

DAILY STATUS REPORT

Prepared By: Antonio Cardenas

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	X
TEMP.	< 32		32-50		50-70	X	70-85	X	>85	

NYSDEC BCP Site No:	C224219	Date:	9/20/2024
Project Name:	450 Union Street, Brooklyn, NY		

Consultant: Vektor Consultants – Antonio Cardenas Visitors: WSP – Aaron Schmidt	Personnel On-Site: Geo-Solutions Inc.- Subcontractor
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Work Activities Performed:

- GSI introduced a 9% total cement addition using slag to Portland ratio of 2:1 by weight of soil reagent mix in two columns: E9 and E10. Three mixing passes were made for each column between working grade and 40 feet below grade.
- GSI excavated spoils from the ISS work area and staged material within the western portion of the Site on top of poly-sheeting. The stockpile was covered at the end of the day.
- GSI applied Biosolve and ATMOS AC-645 foam deodorizer onto the drilling locations, as needed when odors were observed.
- Drilling was suspended after pump for the foam dispenser needed repairs.
- Batch plant material deliveries and general housekeeping measures continued, as needed.

Community Air Monitoring Program (CAMP)

An Upwind and Downwind CAMP stations were placed within the perimeters of the Site during drilling activities. The Upwind CAMP station was in the northwest portion of the Site and the Downwind CAMP station was in the southeast portion of the Site as the wind was consistently coming from the north.

Background Levels (Initial Readings at Start of Day):

PID: 0.0 ppm Dust: 0.0228 mg/m³

Highest Levels:

PID: 0.0 ppm Dust: 0.072 mg/m³

- Upwind CAMP was implemented during ISS activities. CAMP equipment consisted of a DustTrack II Model 8530; S/N: 8530210705, AND MiniRAE 3000, Model PGM-7320 photoionization detector (PID); S/N: 592-601281.
- Downwind CAMP was implemented during ISS activities. CAMP equipment consisted of a DustTrack II Model 8530; S/N: 8530221304, AND MiniRAE 3000, Model PGM-7320 photoionization detector (PID); S/N:592-926055.
- No VOC or dust concentrations were detected in exceedance of the daily short-term exposure limit (STEL) at the work area CAMP stations.

Problems Encountered

- None

Planned Activities for the Next Day

Continuation of full-scale ISS operations (NYSDEC approval of the RSO Work Plan on 9/17/2024). Continued decommissioning one remaining recovery well (RW-2) within the work area via NYSDEC's CP-43 Well Decommissioning Policy.

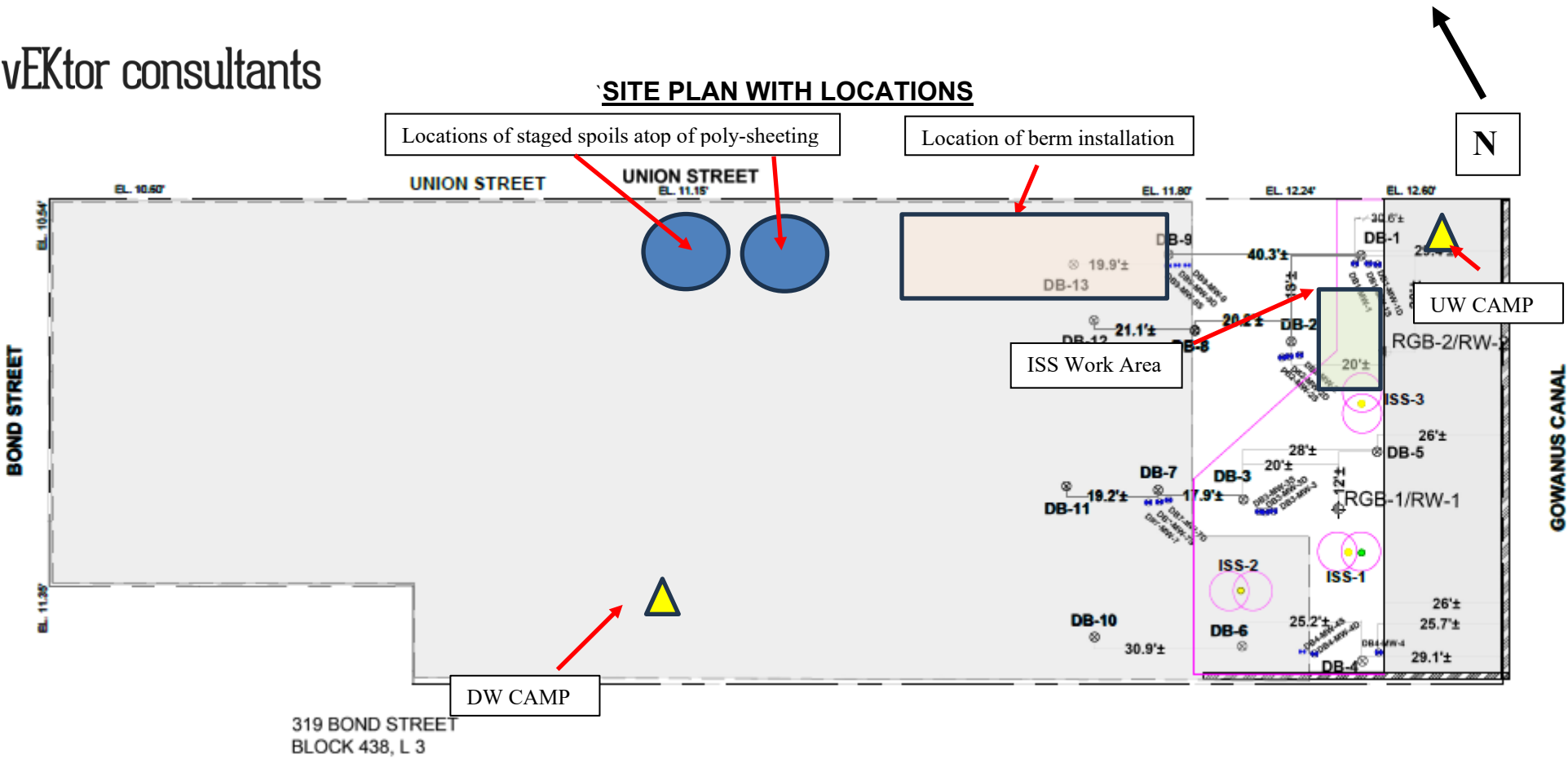


Photo Log

Photo 1:
View of GSI introducing 9% mixture
at column/cell E10, facing west.



Photo 2:
View of GSI introducing 9% mixture
at column/cell E9 with application of
foam to mitigate odors, facing
northwest.



Photo 3:
General overview of the site, facing southwest.



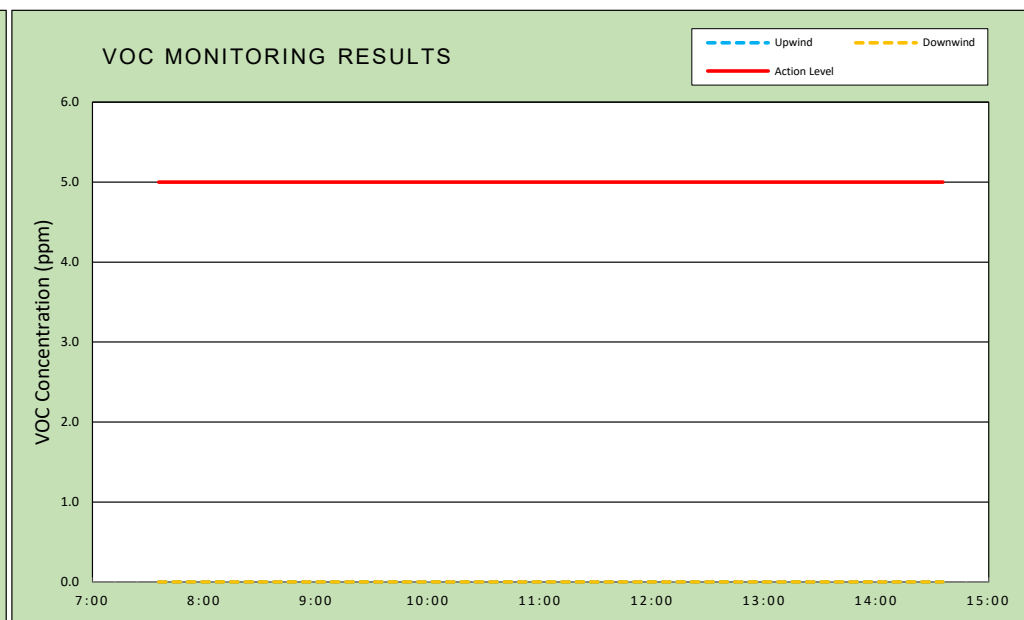
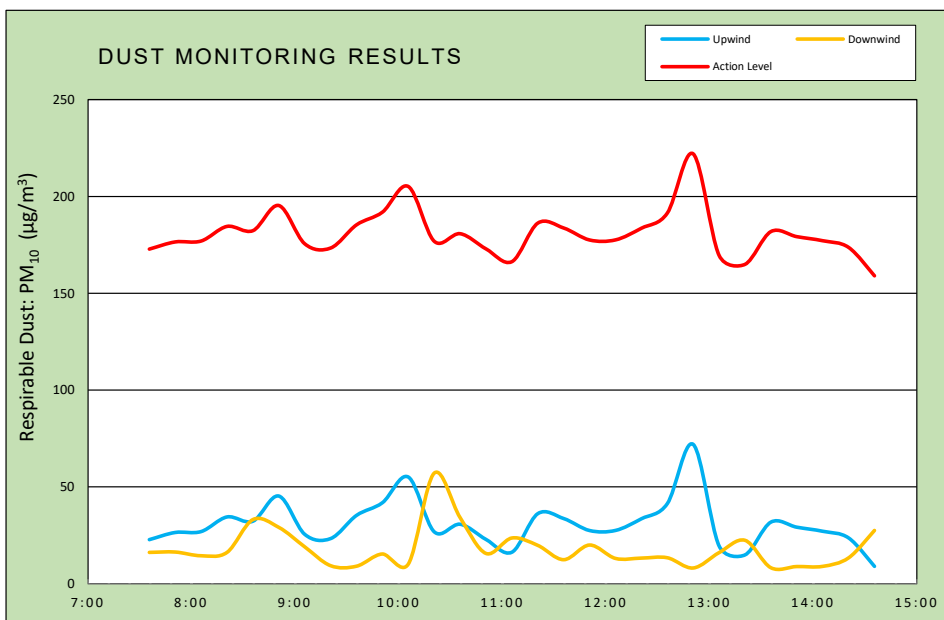
Photo 4:
GSI attempting to repair pump for foam dispenser, facing northwest.



vEktor consultants	DAILY AIR MONITORING REPORT 450 Union Street Brooklyn, New York					09/20/2024	
						Rev. No. 0	Page 1 of 2
						Project Number:	
						Dust Action Level	150 $\mu\text{g}/\text{m}^3$
37 W. 37th St, 6th Floor - New York, NY						VOC Action Level	5 ppm

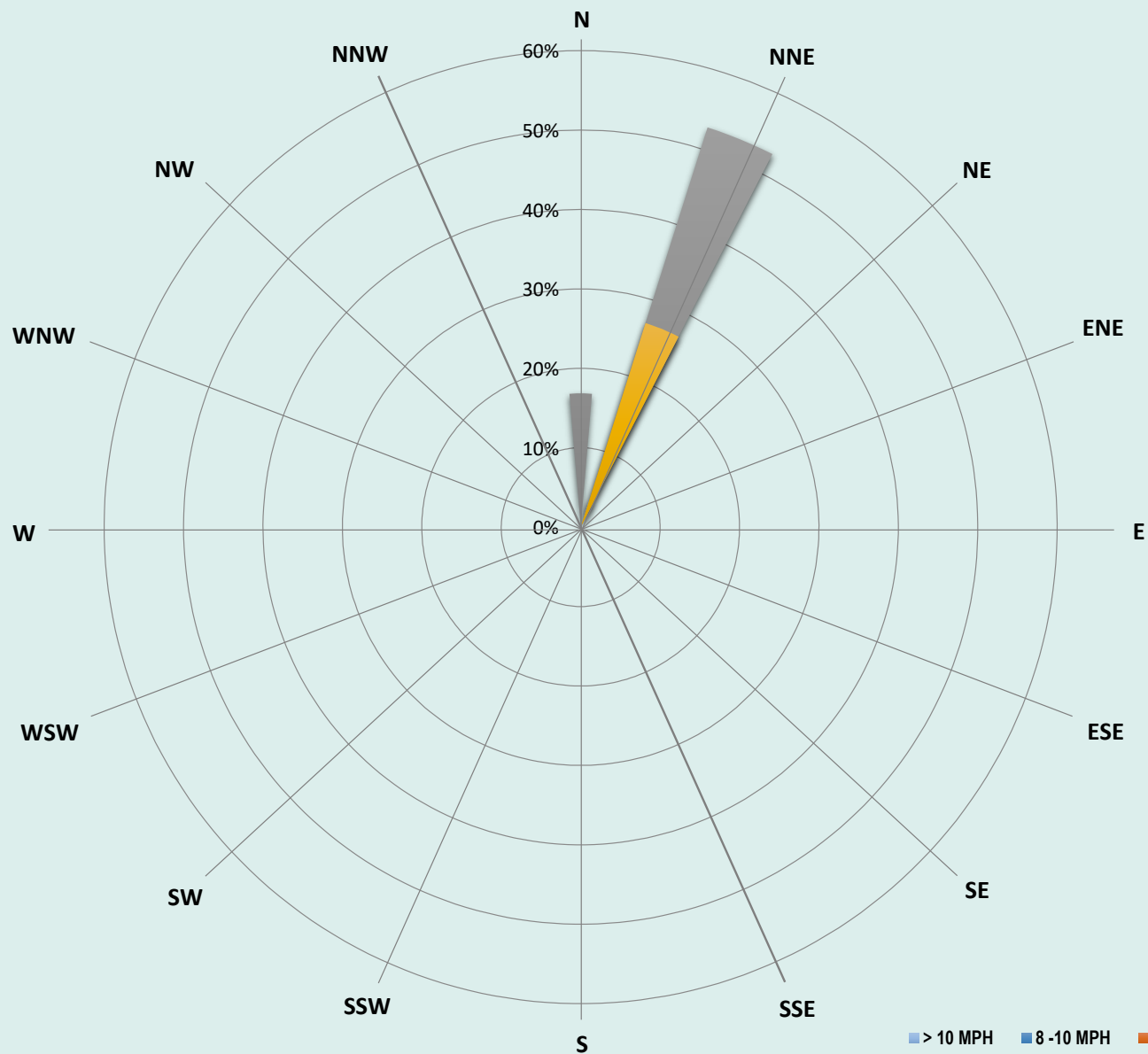
Weather Data Range for Work Day		Wind Direction	NNE	Relative Humidity (%)	52.0 - 79.0	Daily Rain Total (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temperature (°F)	68.0 - 80.0	Wind Speed (MPH)	3.0 - 10.8	Barometer (inHg)	29.90 - 30.00	Avg. Dew Point Temp (°F)	62.9	

Station Location	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15-Min Dust Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max Dust Reading	Daily Avg. VOC Concentration (ppm)	Max 15-Min VOC Concentration (ppm)	Time of Max VOC Reading
Upwind	30.5	72.0	12:51	0.0	0.0	7:36
Downwind	18.4	57.1	10:21	0.0	0.0	7:36



Air Monitoring Notes:

Weather Notes:



vEKtor - 450 Union St
Air Monitoring
09/20/24
Wind Speed & Direction
Daily Readings

Friday, September 20, 2024				
Number of Instances Where Downwind Particulates				0
Number of Comparable Data Points =				29
Start Time:				7:36
End Time:				14:36
PARTICULATE DATA				
Upwind		Downwind		Exceeds Particulate Alarm Limit
Time	15-Min Avg Concentration (ug/m ³)	Time	15-Min Avg Concentration (ug/m ³)	
7:36	22.8	7:36	16.2	-
7:51	26.5	7:51	16.4	-
8:06	27.0	8:06	14.5	-
8:21	34.5	8:21	16.2	-
8:36	32.3	8:36	33.2	-
8:51	45.3	8:51	29.1	-
9:06	25.6	9:06	19.1	-
9:21	23.4	9:21	9.4	-
9:36	35.3	9:36	9.1	-
9:51	41.9	9:51	15.4	-
10:06	55.1	10:06	10.2	-
10:21	26.9	10:21	57.1	-
10:36	30.8	10:36	34.2	-
10:51	22.9	10:51	15.7	-
11:06	16.3	11:06	23.7	-
11:21	36.2	11:21	19.8	-
11:36	33.7	11:36	12.5	-
11:51	27.5	11:51	20.0	-
12:06	27.6	12:06	13.1	-
12:21	33.6	12:21	13.3	-
12:36	41.4	12:36	13.5	-
12:51	72.0	12:51	8.2	-
13:06	19.6	13:06	16.1	-
13:21	14.9	13:21	22.5	-
13:36	31.8	13:36	8.3	-
13:51	29.2	13:51	8.9	-
14:06	27.1	14:06	9.0	-
14:21	23.7	14:21	13.4	-
14:36	9.0	14:36	27.5	-

Friday, September 20, 2024				
Number of Instances Where Downwind VOCs Exceeds				0
Number of Comparable Data Points =				0
Start Time:				7:36
End Time:				14:36
PID DATA				
Upwind		Downwind		Exceeds VOC Alarm Limit
Time	15-Min Avg Concentration (ppm)	Time	15-Min Avg Concentration (ppm)	
7:36	0.0	7:36	0.0	-
7:51	0.0	7:51	0.0	-
8:06	0.0	8:06	0.0	-
8:21	0.0	8:21	0.0	-
8:36	0.0	8:36	0.0	-
8:51	0.0	8:51	0.0	-
9:06	0.0	9:06	0.0	-
9:21	0.0	9:21	0.0	-
9:36	0.0	9:36	0.0	-
9:51	0.0	9:51	0.0	-
10:06	0.0	10:06	0.0	-
10:21	0.0	10:21	0.0	-
10:36	0.0	10:36	0.0	-
10:51	0.0	10:51	0.0	-
11:06	0.0	11:06	0.0	-
11:21	0.0	11:21	0.0	-
11:36	0.0	11:36	0.0	-
11:51	0.0	11:51	0.0	-
12:06	0.0	12:06	0.0	-
12:21	0.0	12:21	0.0	-
12:36	0.0	12:36	0.0	-
12:51	0.0	12:51	0.0	-
13:06	0.0	13:06	0.0	-
13:21	0.0	13:21	0.0	-
13:36	0.0	13:36	0.0	-
13:51	0.0	13:51	0.0	-
14:06	0.0	14:06	0.0	-
14:21	0.0	14:21	0.0	-
14:36	0.0	14:36	0.0	-

Project:	450 Union Remediation	Project No.:	24-071	Date:	09/20/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Friday
Owner:	2201 Union LLC	Superintendent:	Rick McKay	Days on Site:	33
Manager:	Trae Deri	Engineer:	Srujan Prasad	Shift Times:	7:00-17:00

Weather:			
Low:	63	Cloud Cover:	Sunny
High:	81	Precipitation:	0"
		Wind:	5-10MPH
		Direction:	N
Description of Work Activities:			
<ul style="list-style-type: none"> - 0700 to 0715, GSI held a tailgate safety meeting and discussed the day's planned activities with site personnel. - 0715 to 0730, Prepped batch plant for production of grout and staked columns. - 0900 to 1000, GSI received a delivery of dyed diesel fuel and 8' Auger. - 0730 to 1500, GSI received a 2 loads of slag and 1 load of PC. - 0730 to 0900, GSI moved the swell materials towards west of the jobsite casting poly-lined using Kobelco 300 and 210 excavators. - 0850, GSI started drilling column E10 and completed to depth at 0954, Following the completion of the column, GSI collected a sample at 38 ftbgs and casted the material into cylinders. - 1032, GSI started drilling columns E9 and completed to depth at 1140. - 1145, GSI paused ISS mixing to address the mechanical issue with the foamer. - 1200 to 1500, GSI attempted to fix the mehanical issue with the foamer. - 1400 to 1430, GSI washed out the lines and Kobelco 210 excavator moved crane mats and managed ISS spoils. - 1500 to 1600, GSI moved the swell materials towards west of the jobsite casting poly-lined using Kobelco 300 excavator. - 1600, All GSI personnel offsite. 			
Conversation with Client/Inspector:			
Production Delays:			
GSI paused ISS mixing to address the mechanical issue with the foamer.			
Safety Topics:			
Discussed: Communication Tools on a Jobsite Safety Talk.			

Rick McKay
 Foreman/Superintendent

09/20/24
 Date

Project:	450 Union Remediation			Project No.:	24-071		Date:	09/20/24	
Client:	2201 Union LLC			Location:	Brooklyn, NY		Day of Week:	Friday	
Owner:	2201 Union LLC			Superintendent:	Rick McKay		Days on Site:	33	
Manager:	Trae Deri			Engineer:	Srujan Prasad		Shift Times:	7:00-17:00	
Production:					Completion:				
Today: 211.26 CY 2 Columns					39% Columns				
To-Date: 1,751.03 CY 17 Columns					39.80% CY				
Materials Received:									
Material		Unit	Today		Total		Notes		
Slag- Grade 120		Ton	31		228				
Portland Cement - Type 1L		Ton	21		116				
Disposal Trucks		N/A	0		18				
Hours	Equipment		Task		Hours	Employees On Site		Trade	
8.0	Offroad Forklift		Material Handling			Trae Deri		PM	
8.0	185 Air Compressor		ISS Mixing		9.0	Rick McKay		SUPT	
8.0	Conex box(1)		Storage		9.0	Srujan Prasad		ENG	
8.0	300kw Generator		Batch Plant		9.0	Eric Shannon		DRILL	
8.0	Lo-pro silo(2)		Cement Storage		9.0	Miguel Maldonado		LAB	
8.0	Flash mixers (2)		Batch Plant		8.0	Daniel Santos		BPO	
8.0	Moyno pump(2)		Batch Plant		8.0	Peter Liota		OP	
8.0	Delmag Hydraulic Rig		ISS Mixing		5.0	Steven Reda		LAB	
8.0	Manlift(1)		Maintenance		8.0	Louis Passannante		OP	
8.0	Kobelco 210 Excavaor		ISS Mixing		8.0	Christhopher Ramdial		OILER	
8.0	250kw Generator		Batch Plant						
8.0	Kobelco 300 Excavator								
96	TOTAL DAY HOURS				73	TOTAL DAY HOURS			

LEGEND:

SUPT- Superintendent, **PM**- Project Manager, **ENG** - Engineer, **SSHC** - Health & Safety Coordinator, **LAB** - Laborer, **OP** - Operator,
BPO - Batch plant Operator, **OILER** - Oiler, **DRILLER** - Rig Opearior

Rick McKay

Foreman/Superintendent

09/20/24

Date

Project:	450 Union Remediation	Project No:	24-071	Date:	09/20/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Friday
Owner:	2201 Union LLC	Superintendent	Rick Mckay	Days on Site:	33
Manager:	Trae Deri	Engineer:	Srujan Prasad	Shift Times:	7:00-17:00

IN-SITU SOIL STABILIZATION - AUGER MIXING
COLUMN LOG

Operator: 83 N
 Drill Rig: Delmag RH38 Hydraulic Rig

Date	Column ID	Start Time	Stop Time	AS-BUILT			Mixing Passes	Col. Dia. FT	# of Overlaps	Overlap Area FT ²	Effective Area FT ²	Effective Volume CY	Grout Required GAL	Grout Used GAL	Target Reagent Mix %	Calculated Addition Rates				
				Top of Col ELEV	Bottom of Col ELEV	Depth FT										Slag Addition		Portland Cement Addition		Water: Cement Ratio
																LBS	%	LBS	%	
9/20/2024	E10	8:50	9:54	12.0	-28.1	40.1	3	10	1	10	68.3	101.37	4,528	5,452	9.0%	22,739	7.2%	11,370	3.6%	1.0
9/20/2024	E9	10:32	11:40	12.0	-28.1	40.1	3	10	1	4.5	74.1	109.89	4,909	5,327	9.0%	22,218	6.5%	11,109	3.3%	1.0
												Production Today	211.26 CY			Material Used Today	22.5	Tons	11.2	Tons
												Production To-Date	1751.03 CY			Material Used To-Date	22.5	Tons	11.2	Tons

Comments:
 - GSI sampled column E10 at a depth of 38 feet.

Discussed:

Rick Mckay
 Foreman/Superintendent

SIGNED: _____
 Client QC Manager

Project:	450 Union Remediation	Project No.:	24-071	Date:	09/20/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Friday
Owner:	2201 Union LLC	Superintendent:	Rick Mckay	Days on Site:	33
Manager:	Trae Deri	Engineer:	Srujan Prasad	Shift Times:	7:00-17:00

IN-SITU SOIL STABILIZATION - AUGER MIXING BATCH PLANT QUALITY CONTROL TESTING

83

Grout Testing

Date	Time	Water: Cement Ratio	Mud Balance S.G.
9/20/2024	9:35	1.0:1	1.51
9/20/2024	11:15	1.0:1	1.51
S			

Calibration Log

Device	Date	Calibration (Y/N)	NOTES
Mud Balance	9/18/2024	Y	
Scales	9/18/2024	Y	Verified scales accuracy within 1%
Comments:			

Rick Mckay

Foreman/Superintendent

Client QC Manager

Project: 450 Union Remediation
Client: 2201 Union LLC
Owner: 2201 Union LLC
Manager: Trae Deri

Project No.: 24-071
Location: Brooklyn, NY
Superintendent: Rick McKay
Engineer: Srujan Prasad

9/19/2024 9/20/2024
Day of Week: Friday
2/1/1900 33
Shift Times: 7:00-17:00

IN-SITU SOIL STABILIZATION - AUGER MIXING SAMPLE TESTING RESULTS

83

N

Project Specifications:

Perm: $\leq 1 \times 10^{-6}$
UCS: > 50 psi

Lab Results

Date	Time	Sample ID	Depth (bgs) (ft.)	Number of cylinders casted		UCS	Permeability	UCS	Permeability	
				3x6s	2x4s	7 Day	7 Day	14 Day	14 Day	
						(psi)	(cm/s)	(psi)	(cm/s)	
8/19/24	11:42 AM	E6	18	8	8	243.3	4.4E-09	379.9		
8/19/24	2:10 PM	E7	22	8	8	203.3	4.5E-09	388.6		
8/23/24	11:10 AM	B3	25	8	8	95.4	4.9E-08	82.6	2.2E-08	
8/23/24	12:56 PM	B4	35	8	8	206.3	1.6E-08	209.5	3.1E-08	
9/18/24	8:34 AM	A1	30	6	6					
9/19/24	10:24 AM	A5	28	6	6					
9/19/24	2:48 PM	B7	33	6	6					
9/20/24	10:10 AM	E10	38	6	6					

Comments:

Rick McKay

Foreman/Superintendent

Client QC Manager



IN-SITU SOIL STABILIZATION - AUGER MIXING PC DELIVERY INVOICE TRACKING

[illegible]

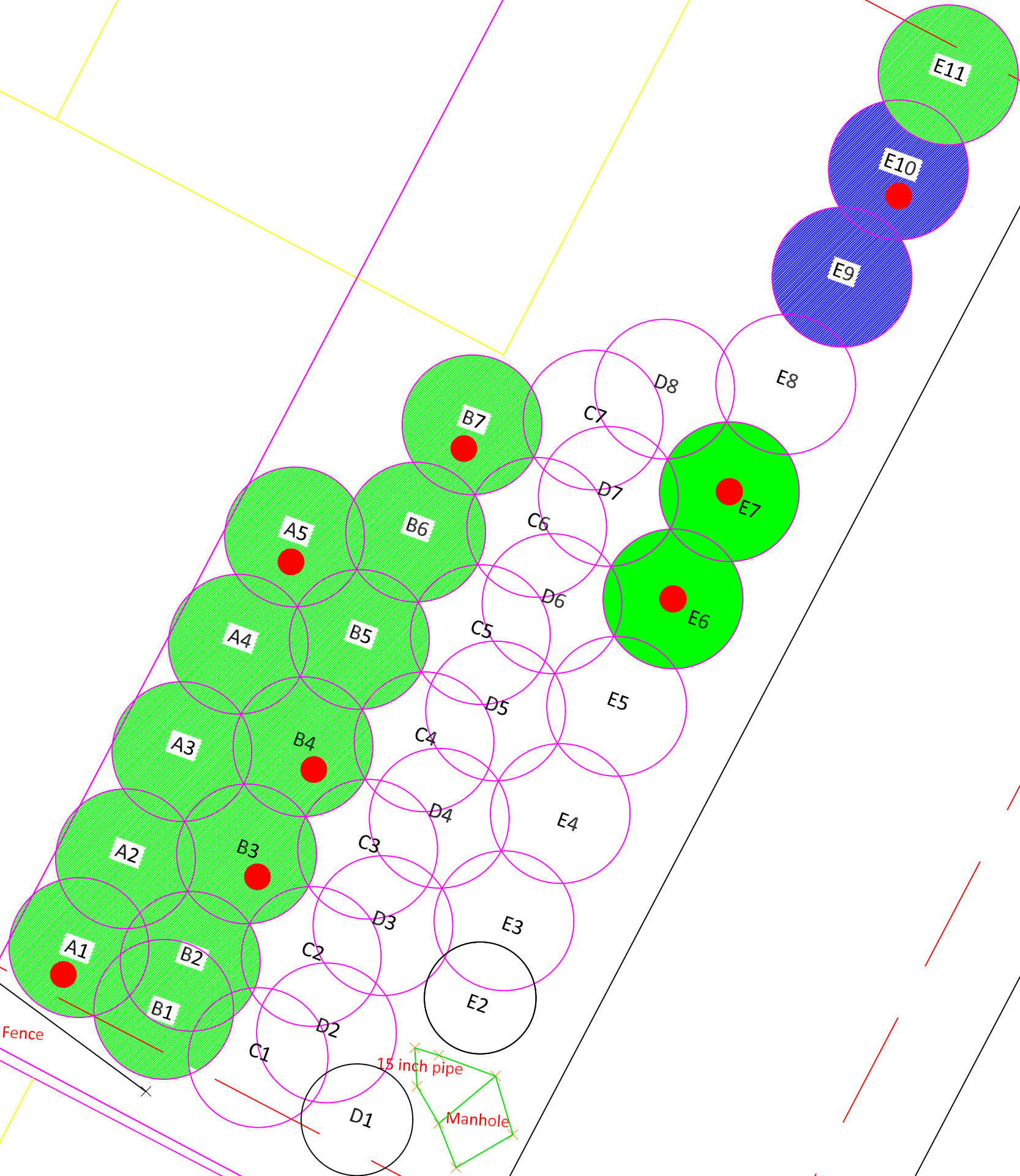


1250 Fifth Avenue, New Kensington, PA 15068
Tel: 724-335-7273 Fax: 724-335-7271
www.geo-solutions.com

IN-SITU SOIL STABILIZATION - AUGER MIXING SLAG DELIVERY INVOICE TRACKING

[illegible]

- Previously completed Columns
- Columns completed today
- Sampled Columns
- Obstructed Columns



GOWANUS CANAL

CANAL

REV					DESCRIPTION					CHECKED				
A					REV					APPROVED				
B					REV					PROPERTY OF GEO-SOLUTIONS, INC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS AND SUPPLIERS WITHOUT THE WRITTEN CONSENT OF GEO-SOLUTIONS, INC.				
C					REV					APPROVED				

Brooklyn, NY Auger ISS Report



Job Site Data

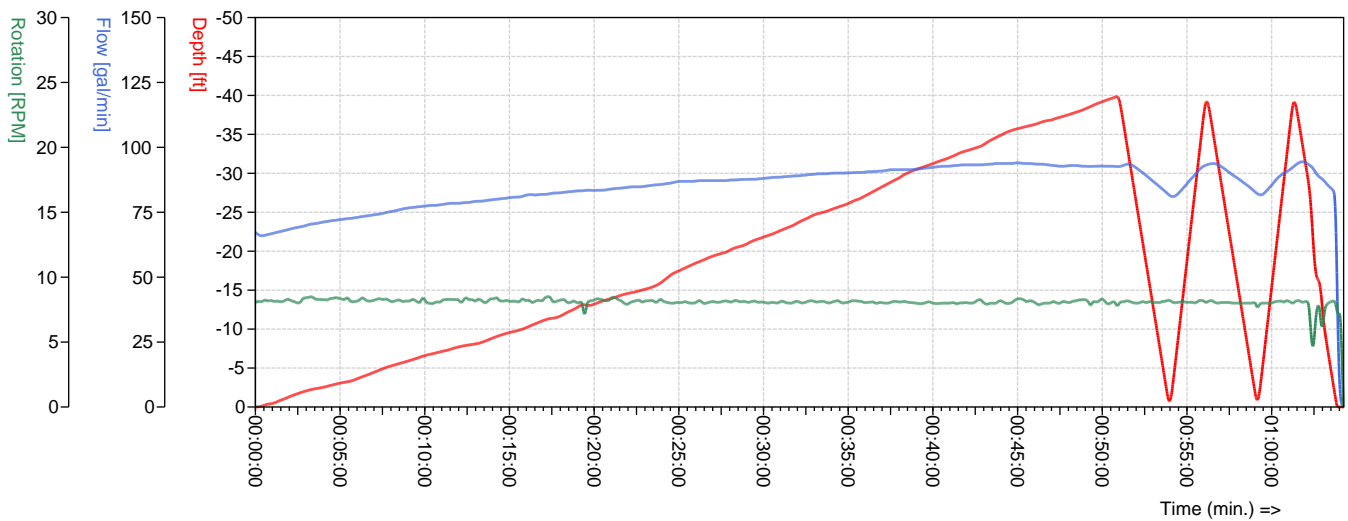
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JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: E10

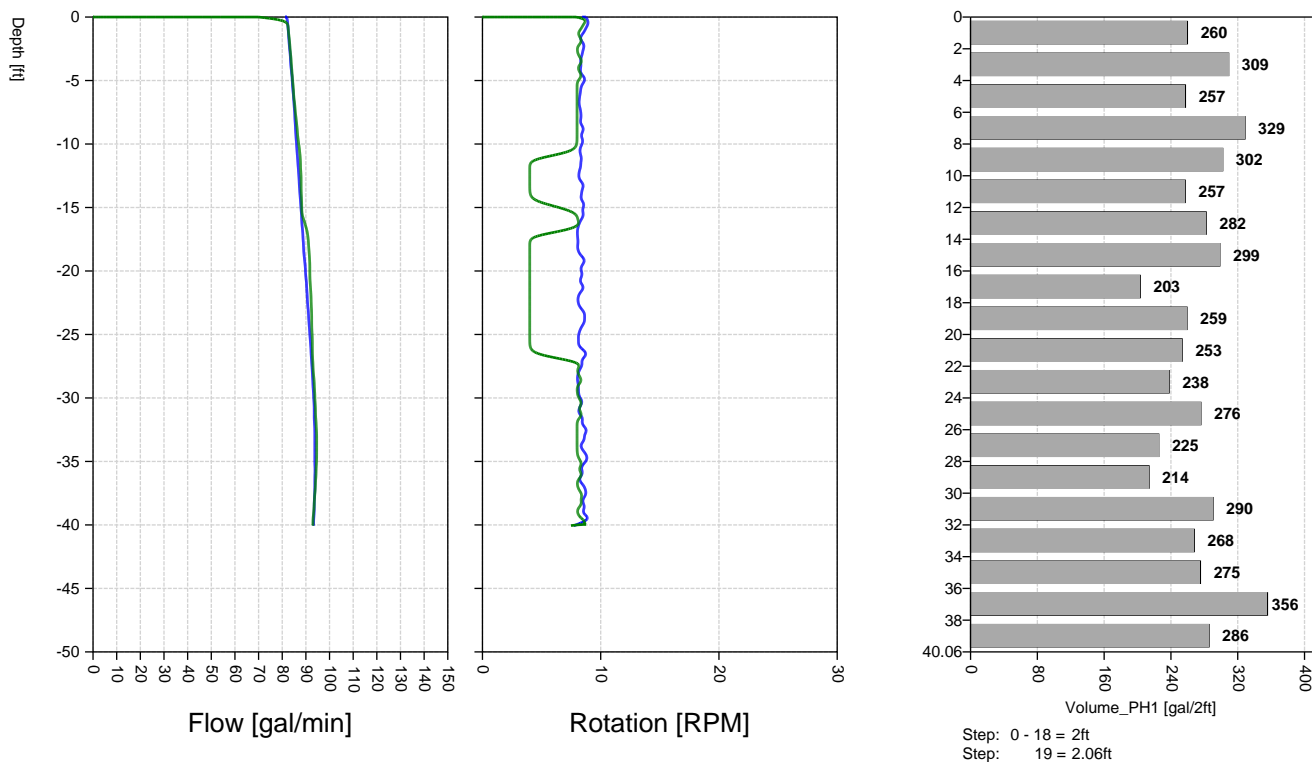
Date: 9/20/2024
Start of production: 8:50:30 AM
End of production: 9:54:44 AM
Total time: 01:04:14
Pause time: 00:00:00

Pile length: 40.06 ft
Total Grout: 5452 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment

Brooklyn, NY Auger ISS Report



Job Site Data

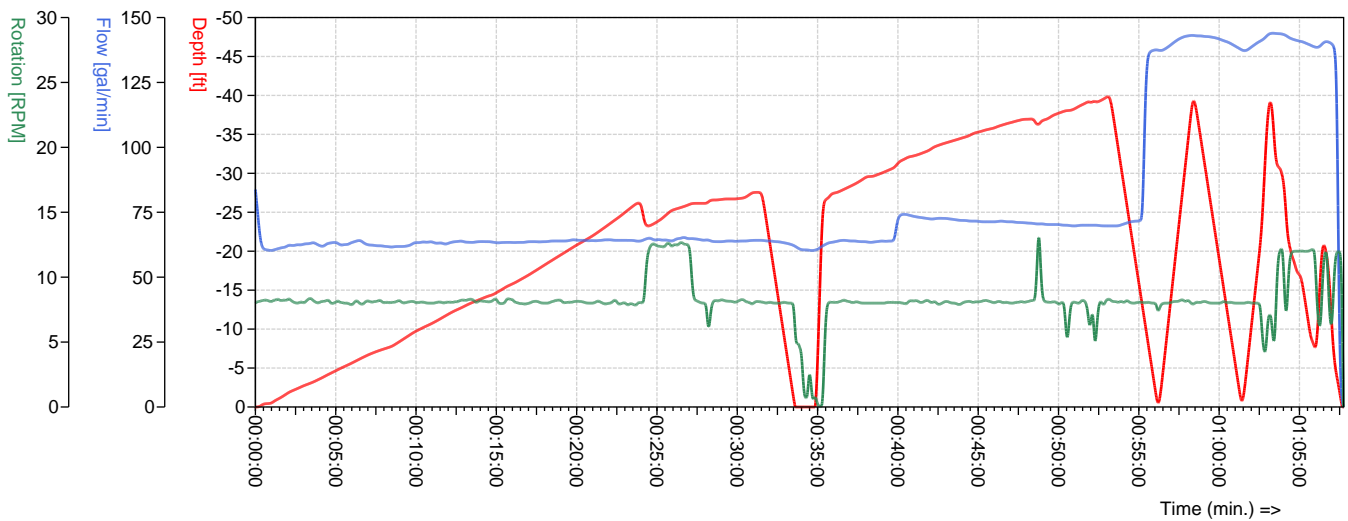
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: E9

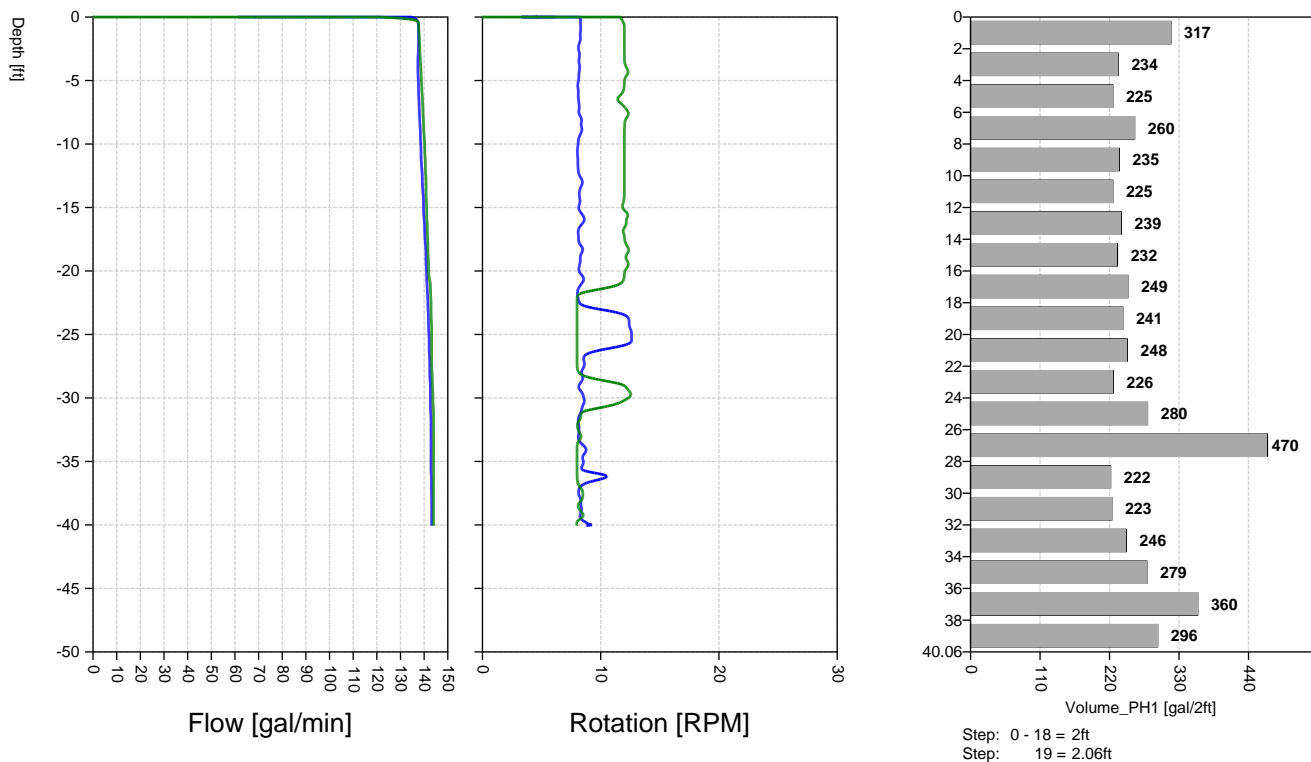
Date: 9/20/2024
Start of production: 10:32:22 AM
End of production: 11:40:06 AM
Total time: 01:07:44
Pause time: 00:00:00

Pile length: 40.06 ft
Total Grout: 5327 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment