

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:	9/18/2024
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: A1, A2, A3, B1, and B2. Three mixing passes were made for each column between working grade and 40 feet below grade.
- GSI excavated and staged ISS spoils material to the western portion of the Site on top of poly-sheeting. The stockpile was covered at the end of the day.
- 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 northeast.

Background Levels (Initial Readings at Start of Day):

PID: 0.0 ppm Dust: 0.0332 mg/m³

Highest Levels:

PID: 0.0 ppm Dust: 0.1433 mg/m³

- Upwind CAMP was implemented during C&D restaging. 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 C&D restaging. 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.
- Dust exceedance at the Upwind CAMP from 10:06 to 10:21 AM (Max. 0.1433 mg/m³) due to rogue dust generated from site conditions and not due to the intrusive scope. 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

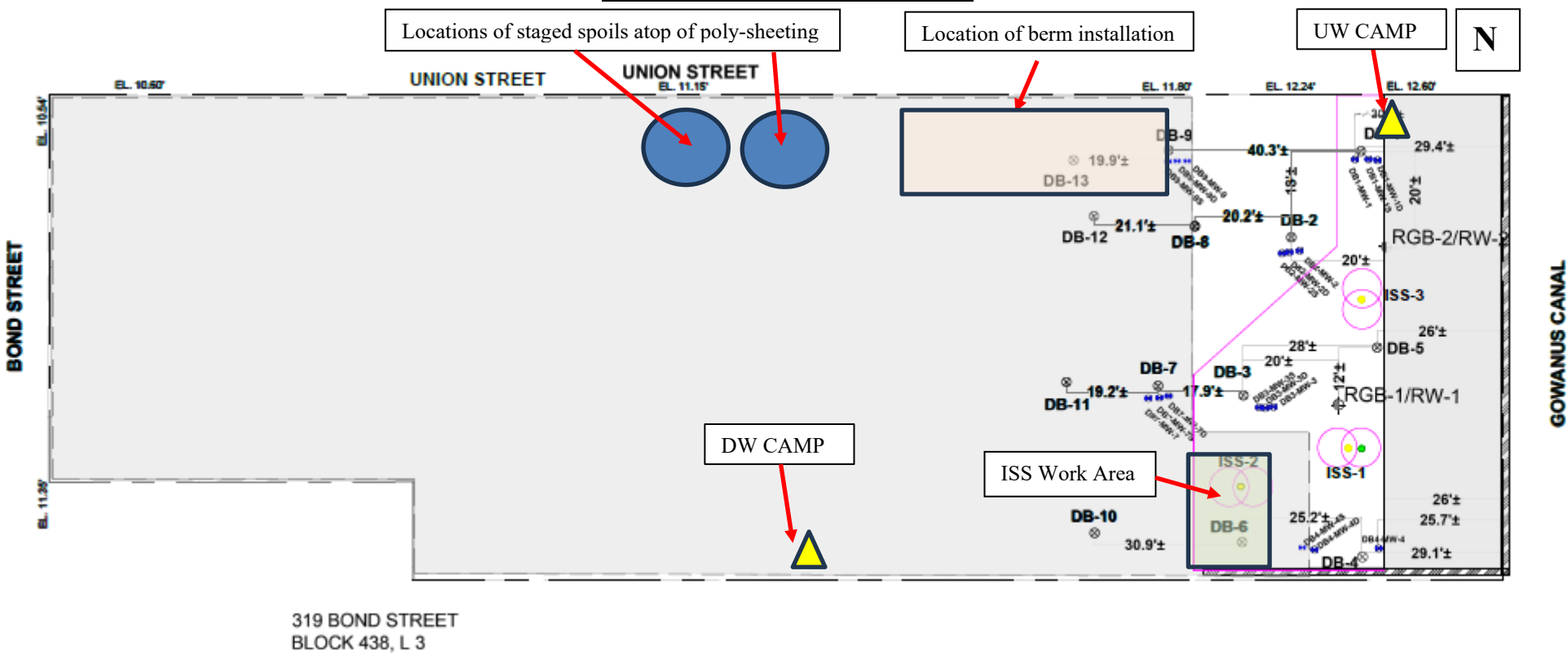


Photo Log

Photo 1:
View of GSI introducing 9% mixture
at column/cell B1, facing west.



Photo 2:
View of GSI introducing 9% mixture
at column/cell B2, facing east.



Photo 3:
GSI moving spoils staged within the berm onto poly-sheeting on the western portion of the site, facing northwest.



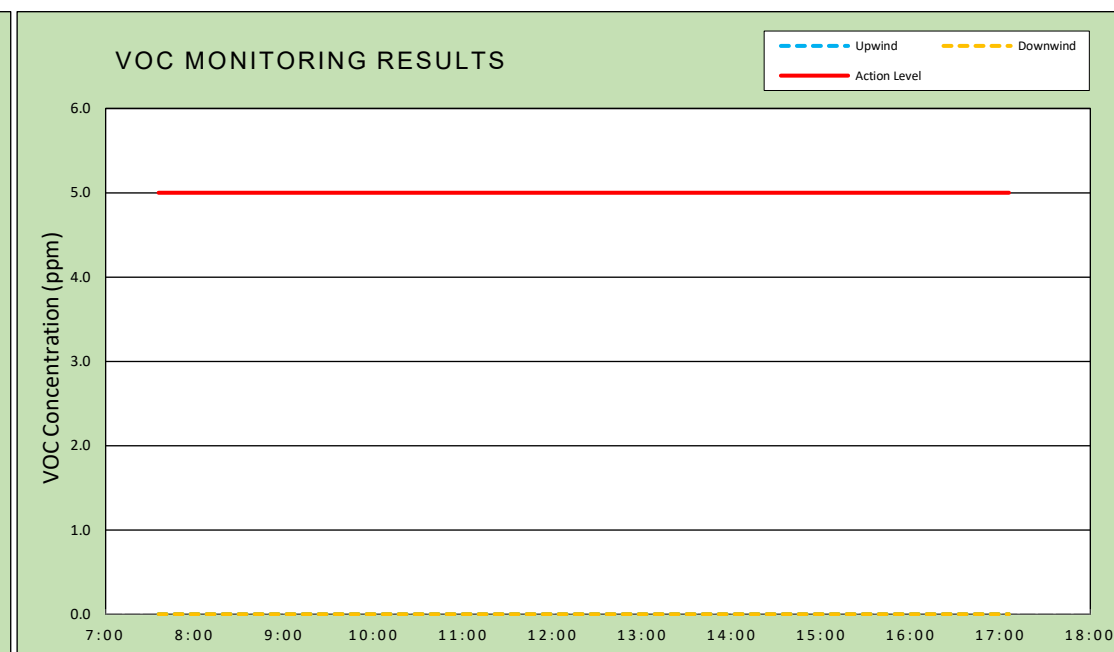
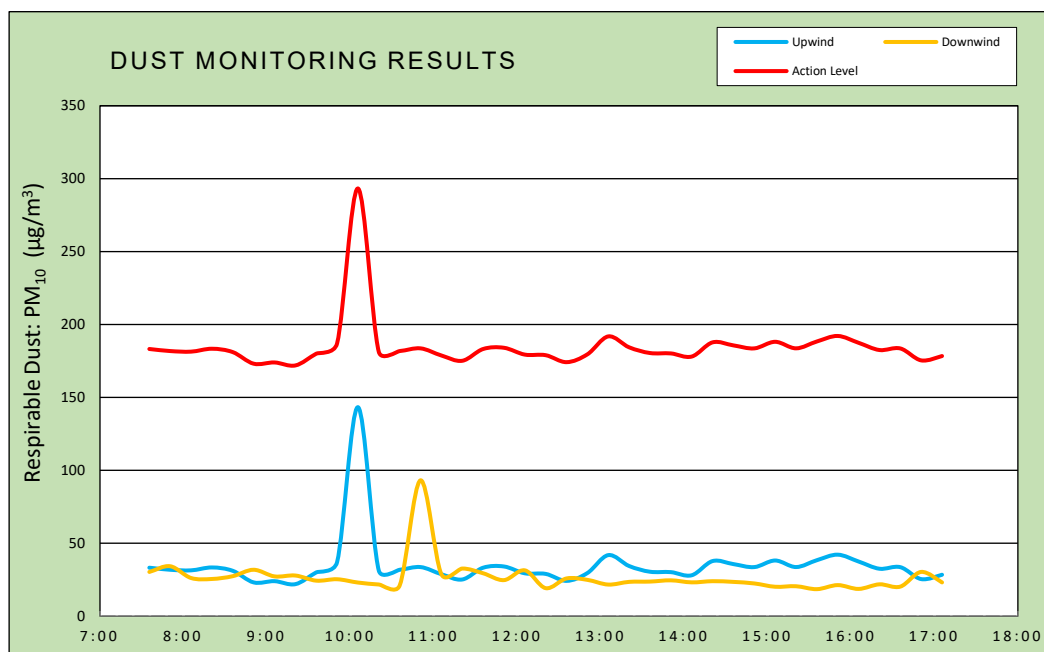
Photo 4:
GSI covering spoil stockpile with poly-sheeting, facing northwest.



vEktor consultants	DAILY AIR MONITORING REPORT 450 Union Street Brooklyn, New York					09/18/2024	
						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

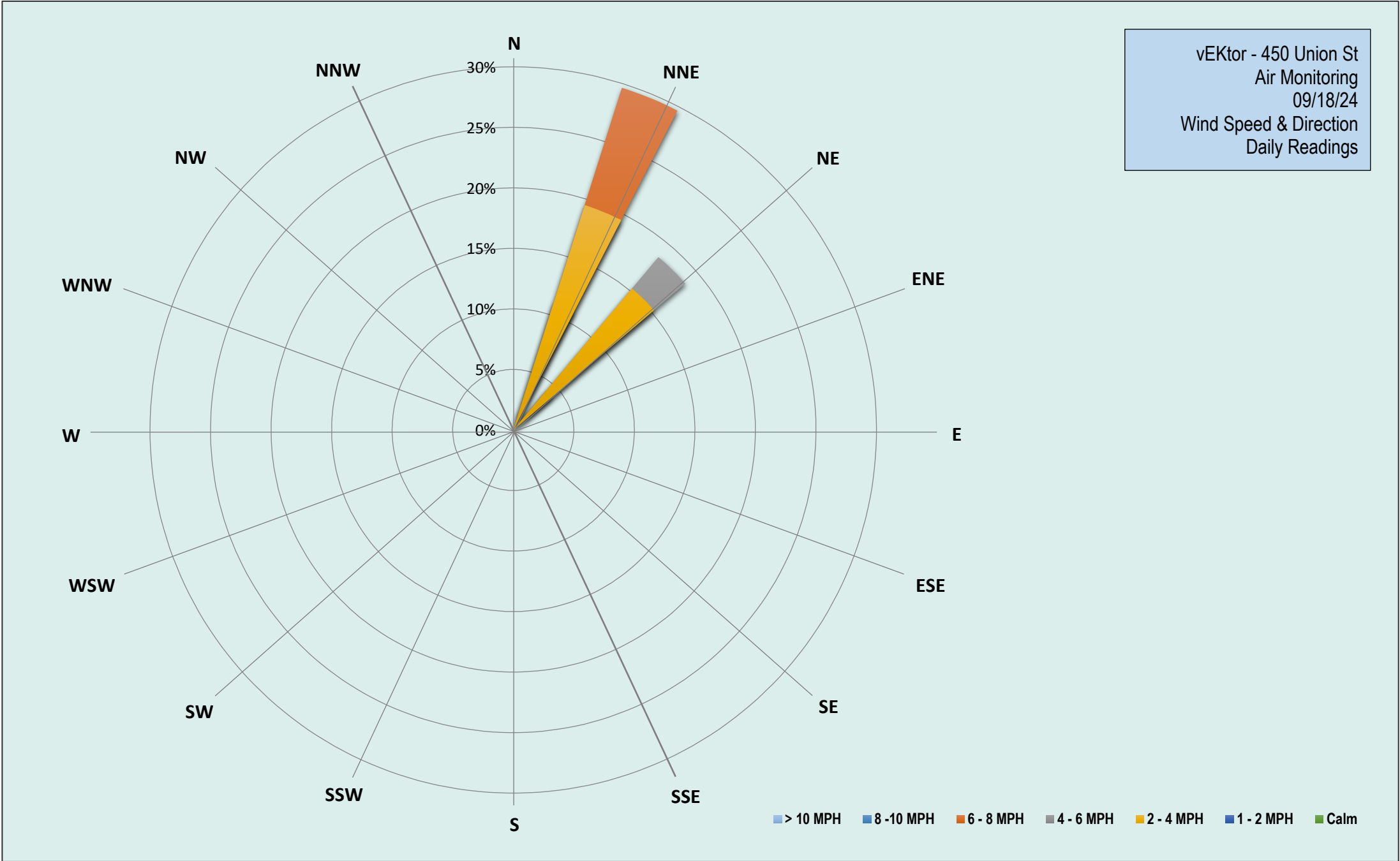
Weather Data Range for Work Day		Wind Direction	NNE	Relative Humidity (%)	64.0 - 87.0	Daily Rain Total (in)	0.01	Readings in the summary table and graphs below are the reported downwind concentrations.
Temperature (°F)	67.0 - 75.0	Wind Speed (MPH)	2.8 - 8.1	Barometer (inHg)	30.10 - 30.10	Avg. Dew Point Temp (°F)	62.5	

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	34.6	143.3	10:06	0.0	0.0	7:36
Downwind	26.5	93.1	10:51	0.0	0.0	7:36



Air Monitoring Notes:

Weather Notes:



Wednesday, September 18, 2024				
Number of Instances Where Downwind Particulates				0
Number of Comparable Data Points =				39
Start Time:				7:36
End Time:				17:06
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	33.2	7:36	30.3	-
7:51	31.8	7:51	34.2	-
8:06	31.4	8:06	26.1	-
8:21	33.3	8:21	25.4	-
8:36	31.0	8:36	27.4	-
8:51	23.1	8:51	31.8	-
9:06	23.9	9:06	27.2	-
9:21	21.9	9:21	27.8	-
9:36	29.9	9:36	24.3	-
9:51	37.0	9:51	25.3	-
10:06	143.3	10:06	23.0	-
10:21	31.2	10:21	21.7	-
10:36	31.8	10:36	20.9	-
10:51	33.6	10:51	93.1	-
11:06	28.7	11:06	28.7	-
11:21	25.1	11:21	32.6	-
11:36	33.2	11:36	29.4	-
11:51	34.0	11:51	24.7	-
12:06	29.3	12:06	31.4	-
12:21	28.9	12:21	19.1	-
12:36	24.1	12:36	25.8	-
12:51	29.5	12:51	24.8	-
13:06	41.8	13:06	21.6	-
13:21	34.3	13:21	23.5	-
13:36	30.4	13:36	23.7	-
13:51	30.1	13:51	24.5	-
14:06	28.0	14:06	23.1	-
14:21	37.7	14:21	23.9	-
14:36	35.6	14:36	23.4	-
14:51	33.6	14:51	22.4	-
15:06	38.1	15:06	20.1	-
15:21	33.6	15:21	20.5	-
15:36	38.3	15:36	18.5	-
15:51	42.1	15:51	21.2	-
16:06	37.4	16:06	18.6	-
16:21	32.5	16:21	21.8	-
16:36	33.5	16:36	20.2	-
16:51	25.4	16:51	30.3	-
17:06	28.3	17:06	23.1	-

Wednesday, September 18, 2024				
Number of Instances Where Downwind VOCs Exceeds				0
Number of Comparable Data Points =				0
Start Time:				7:36
End Time:				17:06
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	-
14:51	0.0	14:51	0.0	-
15:06	0.0	15:06	0.0	-
15:21	0.0	15:21	0.0	-
15:36	0.0	15:36	0.0	-
15:51	0.0	15:51	0.0	-
16:06	0.0	16:06	0.0	-
16:21	0.0	16:21	0.0	-
16:36	0.0	16:36	0.0	-
16:51	0.0	16:51	0.0	-
17:06	0.0	17:06	0.0	-

Project:	450 Union Remediation	Project No.:	24-071	Date:	09/18/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Wednesday
Owner:	2201 Union LLC	Superintendent:	Rick McKay	Days on Site:	31
Manager:	Trae Deri	Engineer:	Srujan Prasad	Shift Times:	7:00-17:00

Weather:			
Low: 67	Cloud Cover: Sunny	Wind: 5-10MPH	
High: 76	Precipitation: 0"	Direction: ENE	
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. - 0727, GSI started drilling column A1 and completed to depth at 0823, Following the completion of the column, GSI collected a sample at 30ftbgs and casted the material into cylinders. - 0900, GSI received 315 gallons of dyed diesel fuel. - 0919, GSI started drilling column B1 and completed to depth at 1024. - 1030 to 1130, GSI moved the swell materials towards the west of the jobsite casting poly-lined using Kobelco 300 excavator. - 1230 to 1500, GSI received a load of PC and slag each. - 1305, GSI started drilling columns A2, B2 and completed the last column of the day A3 to depth at 1649. - 1700 to 1730, GSI washed out the lines and Kobelco 210 excavator moved crane mats and managed ISS spoils. - 1715 to 1745, 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: Good Enough Mindset Safety Talk.			

Rick McKay
 Foreman/Superintendent

09/18/24
 Date

Project:	450 Union Remediation				Project No.:	24-071		Date:	09/18/24	
Client:	2201 Union LLC				Location:	Brooklyn, NY		Day of Week:	Wednesday	
Owner:	2201 Union LLC				Superintendent:	Rick McKay		Days on Site:	31	
Manager:	Trae Deri				Engineer:	Srujan Prasad		Shift Times:	7:00-17:00	
Production:						Completion:				
Today: 443.72 CY 5 Columns						20% Columns				
To-Date: 899.32 CY 9 Columns						20.44% CY				
Materials Received:										
Material		Unit	Today			Total		Notes		
Slag- Grade 120		Ton	26			122				
Portland Cement - Type 1L		Ton	25			70				
Disposal Trucks		N/A	0			18				
Hours	Equipment		Task			Hours	Employees On Site		Trade	
10.5	Offroad Forklift		Material Handling				Trae Deri		PM	
10.5	185 Air Compressor		ISS Mixing			11.0	Rick McKay		SUPT	
10.5	Conex box(1)		Storage			11.0	Srujan Prasad		ENG	
10.5	300kw Generator		Batch Plant			11.0	Eric Shannon		DRILL	
10.5	Lo-pro silo(2)		Cement Storage			11.0	Miguel Maldonado		LAB	
10.5	Flash mixers (2)		Batch Plant			10.5	Daniel Santos		BPO	
10.5	Moyno pump(2)		Batch Plant			11.0	Peter Liota		OP	
10.5	Delmag Hydraulic Rig		ISS Mixing			10.5	Steven Reda		LAB	
10.5	Manlift(1)		Maintenance			10.5	Louis Passannante		OP	
10.5	Kobelco 210 Excavaor		ISS Mixing			10.5	Christhopher Ramdial		OILER	
10.5	250kw Generator		Batch Plant							
10.5	Kobelco 300 Excavator									
126	TOTAL DAY HOURS					97	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

09/18/24

Date



IN-SITU SOIL STABILIZATION - AUGER MIXING
COLUMN LOG

Comments:
- GSI sampled column A1 at a depth of 30 feet.

Rick McKay
Foreman/Superintendent

SIGNED: _____
Client QC Manager

Project:	450 Union Remediation	Project No.:	24-071	Date:	09/18/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Wednesday
Owner:	2201 Union LLC	Superintendent:	Rick McKay	Days on Site:	31
Manager:	Trae Deri	Engineer:	Srujan Prasad	Shift Times:	7:00-17:00

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

Grout Testing

Date	Time	Water: Cement Ratio	Mud Balance S.G.
9/18/2024	8:15	1.0:1	1.51
9/18/2024	10:45	1.0:1	1.51
9/18/2024	13:30	1.0:1	1.51

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	Date: 9/18/2024
Client: 2201 Union LLC	Location: Brooklyn, NY	Day of Week: Wednesday
Owner: 2201 Union LLC	Superintendent: Rick McKay	Days on Site: 31
Manager: Trae Deri	Engineer: Srujan Prasad	Shift Times: 7:00-17:00

IN-SITU SOIL STABILIZATION - AUGER MIXING SAMPLE TESTING RESULTS

Project Specifications:

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

Lab Results

Date	Time	Sample ID	Depth (bgs)	Number of cylinders casted		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					

Comments:

Rick McKay

Foreman/Superintendent

Client QC Manager



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

[illegible]

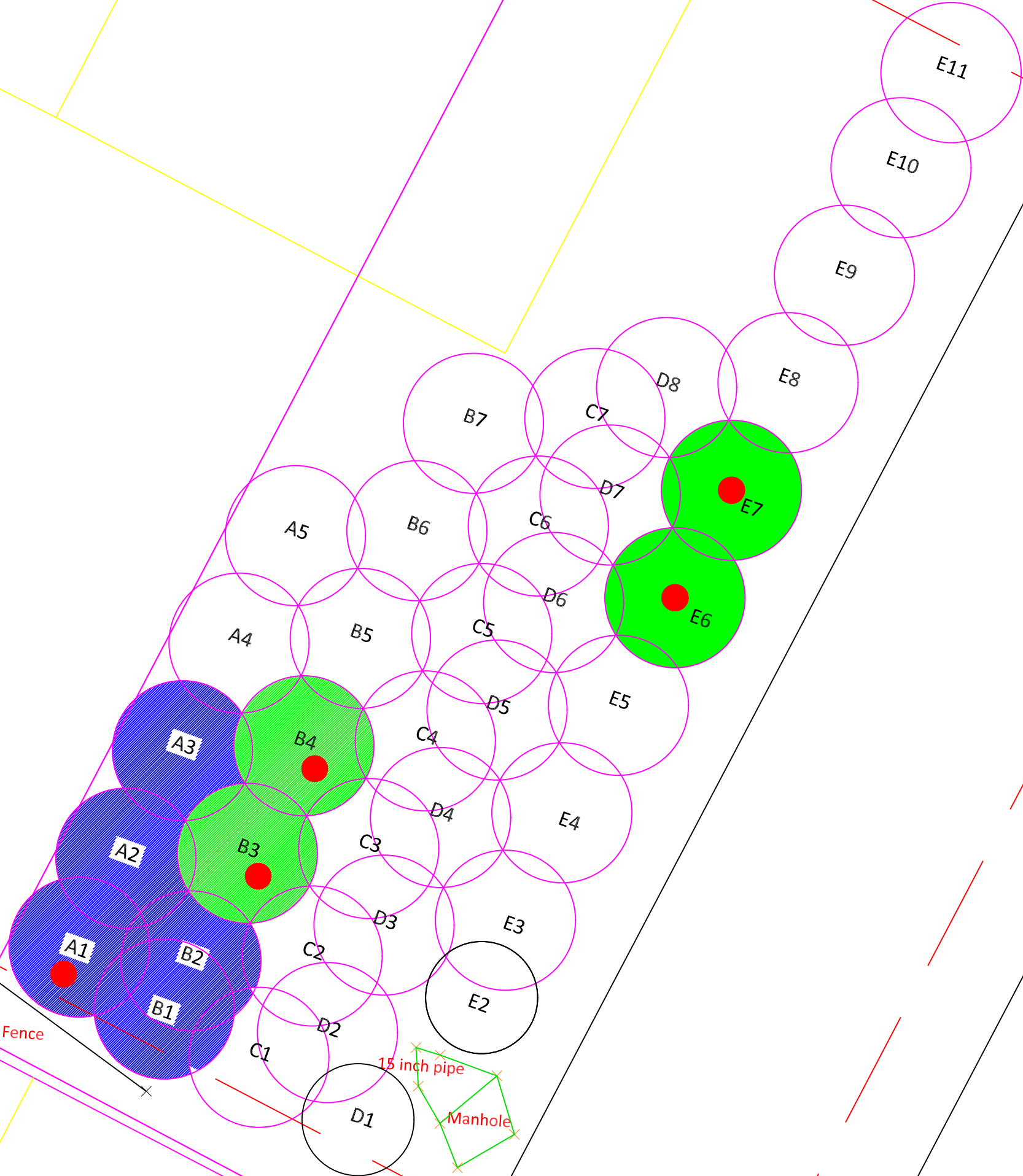


1250 Fifth Avenue, New Kensington, PA 15068
Tel: 724-335-7273 Fax: 724-335-7271
www.geo-solutions.com

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.			
				REV		Appr'd					
C				Revised	DATE	Revised	Appr'd	DATE	Appr'd		

Brooklyn, NY Auger ISS Report



Job Site Data

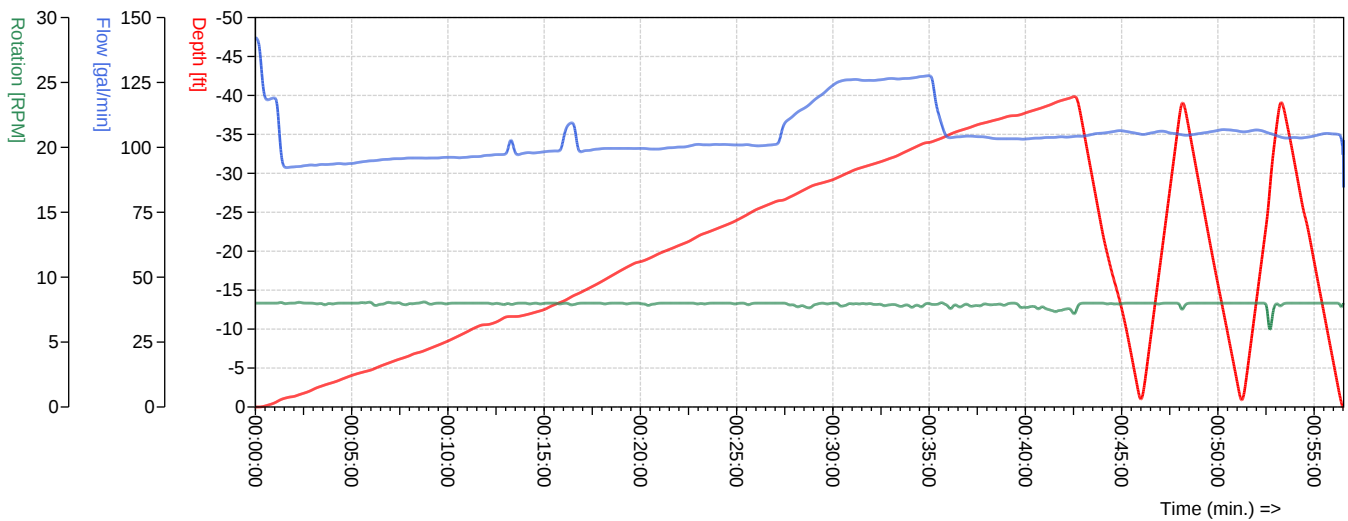
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: A1

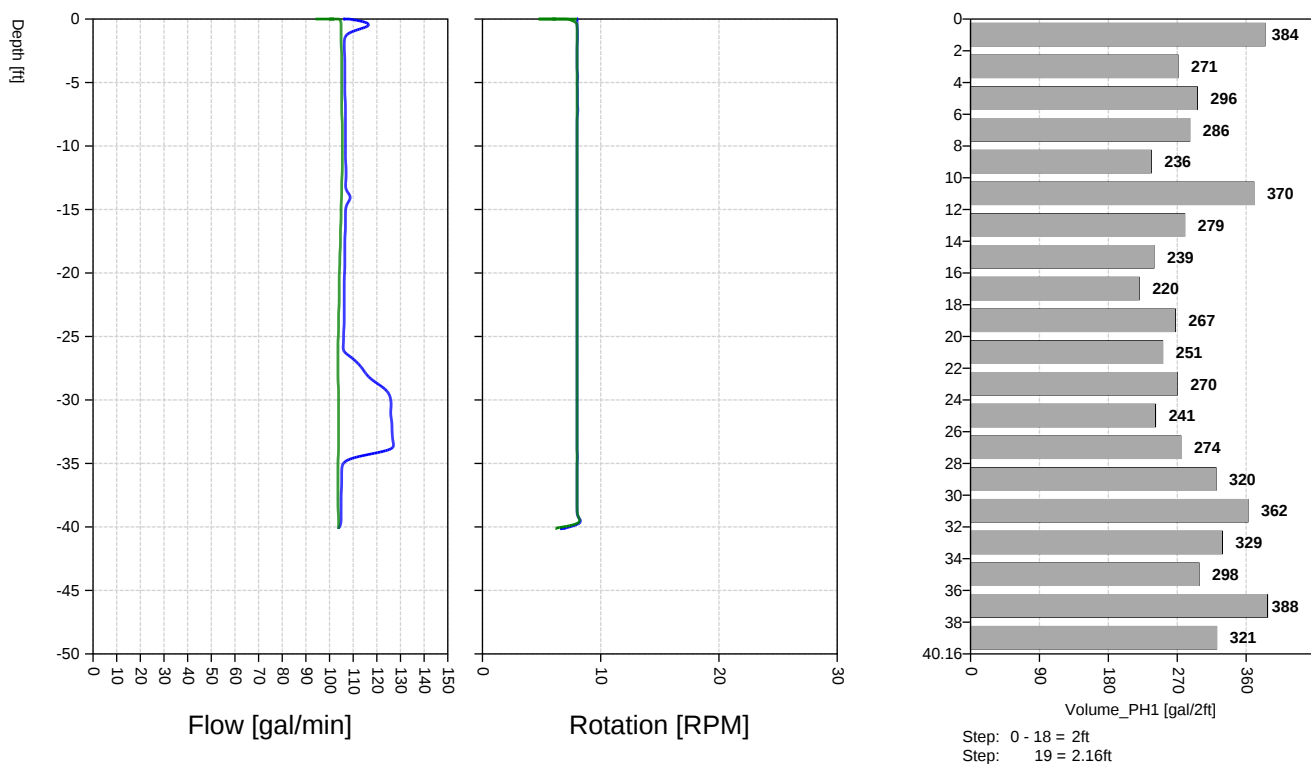
Date: 9/18/2024
Start of production: 7:27:02 AM
End of production: 8:23:33 AM
Total time: 00:56:31
Pause time: 00:00:00

Pile length: 40.16 ft
Total Grout: 5915 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment

Brooklyn, NY Auger ISS Report



Job Site Data

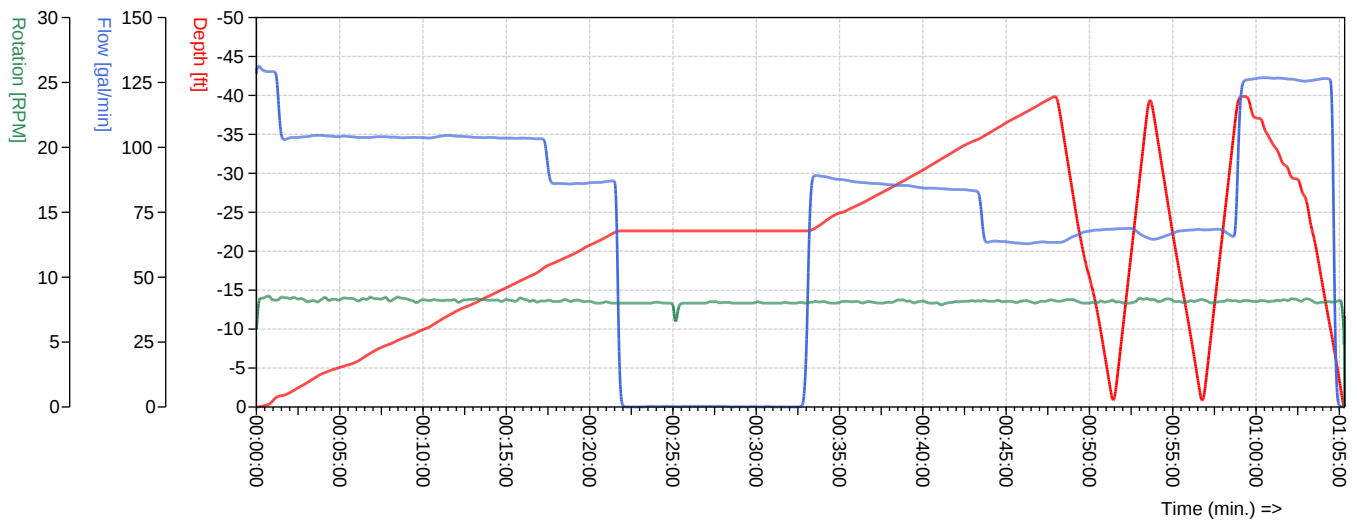
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: B1

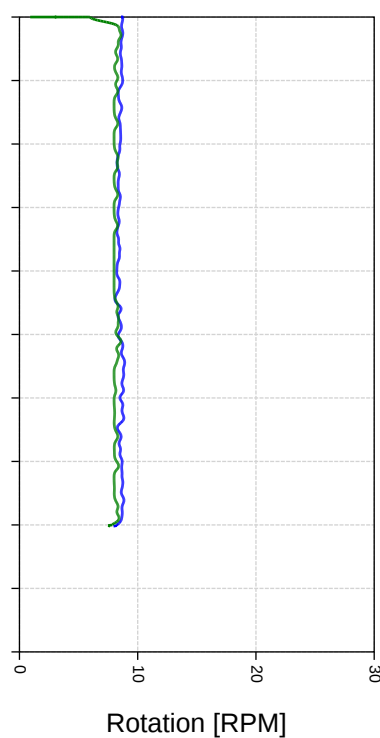
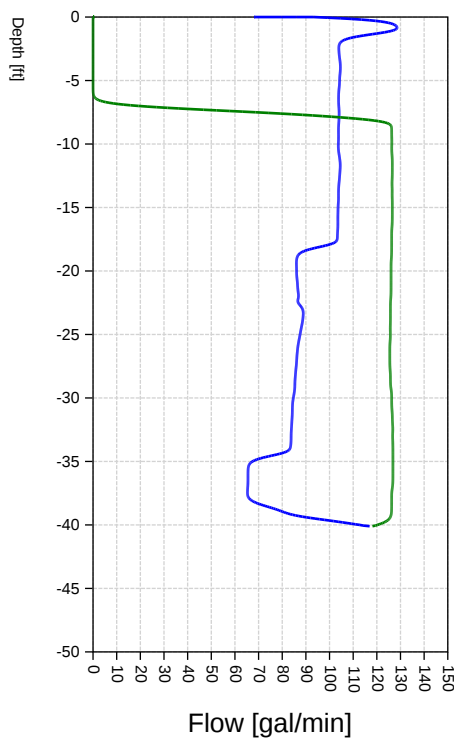
Date: 9/18/2024
Start of production: 9:19:18 AM
End of production: 10:24:35 AM
Total time: 01:05:17
Pause time: 00:00:00

Pile length: 40.12 ft
Total Grout: 4853 gal
Strokes: 3

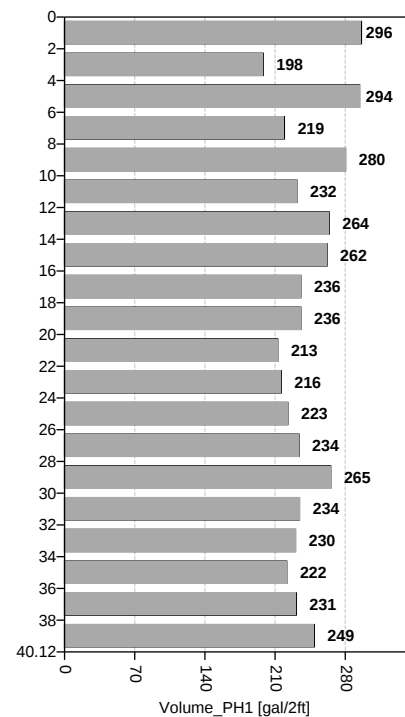
Parameters vs. Time



Parameters vs. Depth



Downwards Upwards



Step: 0 - 18 = 2ft
Step: 19 = 2.12ft

Comment

Brooklyn, NY Auger ISS Report



Job Site Data

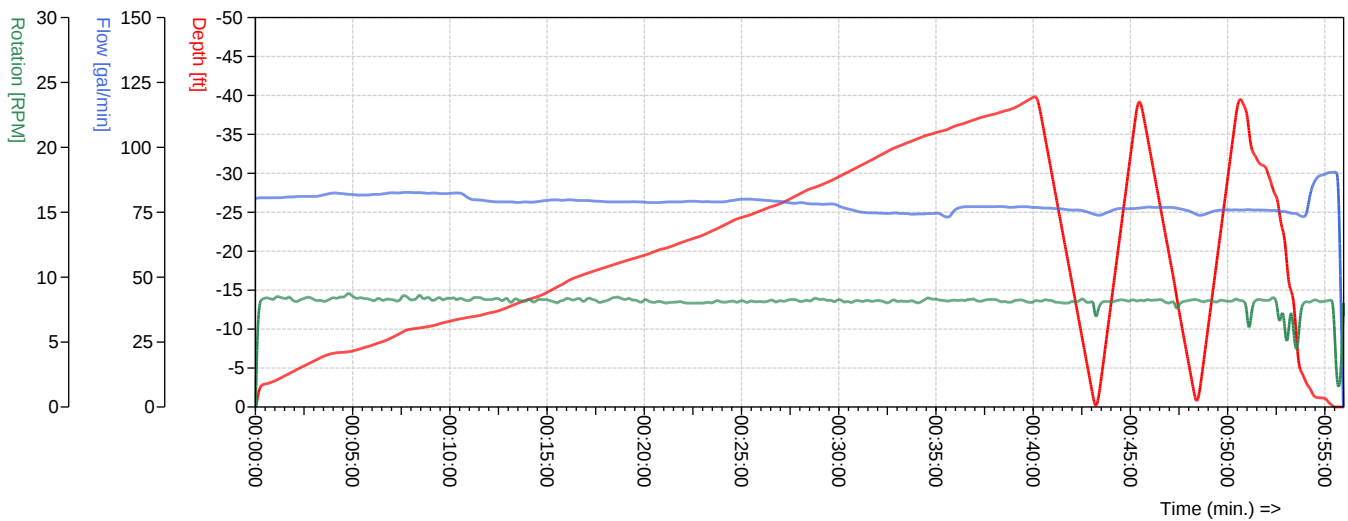
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: A2

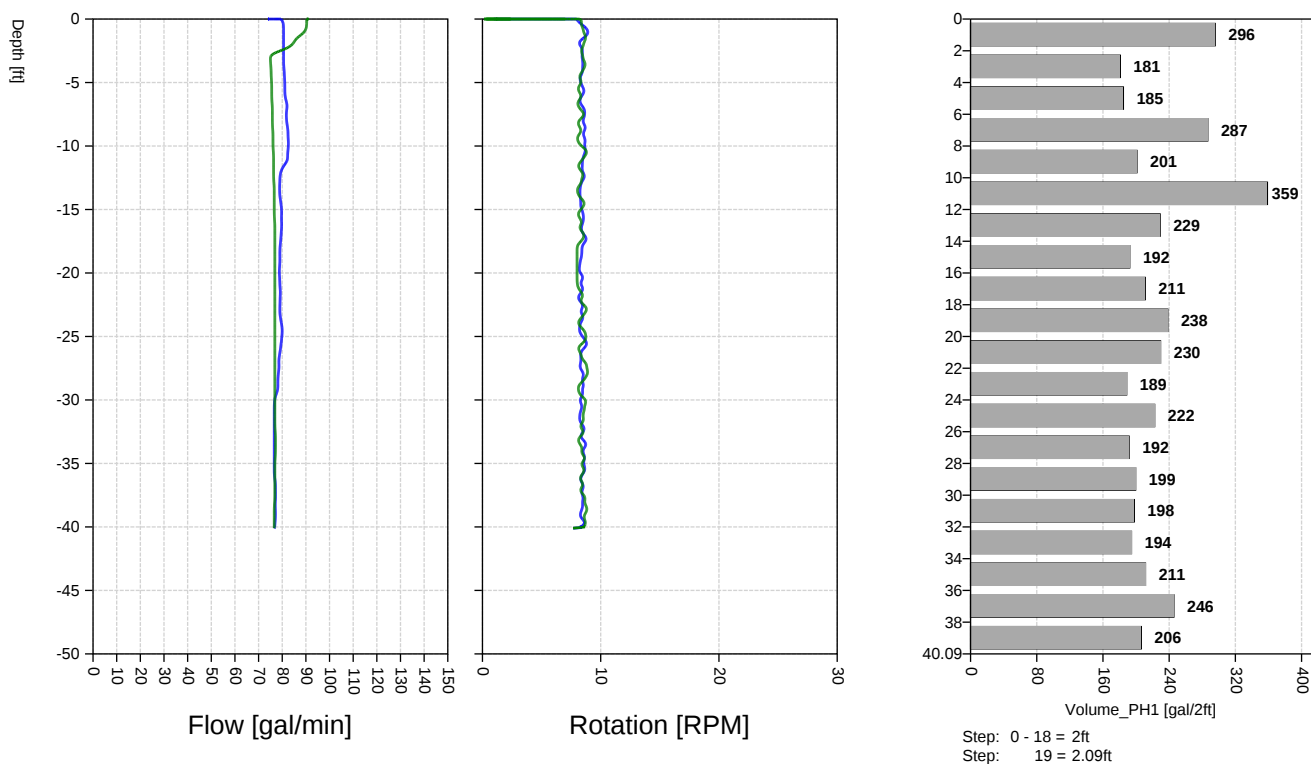
Date: 9/18/2024
Start of production: 1:05:46 PM
End of production: 2:01:43 PM
Total time: 00:55:57
Pause time: 00:00:00

Pile length: 40.09 ft
Total Grout: 4378 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment

Brooklyn, NY Auger ISS Report



Job Site Data

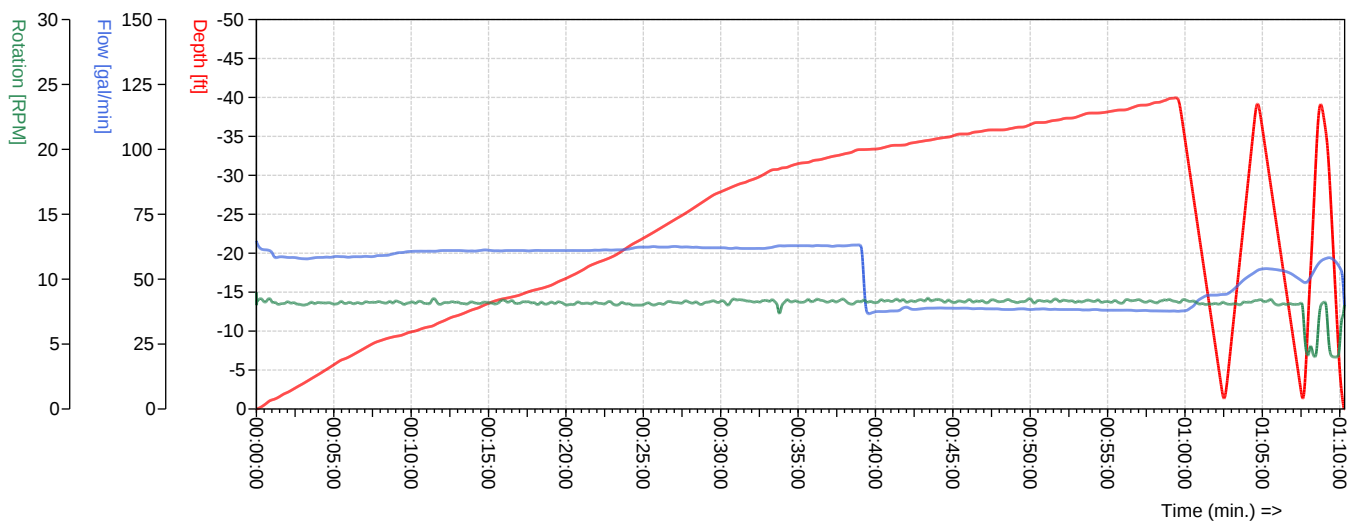
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: B2

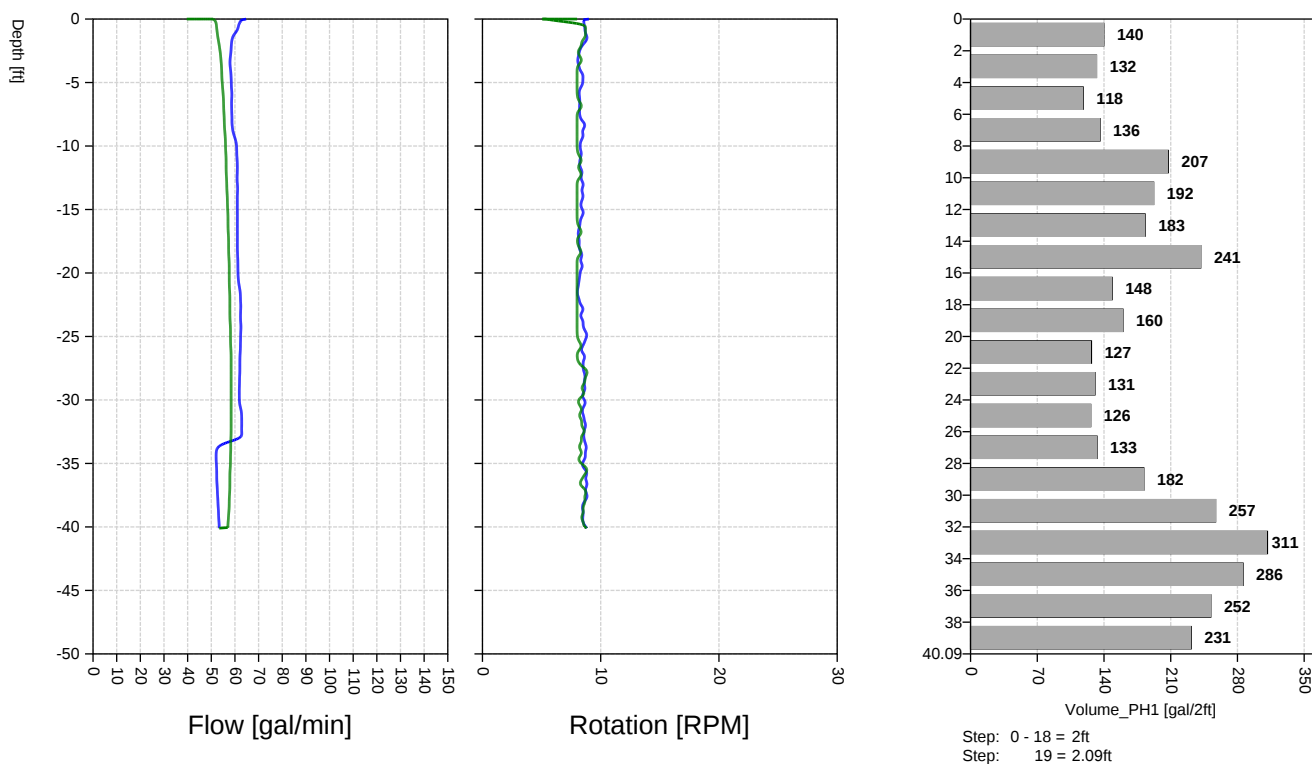
Date: 9/18/2024
Start of production: 2:19:15 PM
End of production: 3:29:33 PM
Total time: 01:10:18
Pause time: 00:00:00

Pile length: 40.09 ft
Total Grout: 3702 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment

Brooklyn, NY Auger ISS Report



Job Site Data

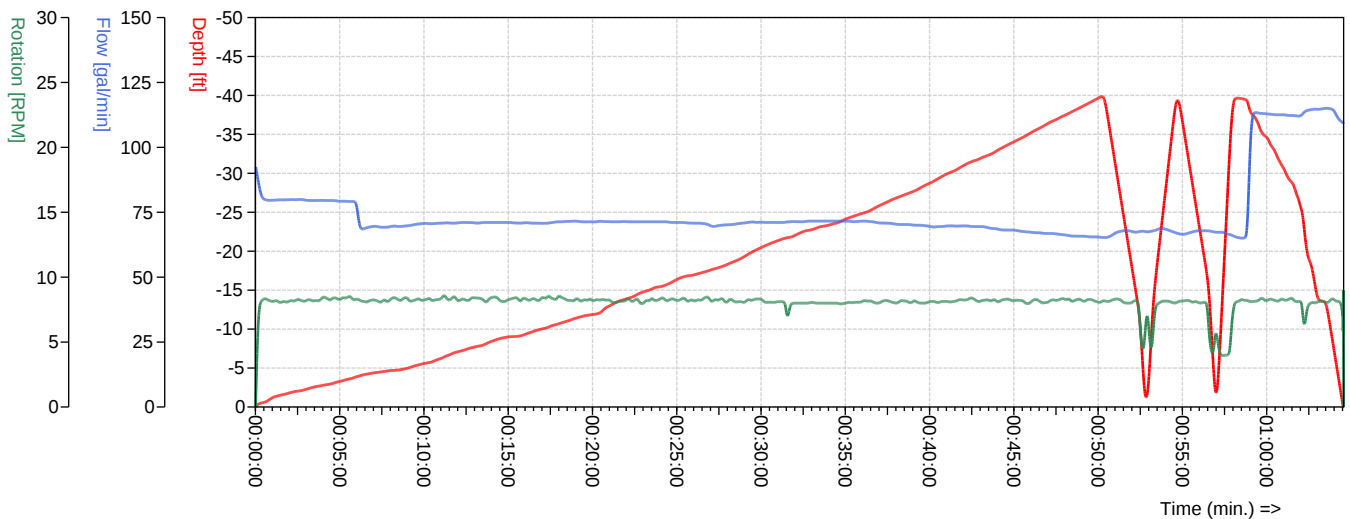
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: A3

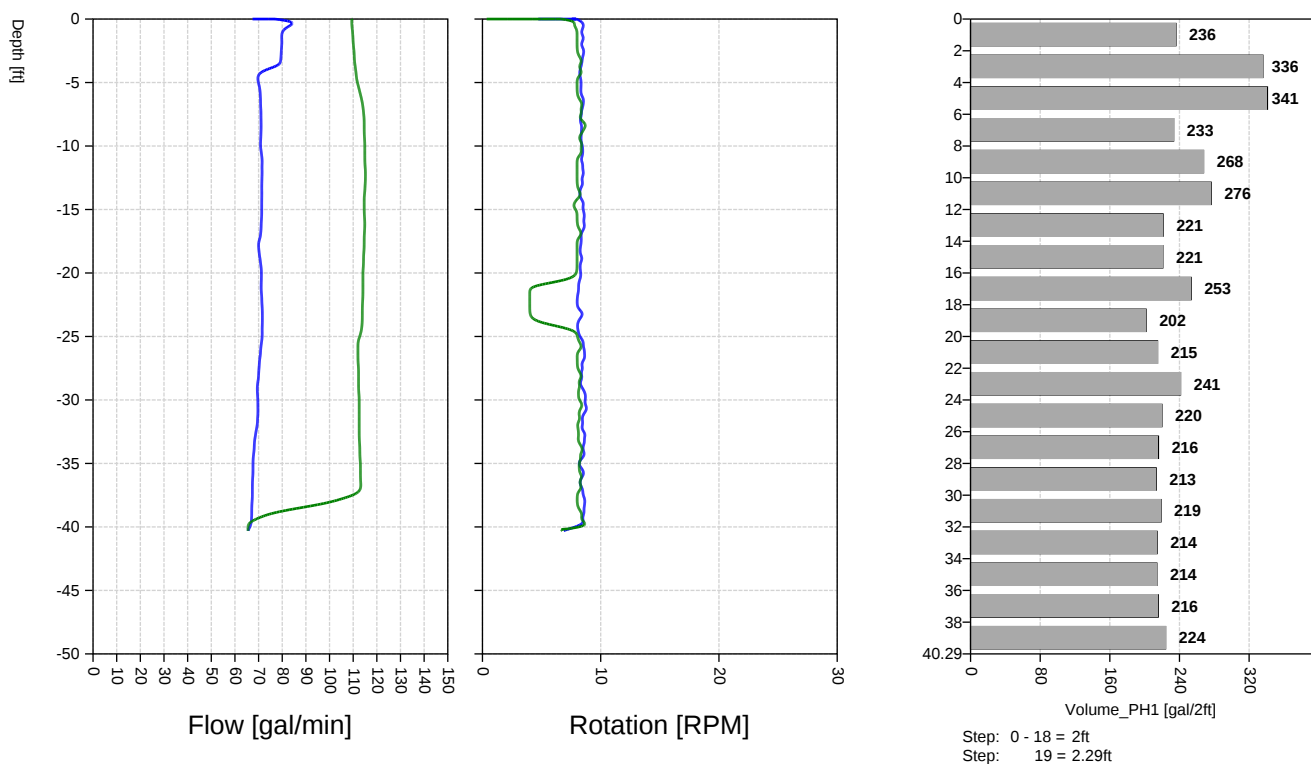
Date: 9/18/2024
Start of production: 3:44:50 PM
End of production: 4:49:23 PM
Total time: 01:04:33
Pause time: 00:00:00

Pile length: 40.29 ft
Total Grout: 4802 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment