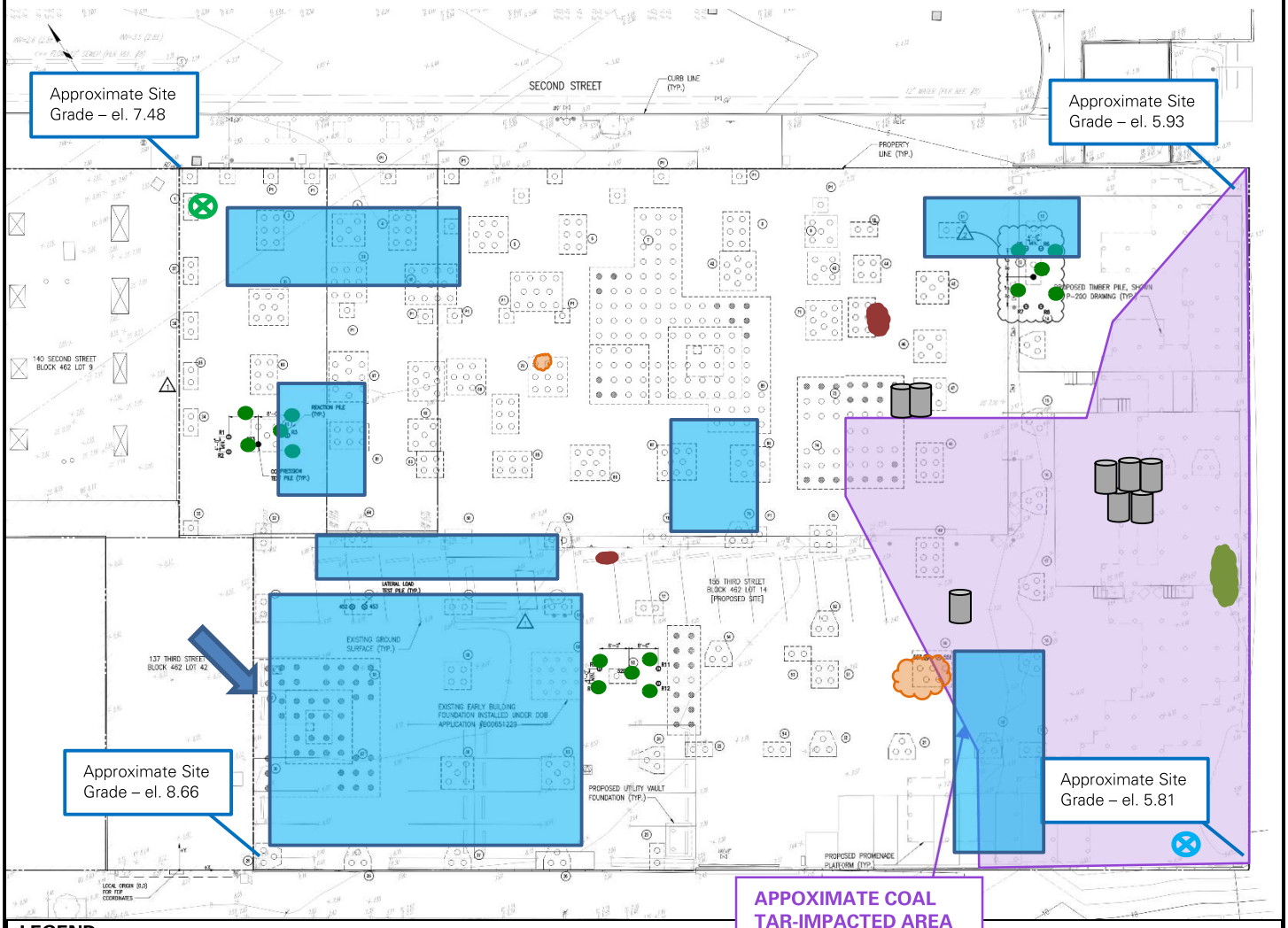


Photo 2: View of the site entrance on 3rd Street (facing southeast).

Site Map:



LEGEND

- Approximate Location of Displacement Pile Advanced Today
- Approximate Location of Displacement Pile Advanced Previously
- Approximate Location of Displacement Pile Load Testing
- Approximate Area of Soil Boring Installation (between el. 3.66± and 0.81±)
- Approximate location of upwind CAMP Station
- Approximate location of downwind CAMP Station
- Approximate location of Soil Stockpile
- Approximate location of C&D Debris Stockpile
- Approximate location of Timber Stockpile
- Approximate location of ASTM #3 Virgin Stone (1.5-Inch) Stockpile
- Prevailing Wind Direction
- Drum Location

Basemap is referenced from Drawing FO-099.01, titled "Deep Foundations Plans and Details" prepared by Dattner Architects D.P.C, dated 12/27/2022.

Elevations (el.) are in feet and referenced to the North American Vertical Datum of 1988 (NAVD88).

Drawing Shown Not to Scale

LANGAN	Air Monitoring Report	170390002 - 141 3rd Street	
		Report Period	
		From:	10/23/2023 06:00
		To:	10/23/2023 18:00
		PM10 Action Level:	150.0 µg/m³
		VOC Action Level:	5.00 ppm

Daily Environmental Summary	Windspeed (mph)	Prevailing wind direction
10/23/2023	0.6-4.7	WNW

Daily Monitoring Summary	PM10 (µg/m³)	Time	VOC (ppm)	Time
Min Contribution (15 min avg.) - 10/23/2023	0.0	07:23	0.00	07:23
Max Contribution (15 min avg.) - 10/23/2023	2.8	08:40	0.01	08:44

