

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:	9/19/2024
Project Name:	450 Union Street, Brooklyn, NY		

Consultant: Vektor Consultants – Antonio Cardenas Visitors: WSP – Monica Puna	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 five columns: A4, A5, B5, B6, B7, and E11. 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 deodorizer onto the drilling locations, as needed when odors were observed.
- 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: 0.0379 mg/m³

Highest Levels:

PID: 0.0 ppm Dust: 0.1251 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.
- Elevated particulate readings were observed at the Upwind CAMP from 1:25 to 1:30 PM (Max. 0.1251 mg/m³) due to the enclosure's proximity to the batch plant silo during materials delivery. The elevated readings were not due to intrusive work. GSI applied dust suppression with water and particulate readings returned to background levels.
- No other 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.

SITE PLAN WITH LOCATIONS

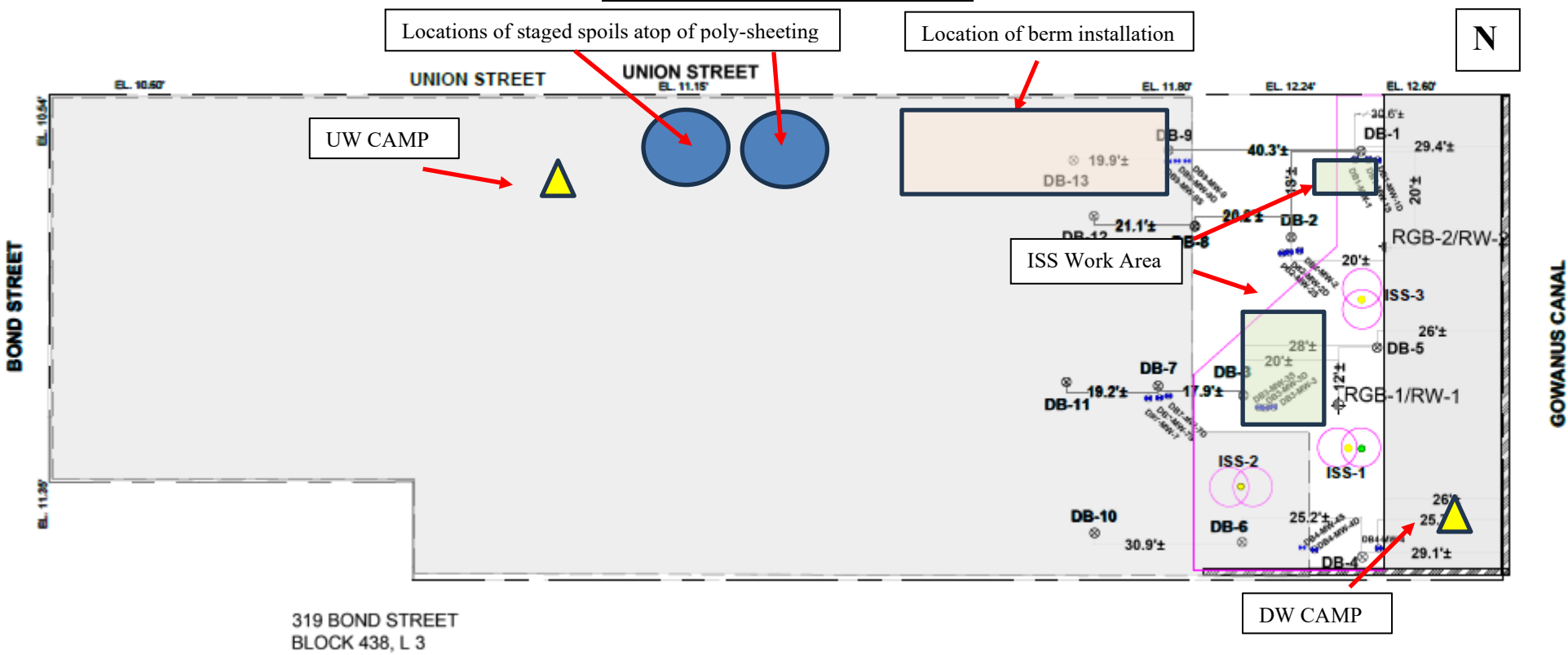


Photo Log

Photo 1:
View of GSI introducing 9% mixture
at column/cell A4, facing south.



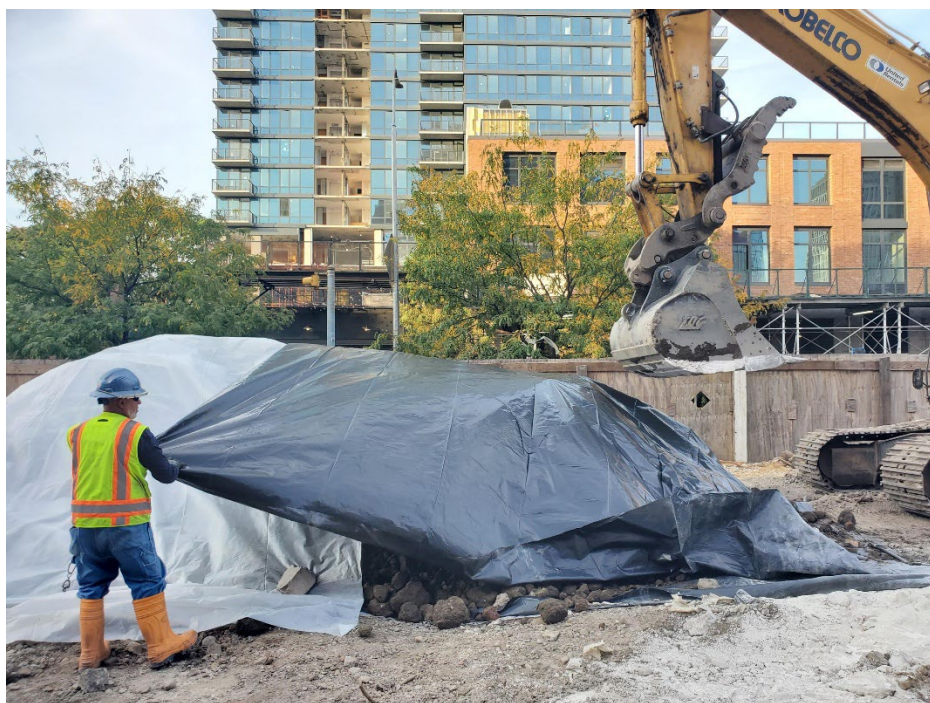
Photo 2:
General overview of the site, facing
south.



Photo 3:
View of GSI introducing 9% mixture
at column/cell E11, facing west.



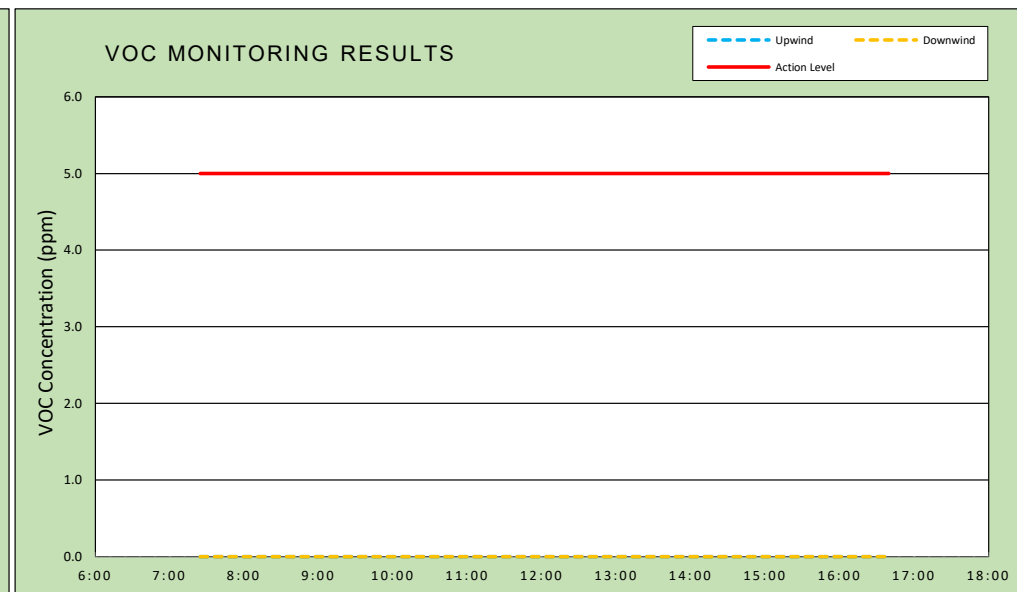
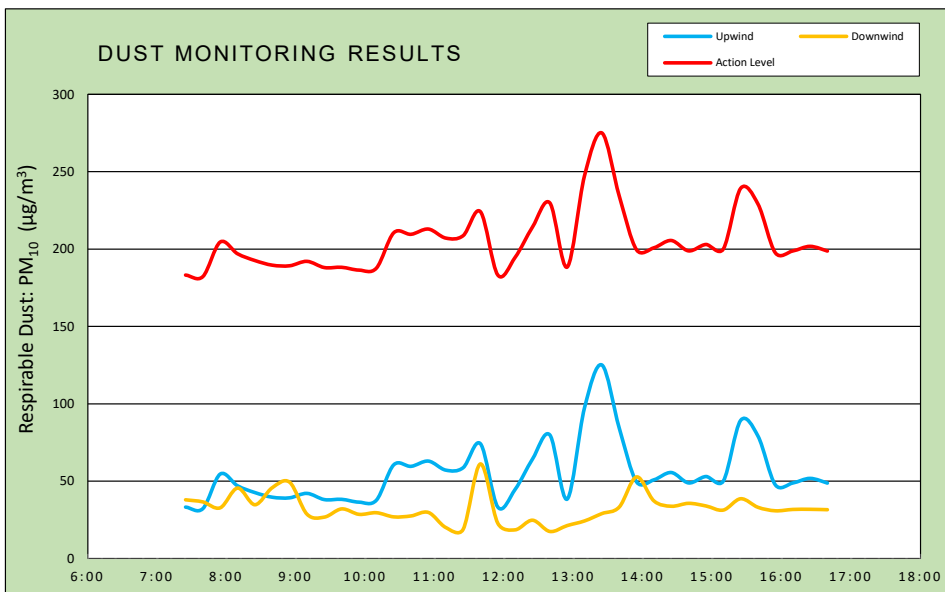
Photo 4:
GSI covering spoil stockpile with poly-
sheeting, facing north.



vEKtor consultants 37 W. 37th St, 6th Floor - New York, NY	DAILY AIR MONITORING REPORT 450 Union Street Brooklyn, New York		09/19/2024	
			Rev. No. 0	Page 1 of 2
			Project Number:	
			Dust Action Level	150 µg/m ³
			VOC Action Level	5 ppm

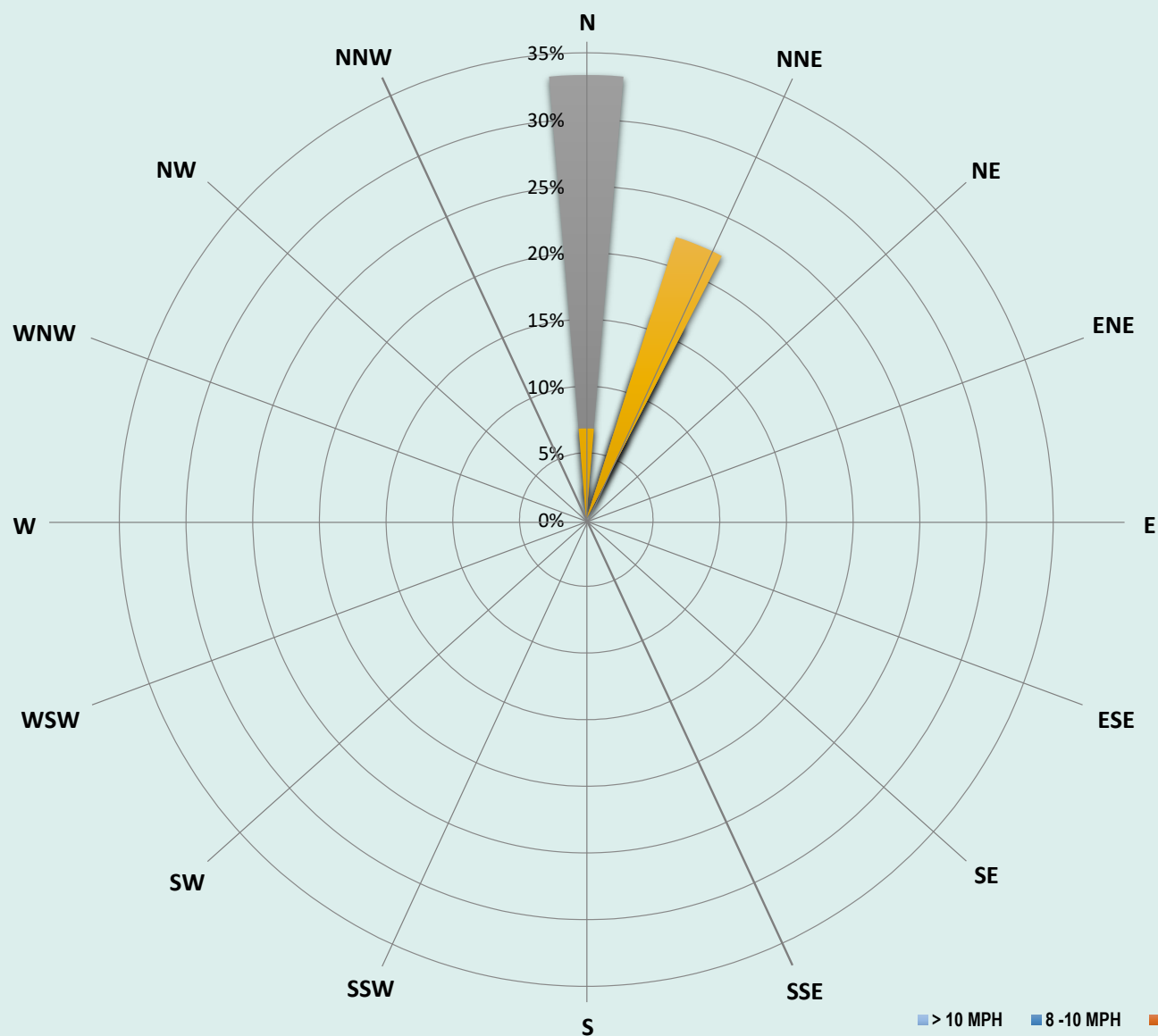
Weather Data Range for Work Day		Wind Direction	NNE	Relative Humidity (%)	33.0 - 73.0	Daily Rain Total (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temperature (°F)	69.0 - 85.0	Wind Speed (MPH)	3.4 - 9.1	Barometer (inHg)	29.90 - 29.90	Avg. Dew Point Temp (°F)	56.1	

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	55.0	125.1	13:25	0.0	0.0	7:25
Downwind	32.2	61.1	11:40	0.0	0.0	7:25



Air Monitoring Notes:

Weather Notes:



vEktor - 450 Union St
Air Monitoring
09/19/24
Wind Speed & Direction
Daily Readings

Thursday, September 19, 2024				
Number of Instances Where Downwind Particulates				0
Number of Comparable Data Points =				38
Start Time:				7:25
End Time:				16:40
PARTICULATE DATA				
Upwind		Downwind		Exceeds Particulate Alarm Limit
Time	15-Min Avg Concentration (ug/m ³)	Time	15-Min Avg Concentration (ug/m ³)	
7:25	33.2	7:25	37.9	-
7:40	32.2	7:40	36.6	-
7:55	54.6	7:55	32.8	-
8:10	47.0	8:10	45.5	-
8:25	42.6	8:25	34.7	-
8:40	39.6	8:40	45.8	-
8:55	39.2	8:55	49.3	-
9:10	42.1	9:10	28.6	-
9:25	38.1	9:25	26.7	-
9:40	38.2	9:40	32.0	-
9:55	36.4	9:55	28.5	-
10:10	37.7	10:10	29.6	-
10:25	60.5	10:25	26.9	-
10:40	59.6	10:40	27.5	-
10:55	62.9	10:55	29.7	-
11:10	57.1	11:10	20.0	-
11:25	58.7	11:25	18.8	-
11:40	74.1	11:40	61.1	-
11:55	33.2	11:55	22.8	-
12:10	44.7	12:10	18.5	-
12:25	64.3	12:25	24.7	-
12:40	79.8	12:40	17.5	-
12:55	38.4	12:55	21.3	-
13:10	97.5	13:10	24.3	-
13:25	125.1	13:25	29.0	-
13:40	84.3	13:40	33.2	-
13:55	49.5	13:55	52.7	-
14:10	50.8	14:10	37.2	-
14:25	55.6	14:25	33.8	-
14:40	48.8	14:40	35.6	-
14:55	53.0	14:55	33.9	-
15:10	50.0	15:10	31.3	-
15:25	89.3	15:25	38.6	-
15:40	79.1	15:40	33.1	-
15:55	47.6	15:55	30.8	-
16:10	48.8	16:10	31.7	-
16:25	51.8	16:25	31.8	-
16:40	48.7	16:40	31.5	-

Thursday, September 19, 2024				
Number of Instances Where Downwind VOCs Exceeds				0
Number of Comparable Data Points =				0
Start Time:				7:25
End Time:				16:40
PID DATA				
Upwind		Downwind		Exceeds VOC Alarm Limit
Time	15-Min Avg Concentration (ppm)	Time	15-Min Avg Concentration (ppm)	
7:25	0.0	7:25	0.0	-
7:40	0.0	7:40	0.0	-
7:55	0.0	7:55	0.0	-
8:10	0.0	8:10	0.0	-
8:25	0.0	8:25	0.0	-
8:40	0.0	8:40	0.0	-
8:55	0.0	8:55	0.0	-
9:10	0.0	9:10	0.0	-
9:25	0.0	9:25	0.0	-
9:40	0.0	9:40	0.0	-
9:55	0.0	9:55	0.0	-
10:10	0.0	10:10	0.0	-
10:25	0.0	10:25	0.0	-
10:40	0.0	10:40	0.0	-
10:55	0.0	10:55	0.0	-
11:10	0.0	11:10	0.0	-
11:25	0.0	11:25	0.0	-
11:40	0.0	11:40	0.0	-
11:55	0.0	11:55	0.0	-
12:10	0.0	12:10	0.0	-
12:25	0.0	12:25	0.0	-
12:40	0.0	12:40	0.0	-
12:55	0.0	12:55	0.0	-
13:10	0.0	13:10	0.0	-
13:25	0.0	13:25	0.0	-
13:40	0.0	13:40	0.0	-
13:55	0.0	13:55	0.0	-
14:10	0.0	14:10	0.0	-
14:25	0.0	14:25	0.0	-
14:40	0.0	14:40	0.0	-
14:55	0.0	14:55	0.0	-
15:10	0.0	15:10	0.0	-
15:25	0.0	15:25	0.0	-
15:40	0.0	15:40	0.0	-
15:55	0.0	15:55	0.0	-
16:10	0.0	16:10	0.0	-
16:25	0.0	16:25	0.0	-
16:40	0.0	16:40	0.0	-

Project:	450 Union Remediation	Project No.:	24-071	Date:	09/19/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Thursday
Owner:	2201 Union LLC	Superintendent:	Rick McKay	Days on Site:	32
Manager:	Trae Deri	Engineer:	Srujan Prasad	Shift Times:	7:00-17:00

Weather:		
Low: 64	Cloud Cover: Sunny	Wind: 5-10MPH
High: 83	Precipitation: 0"	Direction: N
Description of Work Activities:		
- 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. - 0730 to 1500, GSI received a 3 loads of slag and 1 load of PC. - 0751, GSI started drilling column A4 and completed to depth at 0901. - 0907, GSI started drilling column A5 and completed to depth at 1012, Following the completion of the column, GSI collected a sample at 28 ftbgs and casted the material into cylinders - 1049, GSI started drilling columns B5, B6 and completed to depth at 1321. - 1340, GSI started drilling column B7 and completed to depth at 1442, Following the completion of the column, GSI collected a sample at 33 ftbgs and casted the material into cylinders. - 1445 to 1530, GSI welded a crack in the centralizer of the Rig. - 1554, GSI started drilling column E11 and completed the last column of the day to depth at 1701. - 1700 to 1730, GSI washed out the lines and Kobelco 210 excavator moved crane mats and managed ISS spoils. - 1700 to 1800, GSI moved the swell materials towards west of the jobsite casting poly-lined using Kobelco 300 excavator. - 1800, All GSI personnel offsite.		
Conversation with Client/Inspector:		
Production Delays:		
Safety Topics:		
Discussed: Trip Injuries and Prevention Safety Talk.		

Rick McKay
 Foreman/Superintendent

09/19/24
 Date

Project:	450 Union Remediation			Project No.:	24-071		Date:	09/19/24	
Client:	2201 Union LLC			Location:	Brooklyn, NY		Day of Week:	Thursday	
Owner:	2201 Union LLC			Superintendent:	Rick McKay		Days on Site:	32	
Manager:	Trae Deri			Engineer:	Srujan Prasad		Shift Times:	7:00-17:00	
Production:					Completion:				
Today: 640.51 CY 6 Columns					34% Columns				
To-Date: 1,539.78 CY 15 Columns					34.99% CY				
Materials Received:									
Material		Unit	Today		Total		Notes		
Slag- Grade 120		Ton	76		197				
Portland Cement - Type 1L		Ton	25		95				
Disposal Trucks		N/A	0		18				
Hours	Equipment		Task		Hours	Employees On Site		Trade	
11.0	Offroad Forklift		Material Handling			Trae Deri		PM	
11.0	185 Air Compressor		ISS Mixing		12.0	Rick McKay		SUPT	
11.0	Conex box(1)		Storage		12.0	Srujan Prasad		ENG	
11.0	300kw Generator		Batch Plant		11.5	Eric Shannon		DRILL	
11.0	Lo-pro silo(2)		Cement Storage		11.0	Miguel Maldonado		LAB	
11.0	Flash mixers (2)		Batch Plant		11.0	Daniel Santos		BPO	
11.0	Moyno pump(2)		Batch Plant		11.0	Peter Liota		OP	
11.0	Delmag Hydraulic Rig		ISS Mixing		11.0	Steven Reda		LAB	
11.0	Manlift(1)		Maintenance		11.0	Louis Passannante		OP	
11.0	Kobelco 210 Excavaor		ISS Mixing		10.5	Christhopher Ramdial		OILER	
11.0	250kw Generator		Batch Plant						
11.0	Kobelco 300 Excavator								
132	TOTAL DAY HOURS				101	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

09/19/24

Date

Project:	450 Union Remediation	Project No:	24-071	Date:	09/19/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Thursday
Owner:	2201 Union LLC	Superintendent	Rick McKay	Days on Site:	32
Manager:	Trae Deri	Engineer:	Srujan Prasad	Shift Times:	7:00-17:00

 IN-SITU SOIL STABILIZATION - AUGER MIXING
 COLUMN LOG

 Operator: _____
 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	%	
9/19/2024	A4	7:51	9:01	12.0	-28.2	40.2	3	10	2	9	69.6	103.51	4,623	5,141	9.0%	21,442	6.7%	10,721	3.3%	1.0
9/19/2024	A5	9:07	10:12	12.0	-28.1	40.1	3	10	1	4.5	74.1	109.89	4,909	5,116	9.0%	21,338	6.3%	10,669	3.1%	1.0
9/19/2024	B5	10:49	11:53	12.0	-28.2	40.2	3	10	3	13.4	65.1	96.92	4,329	4,523	9.0%	18,864	6.3%	9,432	3.1%	1.0
9/19/2024	B6	12:21	13:21	12.0	-28.2	40.2	3	10	1	9.0	69.6	103.51	4,623	4,866	9.0%	20,295	6.3%	10,147	3.2%	1.0
9/19/2024	B7	13:40	14:42	12.0	-28.2	40.2	3	10	1	4.5	74.1	110.25	4,924	5,030	9.0%	20,979	6.1%	10,489	3.1%	1.0
9/19/2024	E11	15:54	17:01	12.0	-28.0	40.0	3	10	0	0	78.5	116.44	5,201	5,575	9.0%	23,252	6.4%	11,626	3.2%	1.0
												Production Today	640.51 CY	Material Used Today		63.1	Tons	31.5	Tons	
												Production To-Date	1539.78 CY	Material Used To-Date		63.1	Tons	31.5	Tons	

 Comments:
 - GSI sampled column A5 and B7 at a depth of 28 and 33 feet.

Discussed:

 Rick McKay
 Foreman/Superintendent

 SIGNED: _____
 Client QC Manager

Project:	450 Union Remediation	Project No.:	24-071	Date:	09/19/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Thursday
Owner:	2201 Union LLC	Superintendent:	Rick Mckay	Days on Site:	32
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.
9/19/2024	8:00	1.0:1	1.51
9/19/2024	10:20	1.0:1	1.51
9/19/2024	14:15	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	Project No.: 24-071	9/19/2024 9/19/2024
Client: 2201 Union LLC	Location: Brooklyn, NY	Day of Week: Thursday
Owner: 2201 Union LLC	Superintendent: Rick McKay	2/1/1900 32
Manager: Trae Deri	Engineer: Srujan Prasad	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 3x6s 2x4s		UCS	Permeability	UCS	Permeability	
						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					

Comments:

Rick McKay

Foreman/Superintendent

Client QC Manager



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

[illegible]

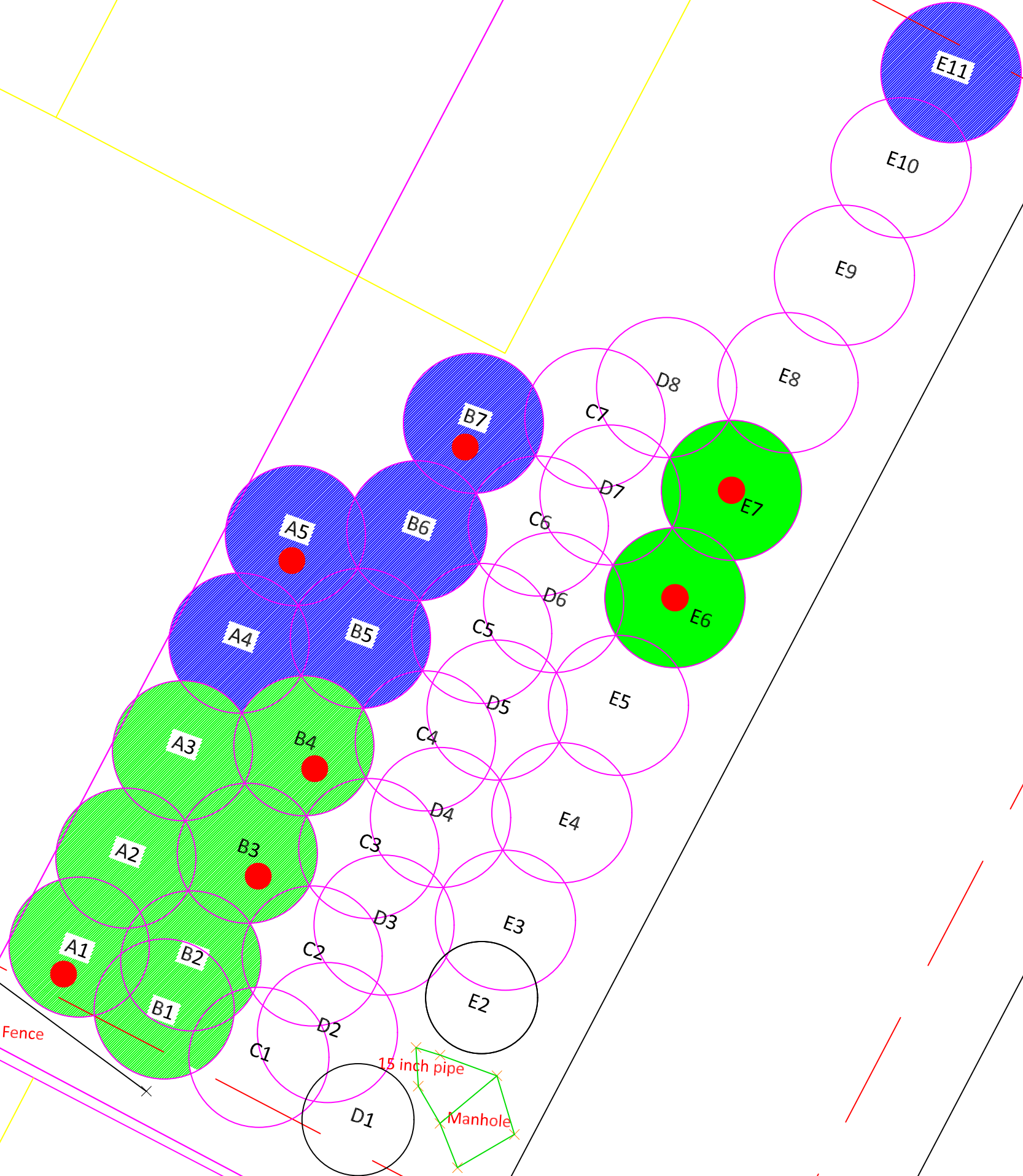


1250 Fifth Avenue, New Kensington, PA 15068
Tel: 724-335-7273 Fax: 724-335-7271
www.geo-solutions.com

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				Revised	DATE	Appr'd		APPROVED			
B				Revised	DATE	Appr'd		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				Revised	DATE	Appr'd					
				REV							
				Revised	DATE	Appr'd					

Brooklyn, NY Auger ISS Report



Job Site Data

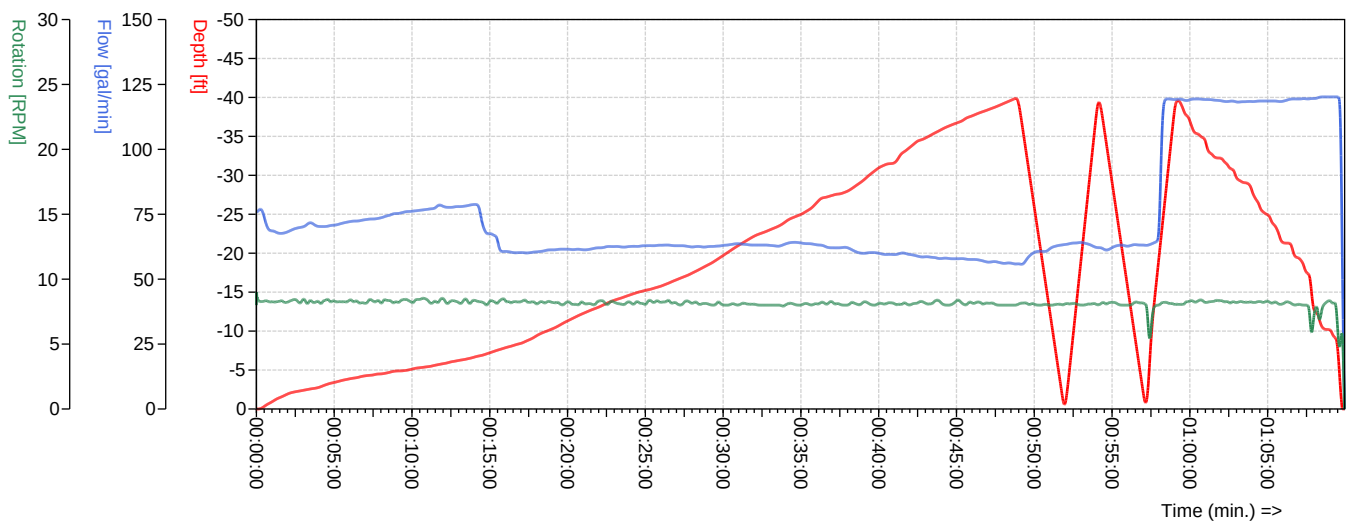
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: A4

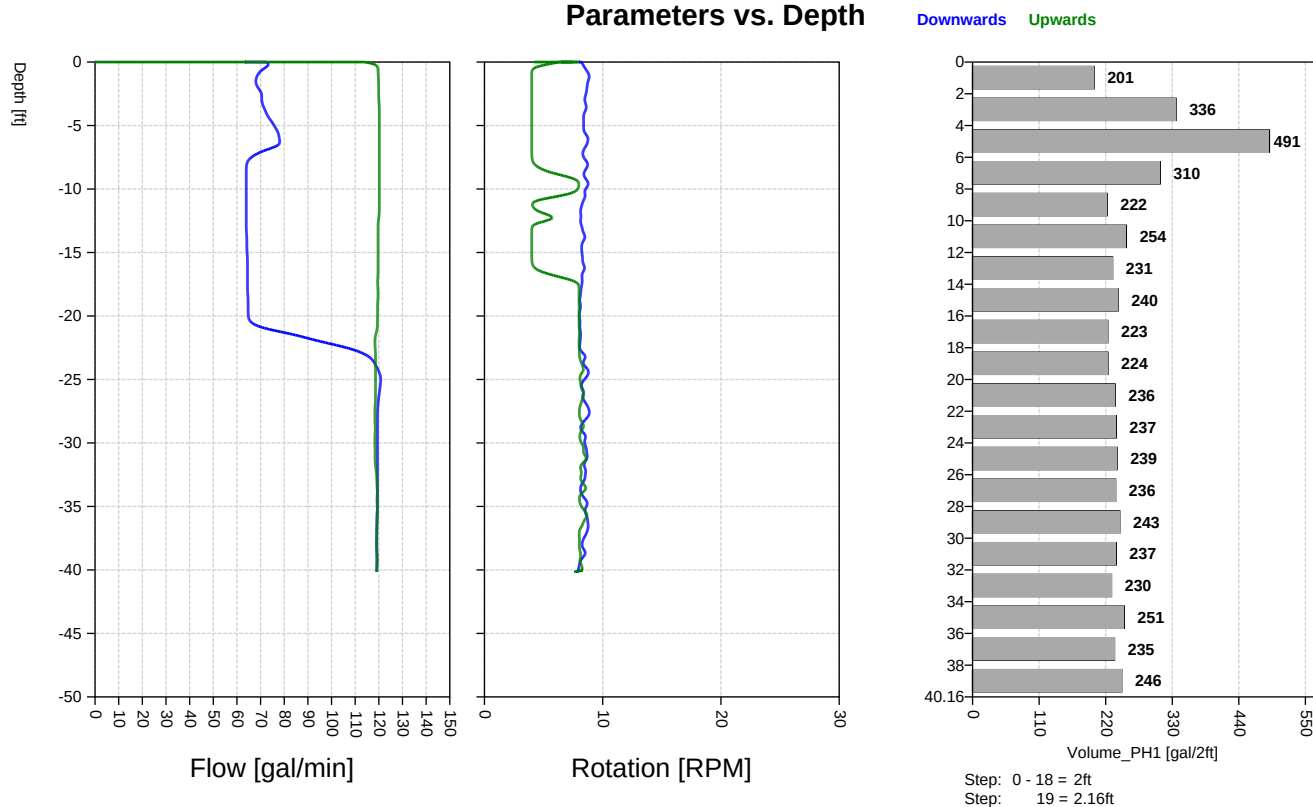
Date: 9/19/2024
Start of production: 7:51:43 AM
End of production: 9:01:39 AM
Total time: 01:09:56
Pause time: 00:00:00

Pile length: 40.16 ft
Total Grout: 5141 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment

Brooklyn, NY Auger ISS Report



Job Site Data

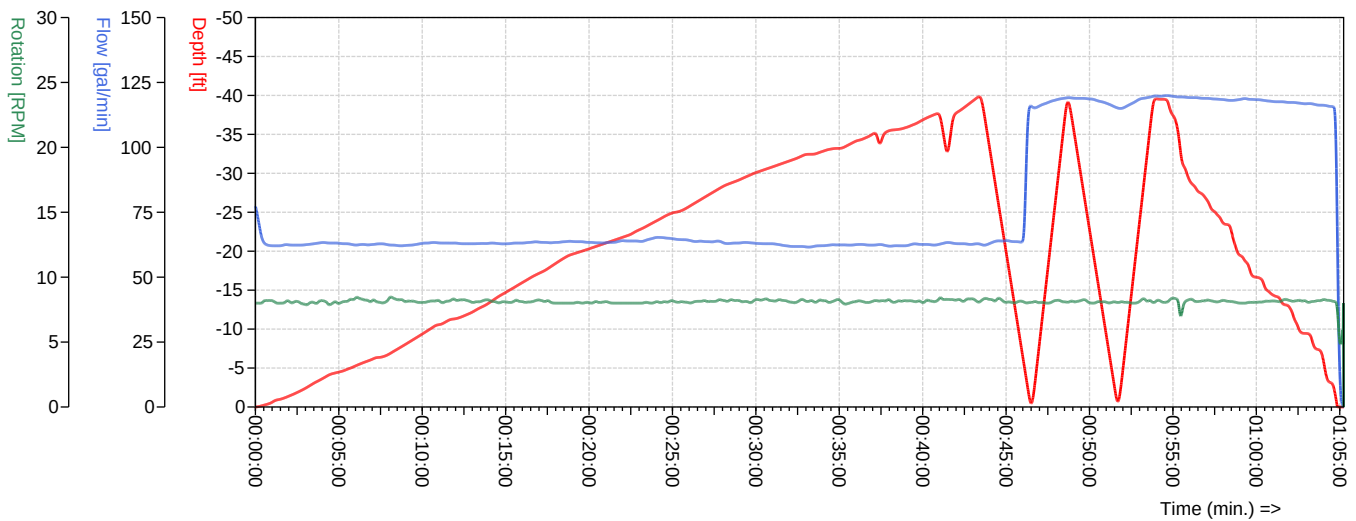
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: A5

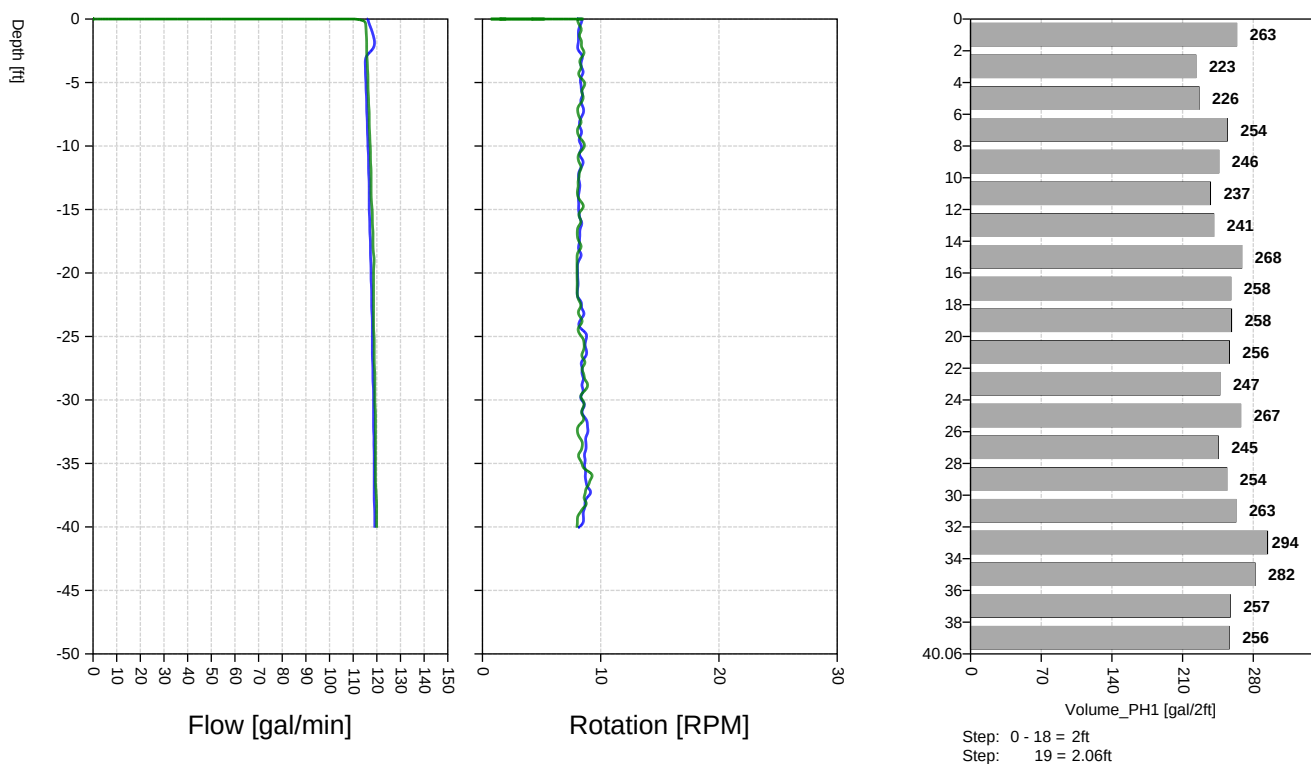
Date: 9/19/2024
Start of production: 9:07:09 AM
End of production: 10:12:21 AM
Total time: 01:05:12
Pause time: 00:00:00

Pile length: 40.06 ft
Total Grout: 5116 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment

Brooklyn, NY Auger ISS Report



Job Site Data

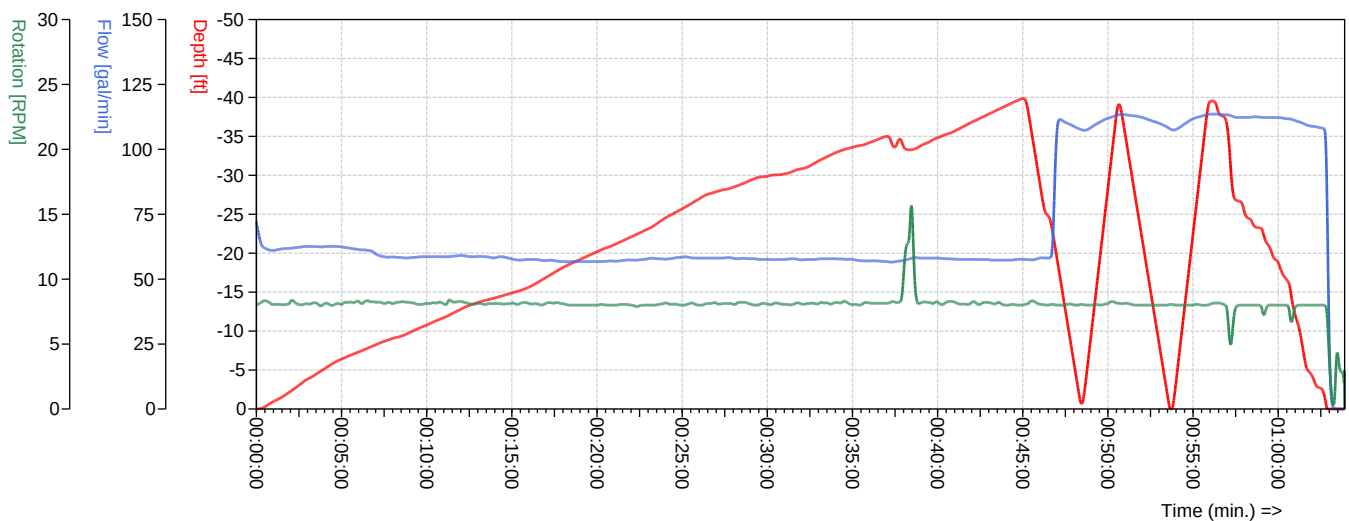
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: B5

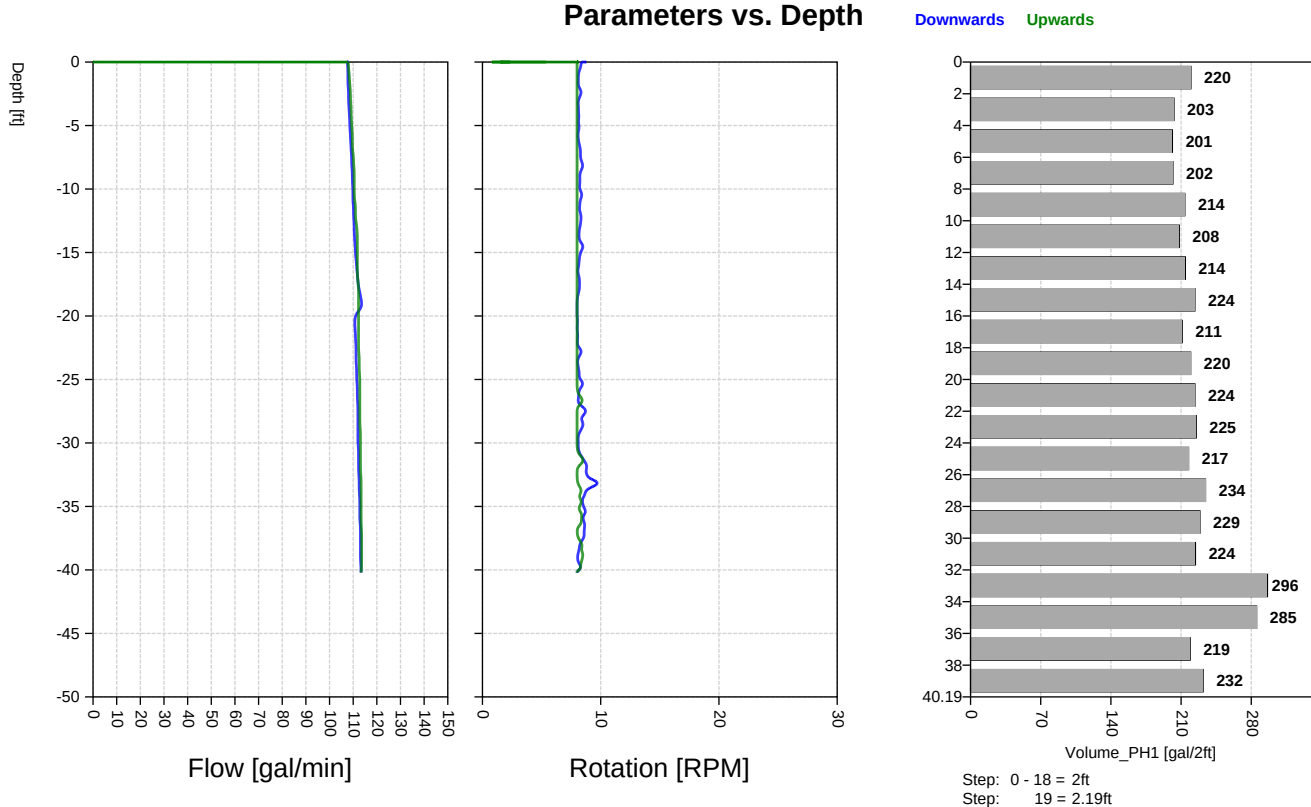
Date: 9/19/2024
Start of production: 10:49:16 AM
End of production: 11:53:09 AM
Total time: 01:03:53
Pause time: 00:00:00

Pile length: 40.19 ft
Total Grout: 4523 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment

Brooklyn, NY Auger ISS Report



Job Site Data

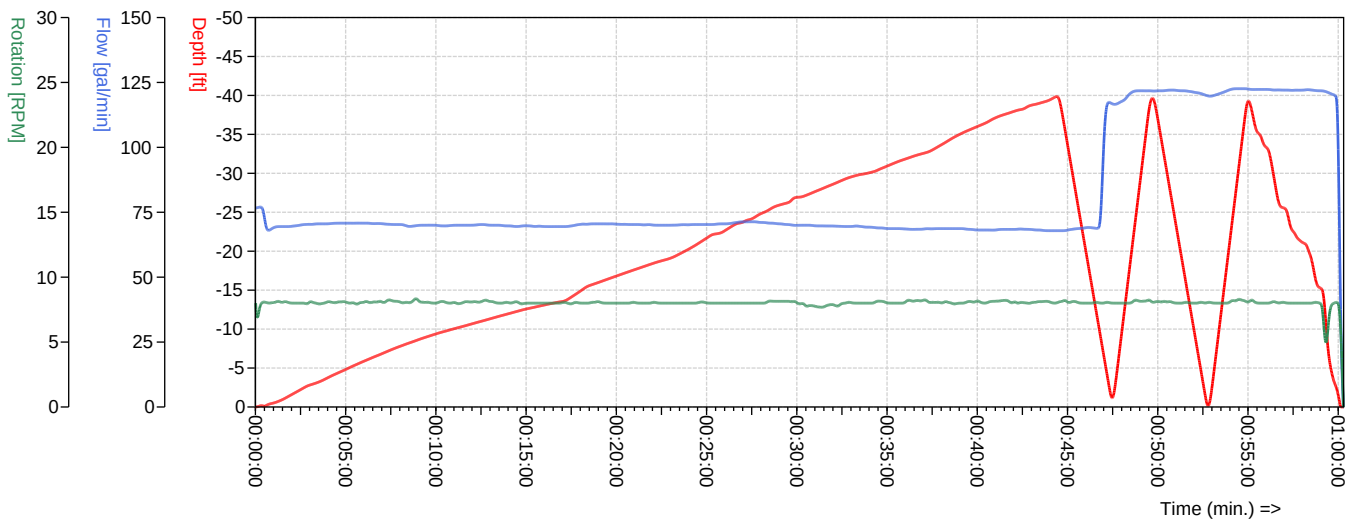
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: B6

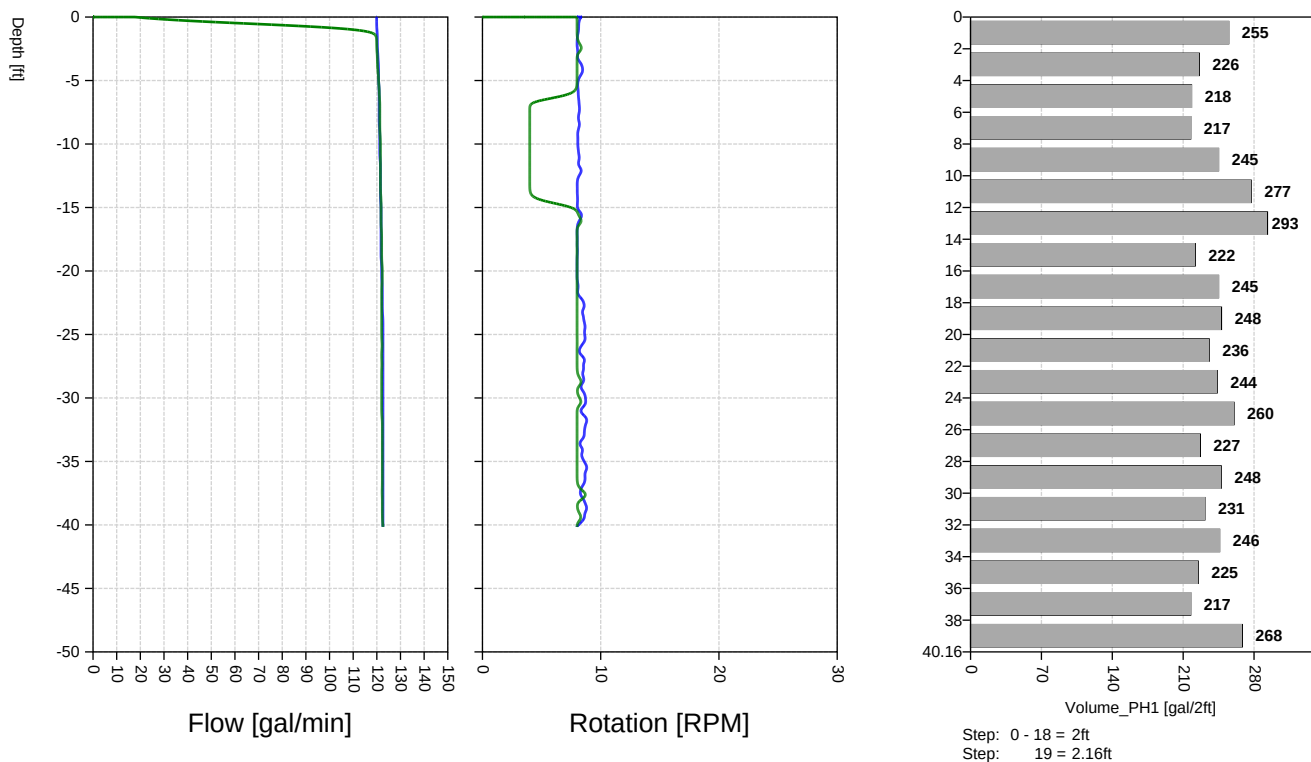
Date: 9/19/2024
Start of production: 12:21:38 PM
End of production: 1:21:55 PM
Total time: 01:00:17
Pause time: 00:00:00

Pile length: 40.16 ft
Total Grout: 4866 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment

Brooklyn, NY Auger ISS Report



Job Site Data

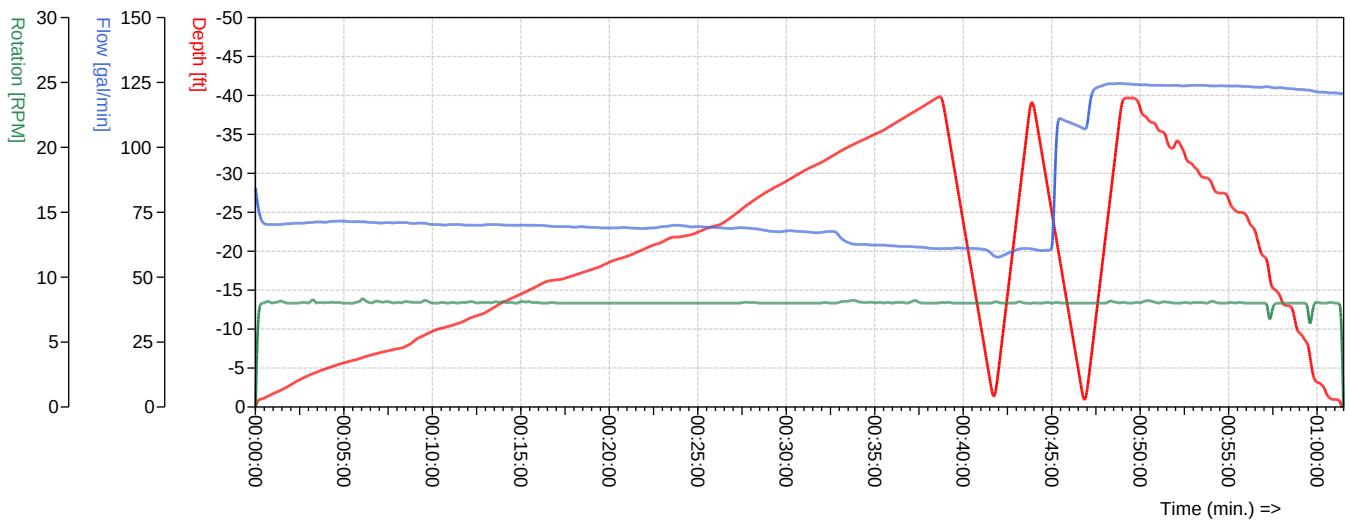
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: B7

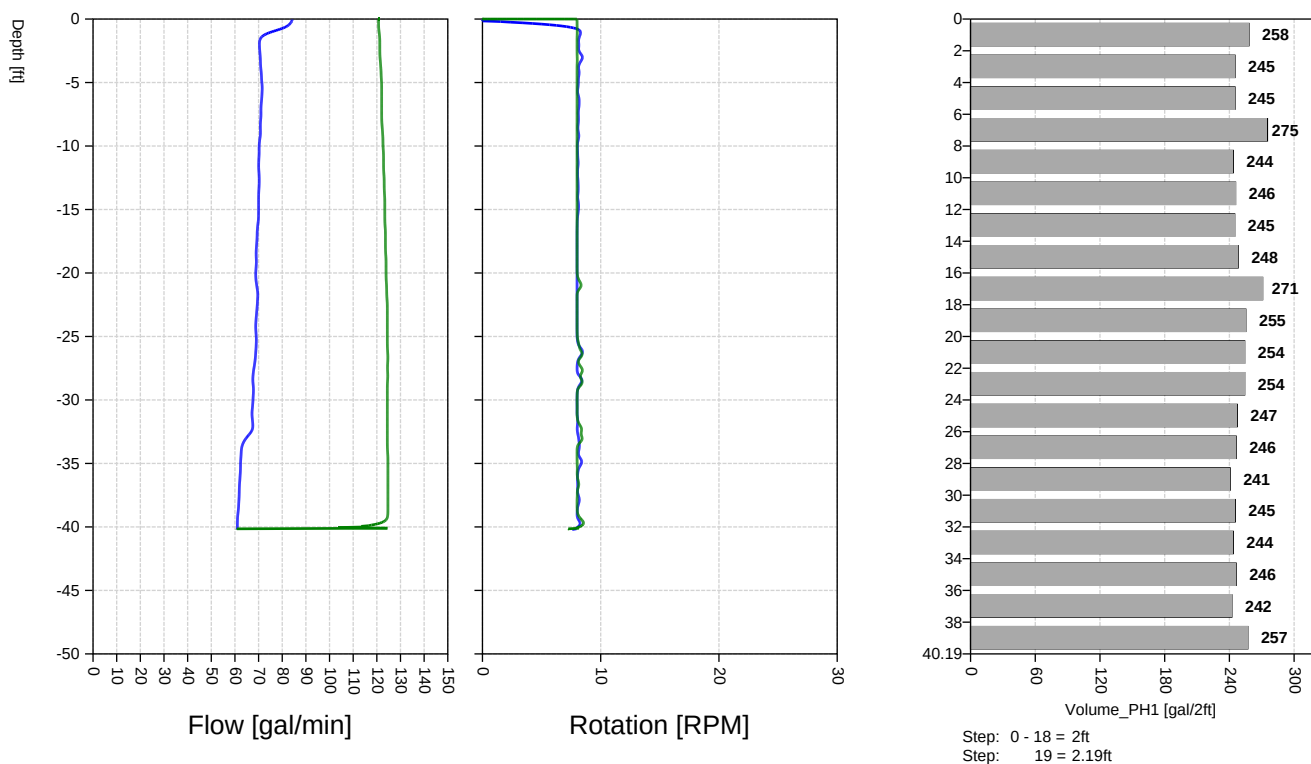
Date: 9/19/2024
Start of production: 1:40:47 PM
End of production: 2:42:15 PM
Total time: 01:01:28
Pause time: 00:00:00

Pile length: 40.19 ft
Total Grout: 5030 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment

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Job Site Data

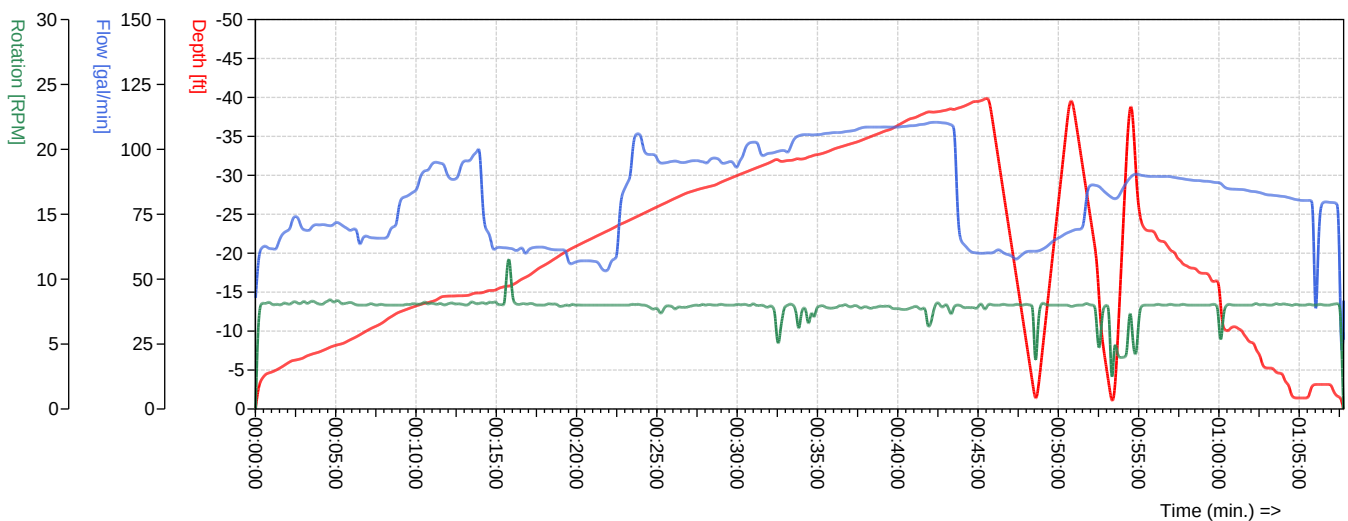
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: E11

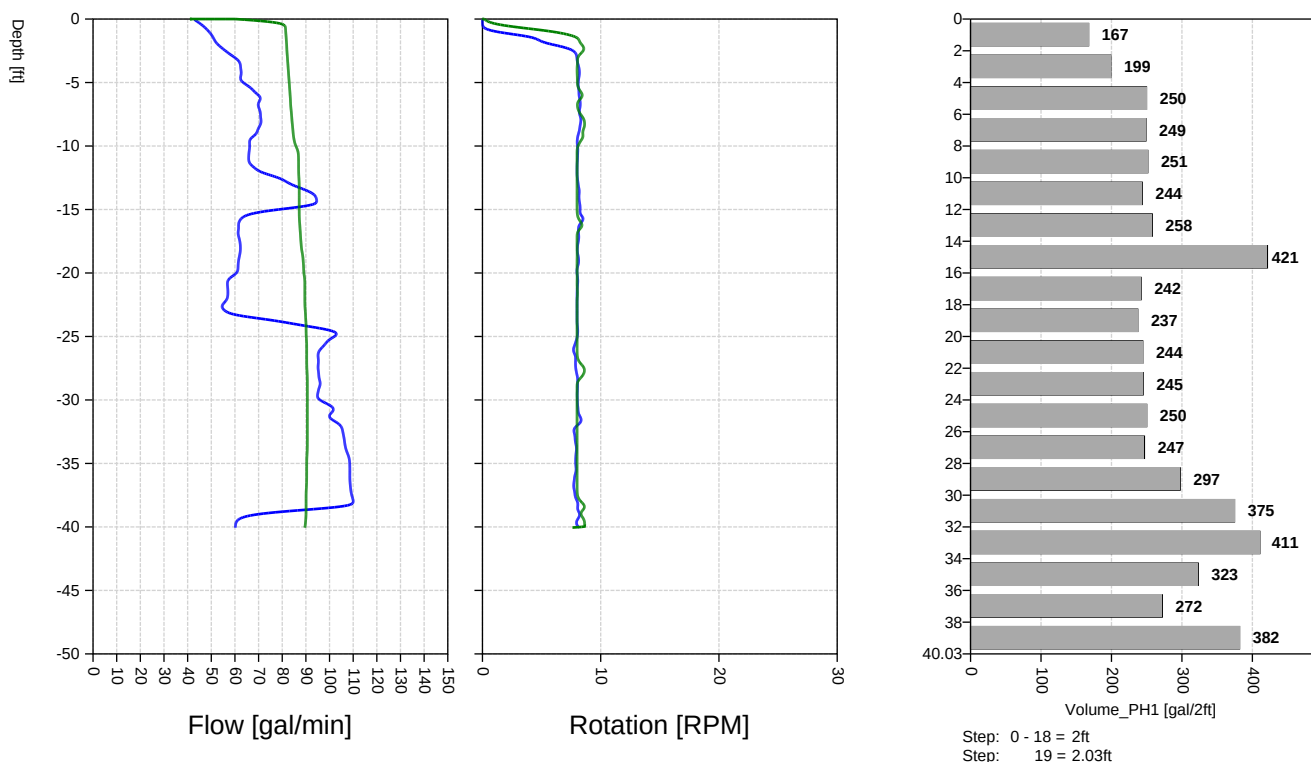
Date: 9/19/2024
Start of production: 3:54:12 PM
End of production: 5:01:57 PM
Total time: 01:07:45
Pause time: 00:00:00

Pile length: 40.03 ft
Total Grout: 5575 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment