SITE OBSERVATION REPORT – RAWP Implementation – Day 37

LANGAN

PROJECT No.:	170390001	**CLIENT:**		**DATE:**	Thursday, 9 January 2025
PROJECT:	141 3rd Street			**WEATHER:**	Sunny, 20 - 25 ^{0}F Wind: WSW @ 9 – 13 mph
LOCATION:	Brooklyn, New York		Third Street Owner LLC and 155 Third St., LLC	**TIME:**	8:00 a.m. – 1:30 p.m.
BCP SITE ID:	C224336			**MONITOR:**	Gabriella DeGennaro, Pepper Greenley

EQUIPMENT:	**PRESENT AT SITE:**
Interface Probe MiniRae 3000 Peristaltic Pump	**Langan**: Gabriella DeGennaro, Pepper Greenley

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 Remedial Design Document (RDD) for In-Situ Stabilization/Solidification (ISS) dated 5 April 2024.

Site Activities

- Langan used an interface probe to screen for the presence of dense non-aqueous phase liquid (DNAPL) in monitoring well PTMW01 and photoionization detector (PID) to screen the monitoring well headspace. The headspace of the monitoring well was recorded at 91.5 parts per million (ppm) and about 6.3 feet of DNAPL was measured within the well sump.
    - Langan used a peristaltic pump to remove all DNAPL from PTMW01. About 0.25 gallons of DNAPL was recovered and drummed pending future off-site disposal.
    - DNAPL recharge was not identified during this period.

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 performed throughout the workday. 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 and DNAPL is staged in the southern part of the site.
- One 55-gallon drum containing truck wash water is staged in the central part of the site.
- One 55-gallon drum containing purged groundwater is staged in the southern part of the site.

Anticipated Activities

- Langan will continue RAWP implementation.

SITE PHOTOGRAPHS:

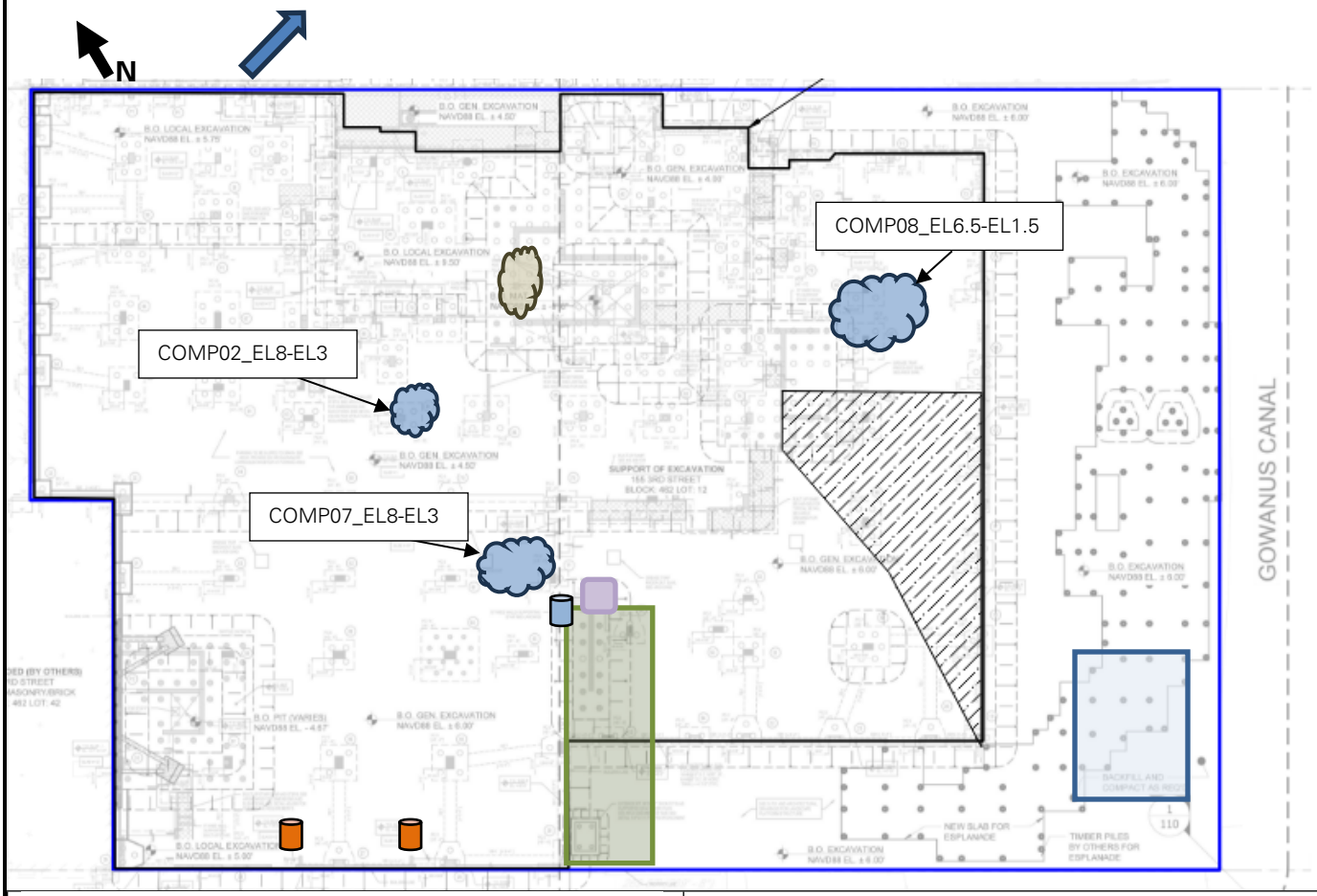


Photo 1: Langan gauging DNAPL thickness in PTMW01.



Photo 2: Recovered DNAPL from PTMW01.

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)

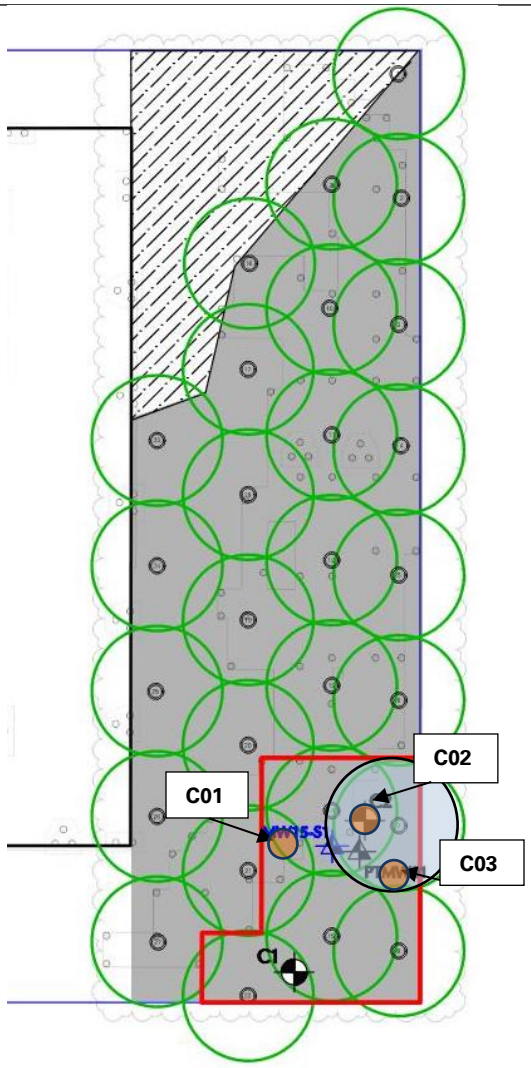
COMPLETED WORK KEY

- Approximate work area
- Approximate location of upwind CAMP station
- Approximate location of downwind CAMP station
- Approximate location of drum
- Approximate location of truck wash 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:

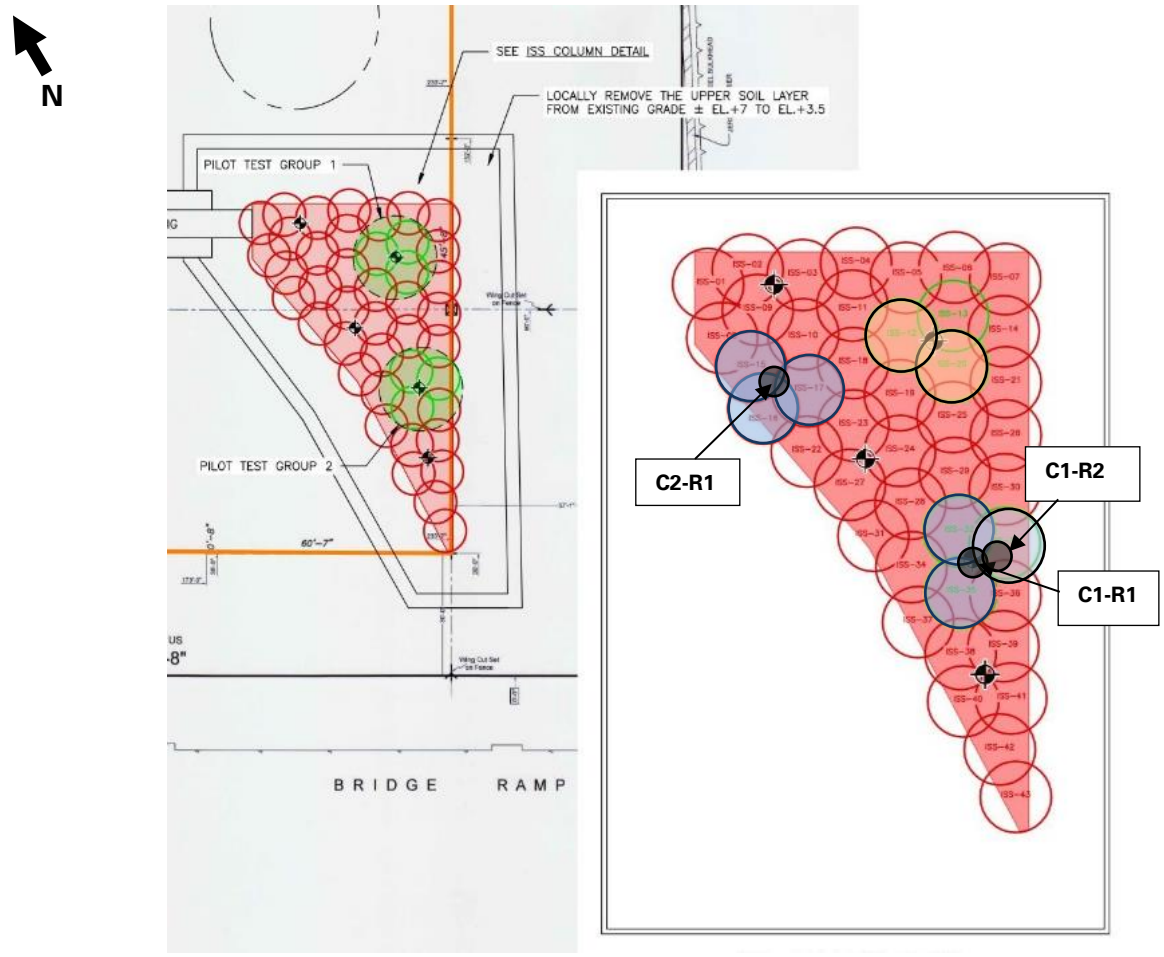
- APPROXIMATE SITE BOUNDARY
- PROPOSED BUILDING FOOTPRINT
- APPROXIMATE PROPOSED EXTENT OF ISGS AREA BETWEEN EL. -19± TO EL. -23±
- APPROXIMATE PROPOSED EXTENT OF ISGS SUPPORT/LAYDOWN AREA
- APPROXIMATE PROPOSED TEMPORARY DIRECT-PUSH INJECTION POINT LOCATION
- APPROXIMATE ROI (13-FOOT RADIUS, 25-FOOT 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
- Core location completed today
- Core location 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
- Core location advanced

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.