SITE OBSERVATION REPORT – RAWP Implementation – Day 31

LANGAN

PROJECT No.:	170390001	**CLIENT:**		**DATE:**	Monday, 16 December 2024
PROJECT:	141 3rd Street		Third Street Owner LLC and 155 Third St., LLC	**WEATHER:**	Rain 45 - 46 ^{0}F Wind: N @ 6.2 – 9.0 mph
LOCATION:	Brooklyn, New York			**TIME:**	7:00 a.m. – 2:30 p.m.
BCP SITE ID:	C224336			**MONITOR:**	JN Stanley

EQUIPMENT: Hyundai HX520L PC 400 Komatsu Liebherr LRB 355-450	**PRESENT AT SITE:** **Langan**: JN Stanley **Monadnock Construction (Construction Management)**: John Henry **Innovative Environmental Technologies (IET):** Michael Scalzi

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was onsite to document implementation of the New York State Department of Environmental Conservation (NYSDEC)-approved Remedial Action Work Plan (RAWP) dated 12 December 2024, and In-Situ Geochemical Stabilization (ISGS) Work Plan dated 9 September 2024.

Site Activities

- IET began equipment mobilization for ISGS pilot test implementation.

Sampling

- No samples were collected.

Community Air Monitoring Plan (CAMP) Activities

- Community air monitoring was not implemented due to a lack of ground-intrusive work activities and inclement weather. Fugitive dust or odors were not observed migrating from the site.

Material Tracking

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

Material Import Summary				
Facility	**NYSDEC Approved Quantity**	**Imported**	**Today**	**Total**
Tilcon - Haverstraw Haverstraw, NY ASTM #3 Virgin Stone (1.5-Inch)	400 CY (560 tons)	**No. Loads**	0	**4**
		Quantity (tons)	0	**89.95**
Impact Materials Jersey City (IMJC) Jersey City, NJ 0.75-inch Stone	2,000 CY (2,800 tons)	**No. Loads**	0	**0**
		Quantity (tons)	0	**0**
IMJC Jersey City, NJ 1.5-inch Stone	400 CY (560 tons)	**No. Loads**	0	**2**
		Quantity (tons)	0	**49.65**

Drums

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

Anticipated Activities

- IET will perform the ISGS pilot test study.
- Aquifer Drilling & Testing (ADT) will advance cores through the in-situ stabilization/solidification (ISS) monolith.

SITE PHOTOGRAPHS:

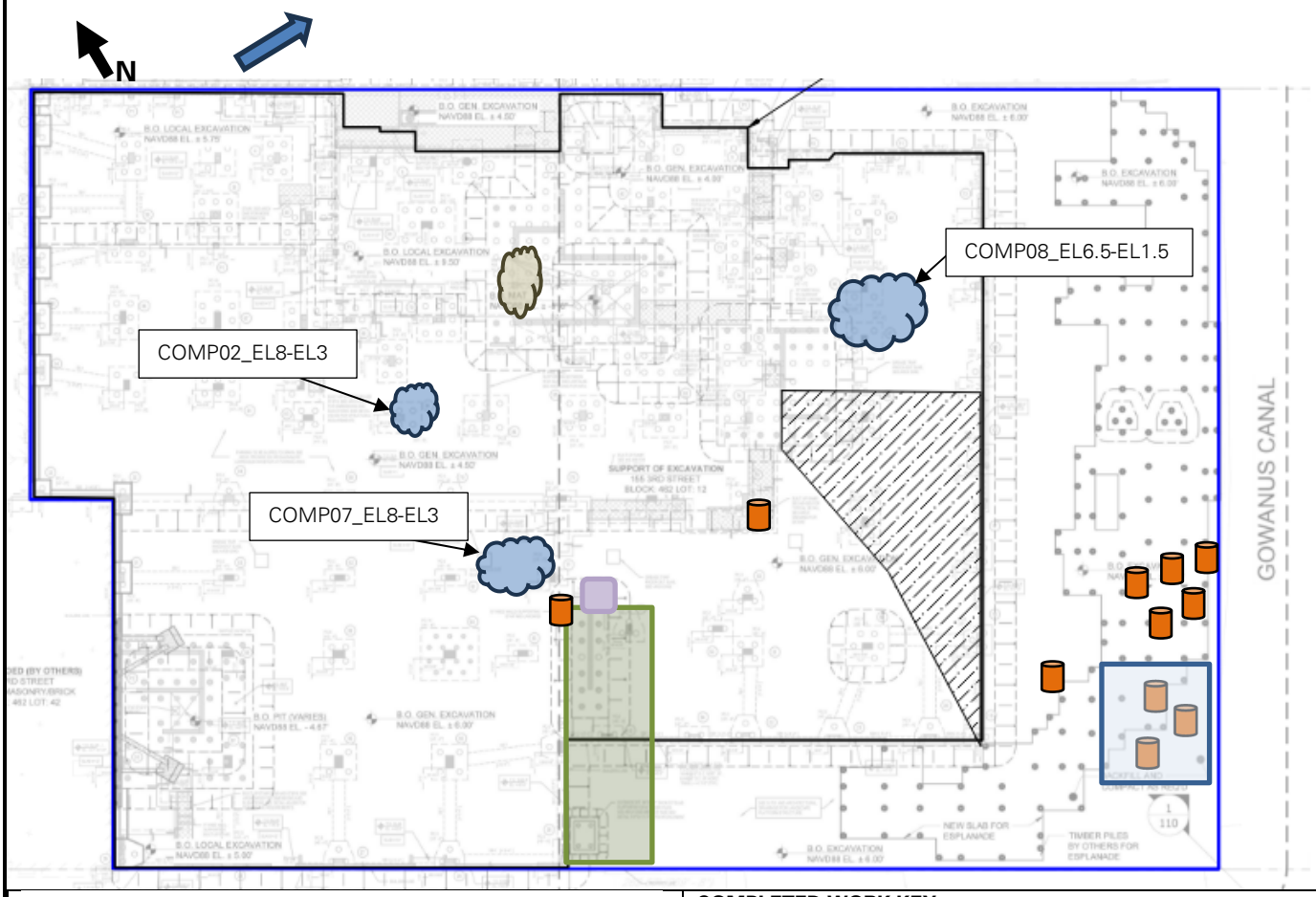


Photo 1: IET mobilizing their equipment trailer for ISGS pilot test implementation (facing northeast).



Photo 2: General view of the site (facing west).

FIGURE 1 - SITE MAP:



LEGEND:

- APPROXIMATE SITE BOUNDARY
- PROPOSED BUILDING FOOTPRINT
- APPROXIMATE PROPOSED EXTENT OF ISS AREA TO BE EXCAVATED TO 4 FEET BGS (EL. 3.5± FEET NAVD88)

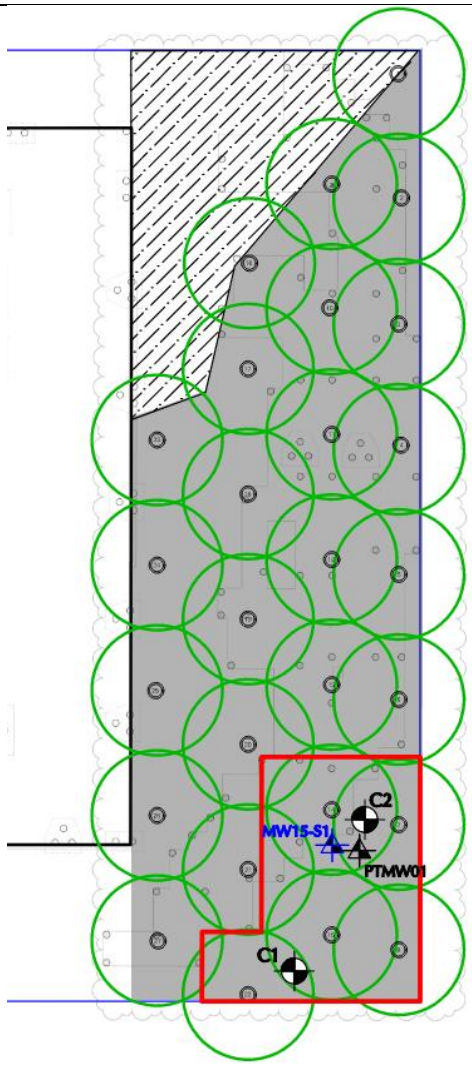
COMPLETED WORK KEY

- Approximate work area
- Approximate location of upwind CAMP station
- Approximate location of downwind CAMP station
- Approximate location of drum
- Approximate wind direction
- Stockpiled soil/fill
- Stockpiled C&D debris
- Stockpiled imported stone
- Temporary stabilized construction entrance
- Truck wash catch basin

Base map includes Figure 5 – Pre-ISS Excavation Plan from the NYSDEC-approved RDD for ISS, prepared by Langan Engineering, dated 4/5/2024

FIGURE 2 - ISGS PROGRESS MAP

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LEGEND:

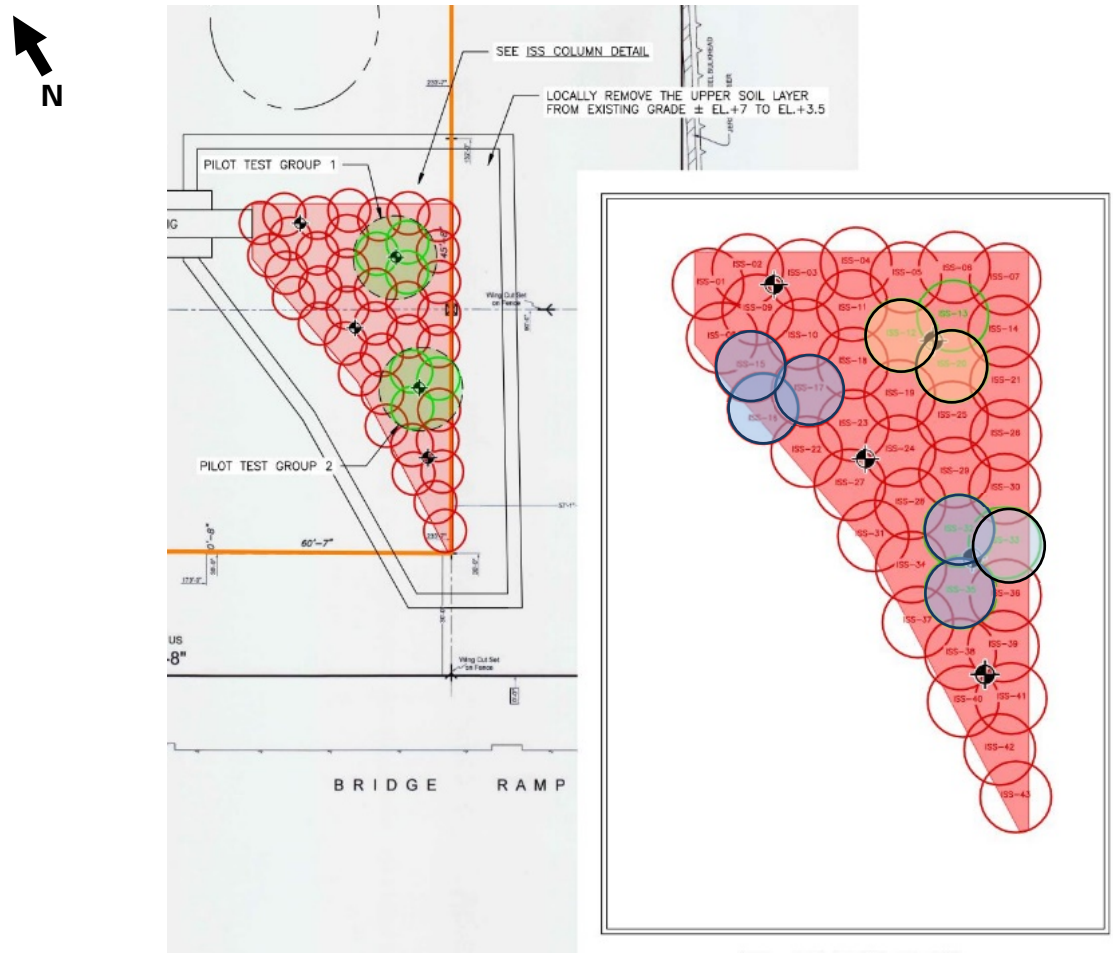
- APPROXIMATE SITE BOUNDARY
- PROPOSED BUILDING FOOTPRINT
- APPROXIMATE PROPOSED EXTENT OF ISGS AREA BETWEEN EL. -19± TO EL. -23±
- APPROXIMATE PROPOSED EXTENT OF ISGS SUPPORT/LAYDOWN AREA
- APPROXIMATE PROPOSED TEMPORARY DIRECT-PUSH INJECTION POINT LOCATION
- APPROXIMATE ROI (13-FOOT RADIUS, 25-FOOT SPACING)
- C1 — APPROXIMATE PROPOSED PILOT TEST QA/QC CORE LOCATION
- APPROXIMATE ISGS PILOT TEST AREA
- MW15-S1 — EXISTING MONITORING WELL LOCATION
- PTWM01 — PROPOSED MONITORING WELL LOCATION

COMPLETED WORK KEY

- ISGS injection point completed today
- ISGS injection point previously completed

Base map includes Figure 2 – Project Implementation Plan In-Situ Stabilization/Solidification, prepared by Roux Environmental and Geology, D.P.C, dated October 2024

FIGURE 3 - ISS PROGRESS MAP:



LEGEND

- FOOTPRINT OF FORMER BUILDING
- PROPOSED ISS PRODUCTION COLUMNS 10.5 FOOT DIAMETER
- PROPOSED ISS PILOT TEST COLUMNS 10.5 FOOT DIAMETER
- PROPOSED QA/QC PRODUCTION CORE LOCATION
- PROPOSED EXTENT OF ISS AREA FROM EL. −16 TO −25±"

COMPLETED WORK KEY

- ISS cell mixed today
- ISS cell previously mixed
- ISS cell to be remixed

Base map includes Figure 2 – Project Implementation Plan In-Situ Stabilization/Solidification, prepared by Roux Environmental and Geology, D.P.C, dated October 2024

TABLE 1 - ISS PROGRESS TABLE:

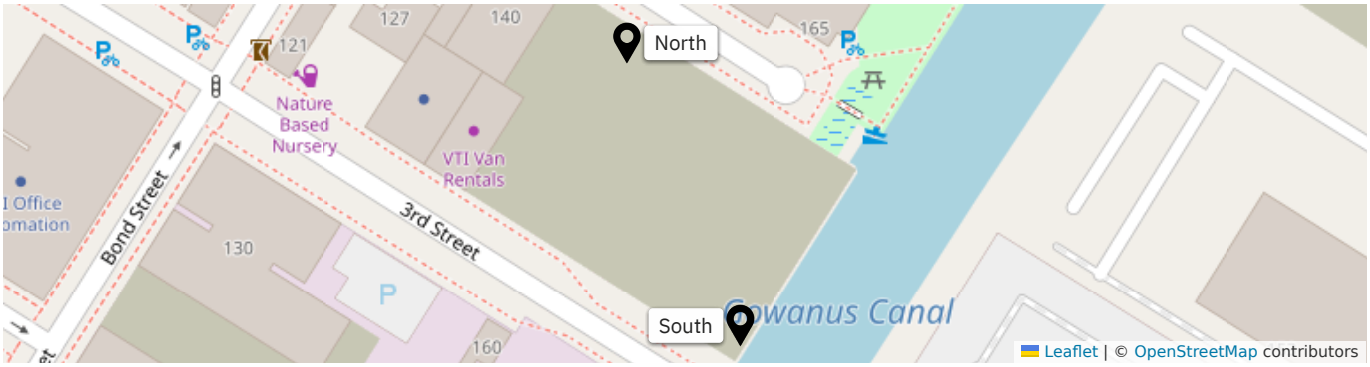
ISS Column ID	Coordinates (N, E)	Interval (el)	Mixing Time Per Interval (min)	Reagent Additional Per Interval (gal/min)	Injection Pressure (psi)	Injection Rate (psi/min)	Rotational Speed (RPM)	Advance Rate (ft/min)	No. of Passes
ISS-20	98.87, 221.23	3.5± to -13.5±	9.23	50	50	6.5	30	3.75	1
		-13.5± to -26.5±	9.23	50	50	6.5	30	3.75	1
ISS-12	103.418, 213.788	3.5± to -11.5±	15	50	N/A	N/A	15	1.4	1
		-11.5± to -16.5±	10	50	N/A	N/A	15	0.4	1
		-16.5± to -21.5±	10	50	N/A	N/A	15	0.4	N/A
ISS-16	92.59, 193.29	1.89± to -26.5±	270	50	N/A	N/A	17	0.10	1
ISS-17	95.14, 199.81	5.5± to -26.5±	170	50	N/A	N/A	18	0.19	1
ISS-15	98.75, 191.97	5.5± to -26.5±	160	50	N/A	N/A	16	0.28	1
ISS-35	65.47, 222.59	4.41± to -26.5±	335	50	N/A	N/A	16	0.17	2
ISS-32	74.47, 222.33	5.5± to -26.5±	223	50	N/A	N/A	16	0.36	2
ISS-33	74.47, 229.01	5.5± to -26.5±	127	50	N/A	N/A	16	0.25	2

1. Coordinates were measured in northing and eastings from the project datum.

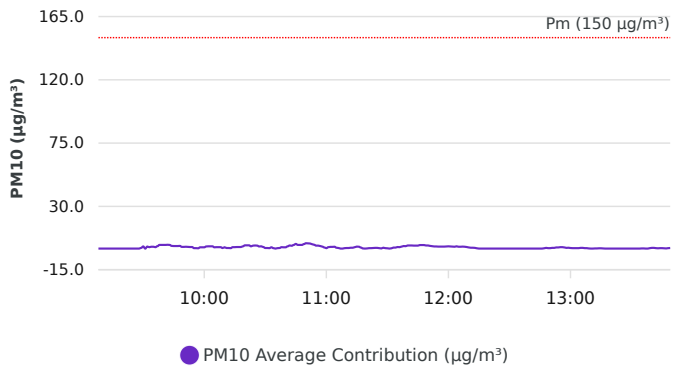
LANGAN	Air Monitoring Report	170390002 - 155 3rd St Brooklyn	
		Report Period	
		From:	12/16/2024 06:00
		To:	12/16/2024 18:00
		PM10 Action Level:	150 µg/m³
		VOC Action Level:	5 ppm

Daily Environmental Summary	Temp (°F)	Relative Humidity (%)	Barometer (inHg)	Windspeed (mph)	Prevailing wind direction
12/16/2024	-	-	-	0.7-4.4	ENE

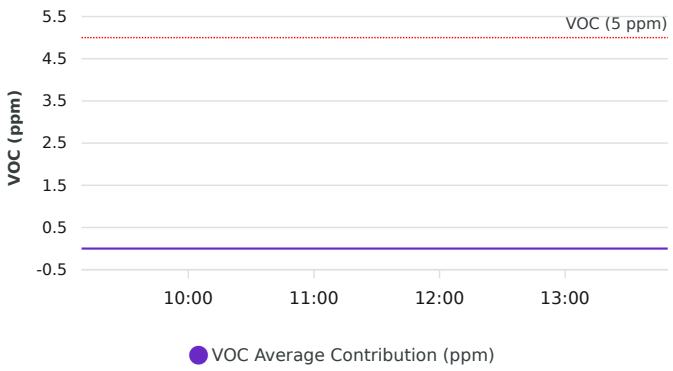
Daily Monitoring Summary	PM10 (µg/m³)	Time	VOC (ppm)	Time
Min Contribution (15 min avg.) - 12/16/2024	0.0	09:08	0.00	09:09
Max Contribution (15 min avg.) - 12/16/2024	3.8	10:50	0.00	09:09



PM10 Average Contribution (µg/m³)



VOC Average Contribution (ppm)



Contribution wind rose (mph)

