

## DAILY STATUS REPORT

Prepared By: Thomas Giordano

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

<b>NYSDEC BCP Site No:</b>	C224219	<b>Date:</b>	9/23/2024
<b>Project Name:</b>	450 Union Street, Brooklyn, NY		

<b>Consultant:</b> Vektor Consultants – Antonio Cardenas, Riley Farbstain, and Ezgi Karayel  <b>Visitors:</b> WSP – Monica Pula	<b>Personnel On-Site:</b> 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: D1, E2, D8, E8, and C7. 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.
- 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: 0.0179 mg/m<sup>3</sup>

Highest Levels:

PID: 0.0 ppm      Dust: 0.114 mg/m<sup>3</sup>

- 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 3:12 PM to 3:27 PM (Max. 0.114 mg/m<sup>3</sup>) due to the enclosure's proximity to the grout delivery truck. The elevated readings were not due to intrusive work. GSI applied dust suppression with water and particulate readings returned to background levels.
- Elevated particulate readings were observed at the Downwind CAMP from 12:57 to 1:12 PM (Max. 0.111 mg/m<sup>3</sup>) 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.

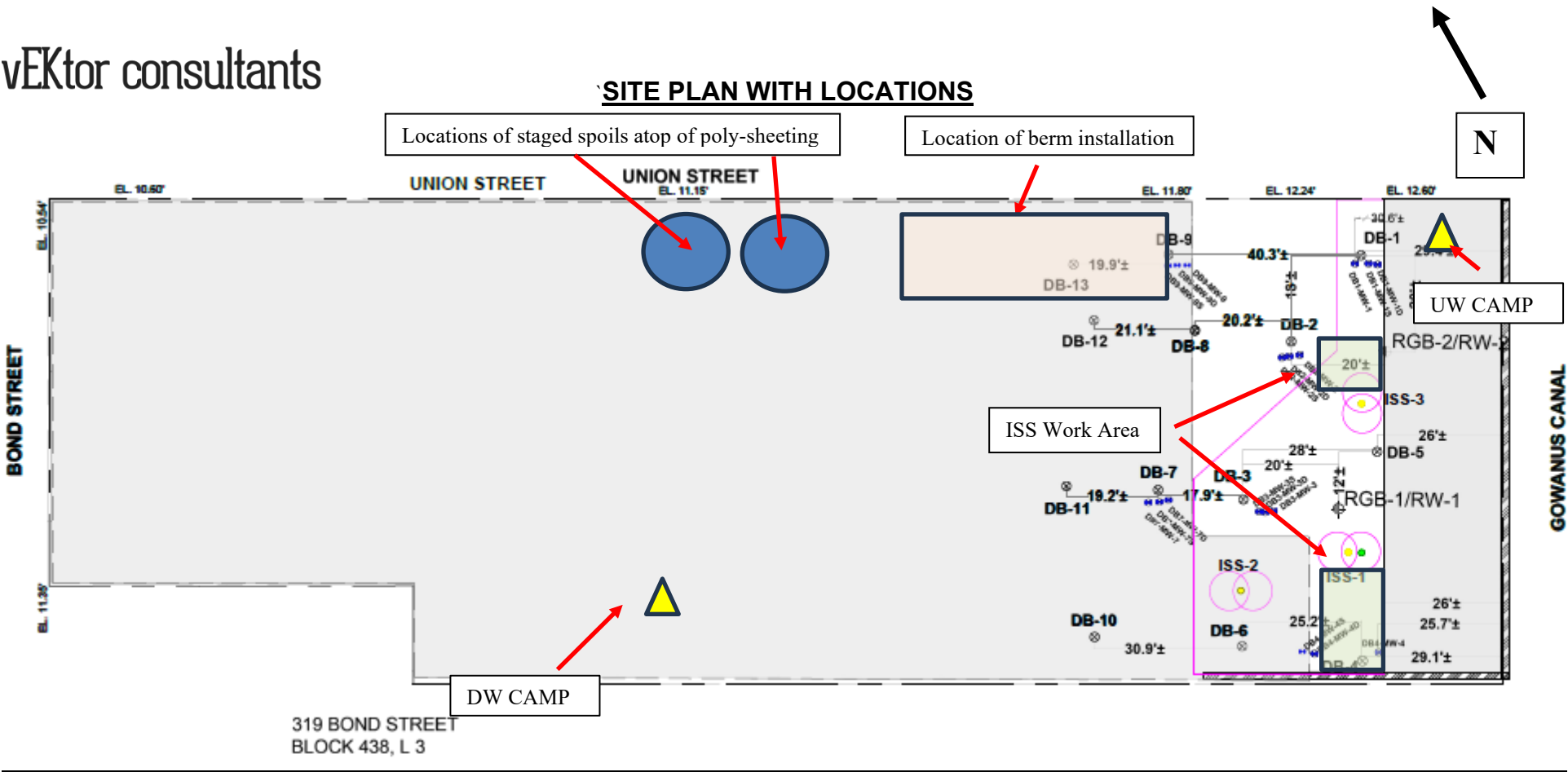
### Problems Encountered

- NYSDEC received a community complaint regarding odors from the ISS operations, spoils management and

foaming on-site after hours. Vektor, NYSDEC and the remedial contractor will discuss actions to be taken the following workday to ensure that odors are being proactively addressed.

**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 E8 with application of foam to mitigate odors, facing south.



Photo 2:

View of GSI introducing 9% mixture at column/cell E2, facing southwest.





Photo 3:  
View of GSI introducing 9% mixture  
at column/cell C7 with application of  
foam to mitigate odors, facing west.



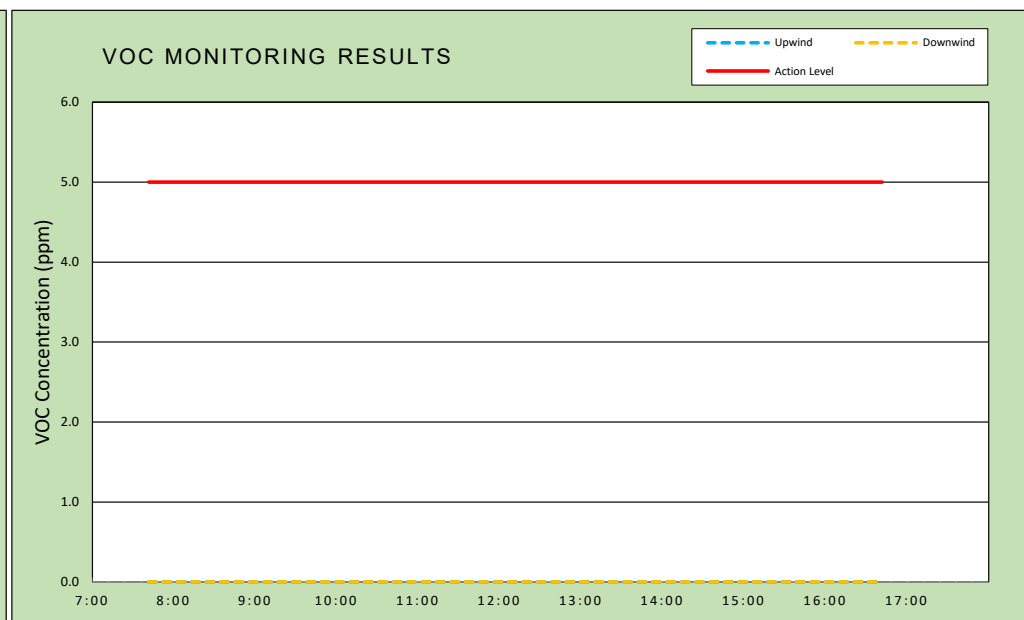
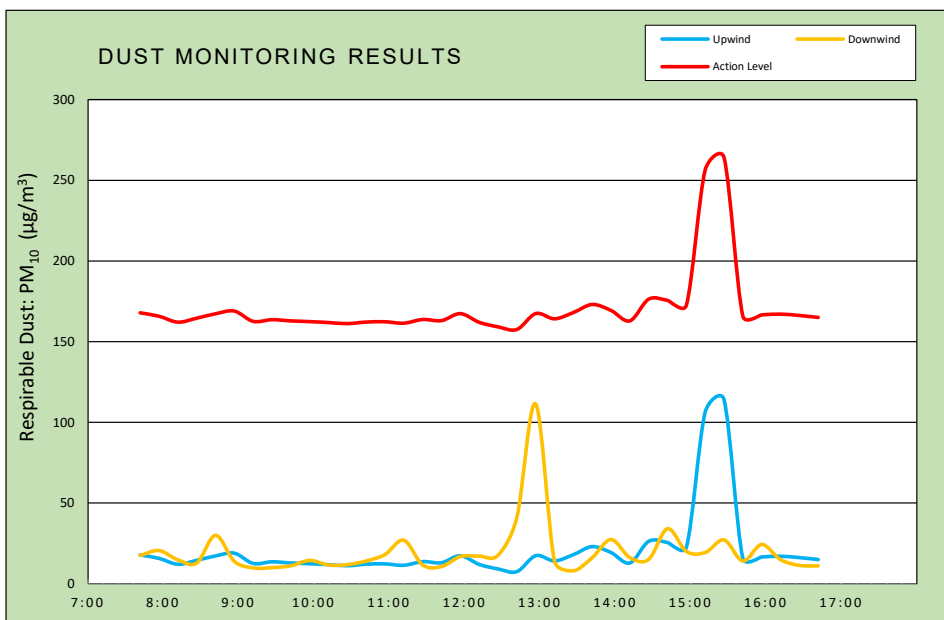
Photo 4:  
GSI applying foam on top of spoils  
within berm, facing north.



vEKtor consultants	<b>DAILY AIR MONITORING REPORT</b> <b>450 Union Street</b> <b>Brooklyn, New York</b>	09/23/2024	
		Rev. No. 0	Page 1 of 2
		Project Number:	
		Dust Action Level	150 µg/m <sup>3</sup>
37 W. 37th St, 6th Floor - New York, NY		VOC Action Level	5 ppm

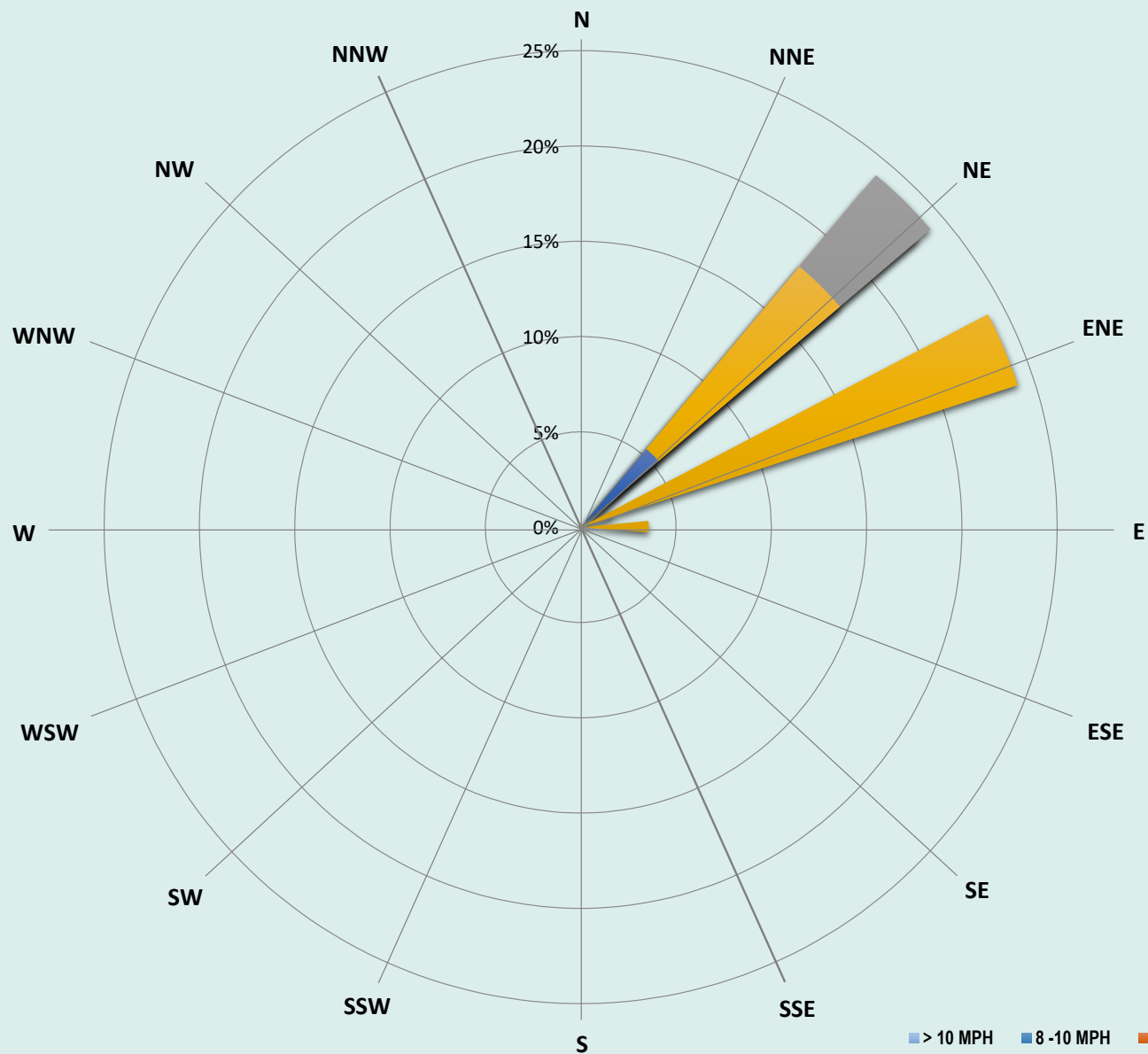
Weather Data Range for Work Day		Wind Direction	NE	Relative Humidity (%)	52.0 - 81.0	Daily Rain Total (in)	0.02	Readings in the summary table and graphs below are the reported downwind concentrations.
Temperature (°F)	61.0 - 69.0	Wind Speed (MPH)	1.8 - 8.0	Barometer (inHg)	30.10 - 30.10	Avg. Dew Point Temp (°F)	53.5	

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	20.5	114.0	15:27	0.0	0.0	7:42
Downwind	19.8	111.4	12:57	0.0	0.0	7:42



**Air Monitoring Notes:**

**Weather Notes:**



vEKtor - 450 Union St  
Air Monitoring  
09/23/24  
Wind Speed & Direction  
Daily Readings

Monday, September 23, 2024				
Number of Instances Where Downwind Particulates				0
Number of Comparable Data Points =				37
Start Time:				7:42
End Time:				16:42
PARTICULATE DATA				
Upwind		Downwind		Exceeds Particulate Alarm Limit
Time	15-Min Avg Concentration (ug/m <sup>3</sup> )	Time	15-Min Avg Concentration (ug/m <sup>3</sup> )	
7:42	17.9	7:42	17.6	-
7:57	15.8	7:57	20.6	-
8:12	12.1	8:12	14.9	-
8:27	14.6	8:27	12.9	-
8:42	17.3	8:42	30.0	-
8:57	19.0	8:57	13.9	-
9:12	12.6	9:12	9.8	-
9:27	13.6	9:27	10.0	-
9:42	12.9	9:42	11.2	-
9:57	12.4	9:57	14.5	-
10:12	11.9	10:12	11.7	-
10:27	11.2	10:27	11.8	-
10:42	12.2	10:42	14.1	-
10:57	12.3	10:57	18.1	-
11:12	11.5	11:12	27.0	-
11:27	13.8	11:27	11.6	-
11:42	13.1	11:42	10.7	-
11:57	17.4	11:57	16.9	-
12:12	12.0	12:12	17.1	-
12:27	9.2	12:27	17.7	-
12:42	7.6	12:42	41.1	-
12:57	17.4	12:57	111.4	-
13:12	14.2	13:12	14.0	-
13:27	18.1	13:27	8.1	-
13:42	23.1	13:42	16.2	-
13:57	19.4	13:57	27.5	-
14:12	12.9	14:12	16.2	-
14:27	26.3	14:27	15.1	-
14:42	25.6	14:42	34.1	-
14:57	22.6	14:57	20.0	-
15:12	106.5	15:12	19.4	-
15:27	114.0	15:27	27.2	-
15:42	15.8	15:42	14.1	-
15:57	16.6	15:57	24.4	-
16:12	17.1	16:12	15.0	-
16:27	16.2	16:27	11.4	-
16:42	15.0	16:42	11.1	-



Monday, September 23, 2024				
Number of Instances Where Downwind VOCs Exceeds				0
Number of Comparable Data Points =				0
Start Time:				7:42
End Time:				16:42
PID DATA				
Upwind		Downwind		Exceeds VOC Alarm Limit
Time	15-Min Avg Concentration (ppm)	Time	15-Min Avg Concentration (ppm)	
7:42	0.0	7:42	0.0	-
7:57	0.0	7:57	0.0	-
8:12	0.0	8:12	0.0	-
8:27	0.0	8:27	0.0	-
8:42	0.0	8:42	0.0	-
8:57	0.0	8:57	0.0	-
9:12	0.0	9:12	0.0	-
9:27	0.0	9:27	0.0	-
9:42	0.0	9:42	0.0	-
9:57	0.0	9:57	0.0	-
10:12	0.0	10:12	0.0	-
10:27	0.0	10:27	0.0	-
10:42	0.0	10:42	0.0	-
10:57	0.0	10:57	0.0	-
11:12	0.0	11:12	0.0	-
11:27	0.0	11:27	0.0	-
11:42	0.0	11:42	0.0	-
11:57	0.0	11:57	0.0	-
12:12	0.0	12:12	0.0	-
12:27	0.0	12:27	0.0	-
12:42	0.0	12:42	0.0	-
12:57	0.0	12:57	0.0	-
13:12	0.0	13:12	0.0	-
13:27	0.0	13:27	0.0	-
13:42	0.0	13:42	0.0	-
13:57	0.0	13:57	0.0	-
14:12	0.0	14:12	0.0	-
14:27	0.0	14:27	0.0	-
14:42	0.0	14:42	0.0	-
14:57	0.0	14:57	0.0	-
15:12	0.0	15:12	0.0	-
15:27	0.0	15:27	0.0	-
15:42	0.0	15:42	0.0	-
15:57	0.0	15:57	0.0	-
16:12	0.0	16:12	0.0	-
16:27	0.0	16:27	0.0	-
16:42	0.0	16:42	0.0	-

<b>Project:</b>	450 Union Remediation	<b>Project No.:</b>	24-071	<b>Date:</b>	09/23/24
<b>Client:</b>	2201 Union LLC	<b>Location:</b>	Brooklyn, NY	<b>Day of Week:</b>	Monday
<b>Owner:</b>	2201 Union LLC	<b>Superintendent:</b>	Rick McKay	<b>Days on Site:</b>	34
<b>Manager:</b>	Trae Deri	<b>Engineer:</b>	Srujan Prasad	<b>Shift Times:</b>	7:00-17:00

<b>Weather:</b>			
<b>Low:</b>	60	<b>Cloud Cover:</b>	Cloudy
<b>High:</b>	69	<b>Precipitation:</b>	0"
		<b>Wind:</b>	5-10MPH
		<b>Direction:</b>	ESE
<b>Description of Work Activities:</b>			
<ul style="list-style-type: none"> <li>- 0700 to 0715, GSI held a tailgate safety meeting and discussed the day's planned activities with site personnel.</li> <li>- 0715 to 0730, Prepped batch plant for production of grout and staked columns.</li> <li>- 0749, GSI started drilling columns E8 and completed to depth at 0901.</li> <li>- 0915 to 1000, GSI swapped Augers from 10' to 8'.</li> <li>- 1022, GSI started drilling column D1 and completed to depth at 1127, Following the completion of the column, GSI collected a sample at 31 ftbgs and casted the material into cylinders.</li> <li>- 1230 to 1500, GSI received a load of slag.</li> <li>- 1225, GSI started drilling columns E2 and completed to depth at 1334.</li> <li>- 1345 to 1430, GSI swapped Augers from 8' to 10'.</li> <li>- 1225, GSI started drilling columns D8 and completed the last column of the day C7 to depth at 1704.</li> <li>- 0800 to 1700, GSI used 2 barrels of foam.</li> <li>- 1710 to 1745, GSI washed out the lines and Kobelco 210 excavator moved crane mats and managed ISS spoils.</li> <li>- 1700 to 1800, GSI moved the swell materials towards west of the jobsite casting poly-lined using Kobelco 300 excavator.</li> <li>- 1800, All GSI personnel offsite.</li> </ul>			
<b>Conversation with Client/Inspector:</b>			
<b>Production Delays:</b>			
<b>Safety Topics:</b>			
Discussed: Three Self-centered Reasons to Work Safely.			

Rick McKay  
 Foreman/Superintendent

09/23/24  
 Date

<b>Project:</b>	450 Union Remediation			<b>Project No.:</b>	24-071		<b>Date:</b>	09/23/24	
<b>Client:</b>	2201 Union LLC			<b>Location:</b>	Brooklyn, NY		<b>Day of Week:</b>	Monday	
<b>Owner:</b>	2201 Union LLC			<b>Superintendent:</b>	Rick McKay		<b>Days on Site:</b>	34	
<b>Manager:</b>	Trae Deri			<b>Engineer:</b>	Srujan Prasad		<b>Shift Times:</b>	7:00-17:00	
<b>Production:</b>					<b>Completion:</b>				
<b>Today:</b> 428.64 CY 5 Columns					<b>50% Columns</b>				
<b>To-Date:</b> 2,179.68 CY 22 Columns					<b>49.54% CY</b>				
<b>Materials Received:</b>									
<b>Material</b>		<b>Unit</b>	<b>Today</b>		<b>Total</b>		<b>Notes</b>		
Slag- Grade 120		Ton	25		253				
Portland Cement - Type 1L		Ton	0		116				
Disposal Trucks		N/A	0		18				
<b>Hours</b>	<b>Equipment</b>		<b>Task</b>		<b>Hours</b>	<b>Employees On Site</b>		<b>Trade</b>	
11.0	Offroad Forklift		Material Handling		11.0	Trae Deri		PM	
11.0	185 Air Compressor		ISS Mixing		11.5	Rick McKay		SUPT	
11.0	Conex box(1)		Storage		11.5	Srujan Prasad		ENG	
11.0	300kw Generator		Batch Plant		11.0	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		11.0	Christhopher Ramdial		OILER	
11.0	250kw Generator		Batch Plant						
11.0	Kobelco 300 Excavator								
132	TOTAL DAY HOURS				111	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 Opearator

*Rick McKay*

Foreman/Superintendent

09/23/24

Date

<b>Project:</b>	450 Union Remediation	<b>Project No:</b>	24-071	<b>Date:</b>	09/23/24
<b>Client:</b>	2201 Union LLC	<b>Location:</b>	Brooklyn, NY	<b>Day of Week:</b>	Monday
<b>Owner:</b>	2201 Union LLC	<b>Superintendent</b>	Rick McKay	<b>Days on Site:</b>	34
<b>Manager:</b>	Trae Deri	<b>Engineer:</b>	Srujan Prasad	<b>Shift Times:</b>	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 <sup>2</sup>	Effective Area FT <sup>2</sup>	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	%	
9/23/2024	E8	7:49	9:01	12.0	-28.3	40.3	3	10	2	9	69.6	103.84	4,638	4,980	9.0%	20,770	6.4%	10,385	3.2%	1.0
9/23/2024	D1	10:22	11:27	12.0	-28.0	40.0	3	8	0	0	50.3	74.52	3,329	3,441	9.0%	14,352	6.2%	7,176	3.1%	1.0
9/23/2024	E2	12:25	13:34	12.0	-28.1	40.1	3	8	0	0	50.3	74.58	3,331	3,455	9.0%	14,410	6.2%	7,205	3.1%	1.0
9/23/2024	D8	14:20	15:47	12.0	-28.3	40.3	3	10	2	9	69.6	103.76	4,635	5,150	9.0%	21,479	6.7%	10,740	3.3%	1.0
9/23/2024	C7	3:53	17:04	12.0	-28.2	40.2	3	10	2	30	48.3	71.94	3,213	4,286	9.0%	17,876	8.0%	8,938	4.0%	1.0
												Production Today	428.64 CY	Material Used Today		44.4	Tons	22.2	Tons	
												Production To-Date	2179.68 CY	Material Used To-Date		44.4	Tons	22.2	Tons	

 Comments:  
 - GSI sampled column D1 at a depth of 31 feet.

Discussed:

 Rick McKay  
 Foreman/Superintendent

 SIGNED: \_\_\_\_\_  
 Client QC Manager

<b>Project:</b>	450 Union Remediation	<b>Project No.:</b>	24-071	<b>Date:</b>	09/23/24
<b>Client:</b>	2201 Union LLC	<b>Location:</b>	Brooklyn, NY	<b>Day of Week:</b>	Monday
<b>Owner:</b>	2201 Union LLC	<b>Superintendent:</b>	Rick Mckay	<b>Days on Site:</b>	34
<b>Manager:</b>	Trae Deri	<b>Engineer:</b>	Srujan Prasad	<b>Shift Times:</b>	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.
9/23/2024	8:05	1.0:1	1.51
9/23/2024	11:45	1.0:1	1.51
9/23/2024	13:10	1.0:1	1.51

#### Calibration Log

Device	Date	Calibration (Y/N)	NOTES
Mud Balance	9/23/2024	Y	
Scales	9/23/2024	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** 9/23/2024  
**Day of Week:** Monday  
**2/1/1900** 34  
**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					
9/23/24	11:39 AM	D1	31	6	6					

Comments:

*Rick McKay*

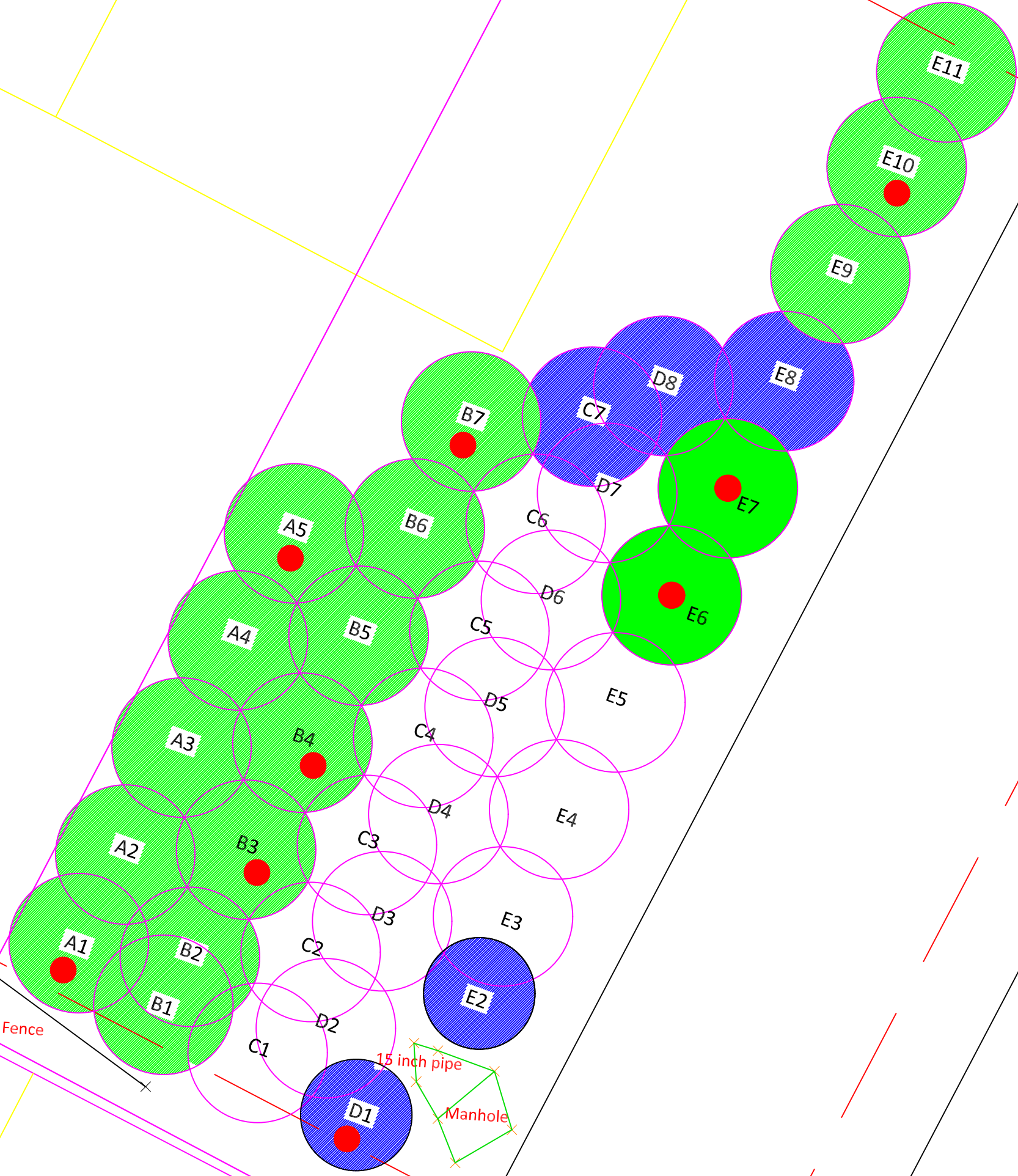
Foreman/Superintendent

Client QC Manager

## 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

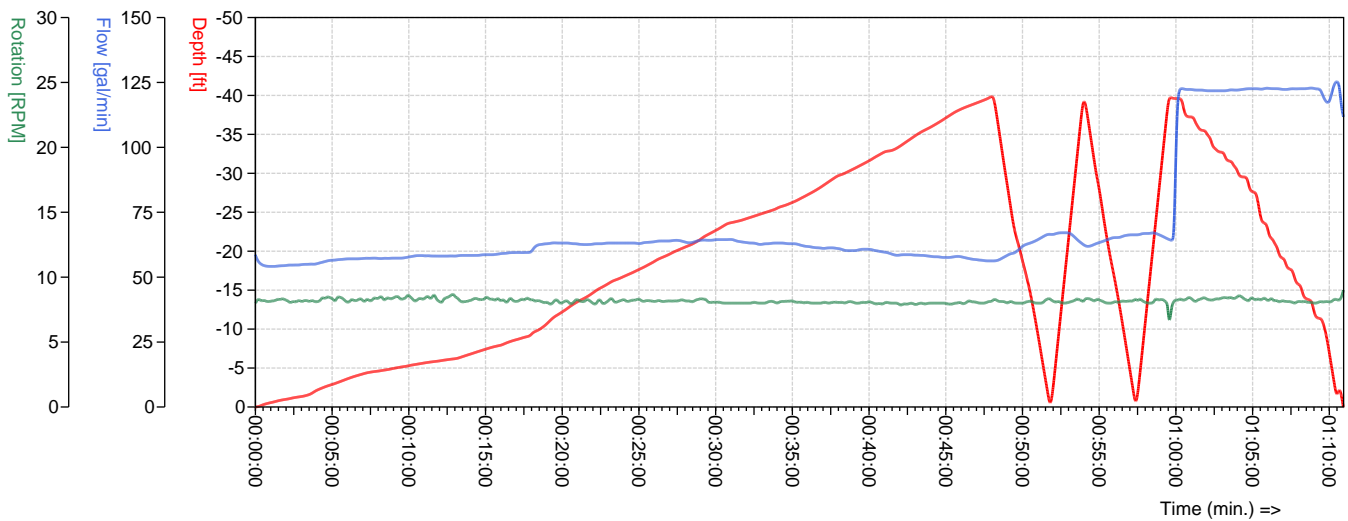
Project: Brooklyn, NY  
JobID: 24-071  
Client: Union LLC  
Contractor: Geo-Solutions  
Equipment ID: Delmag Rig

## Data for Pile No: E8

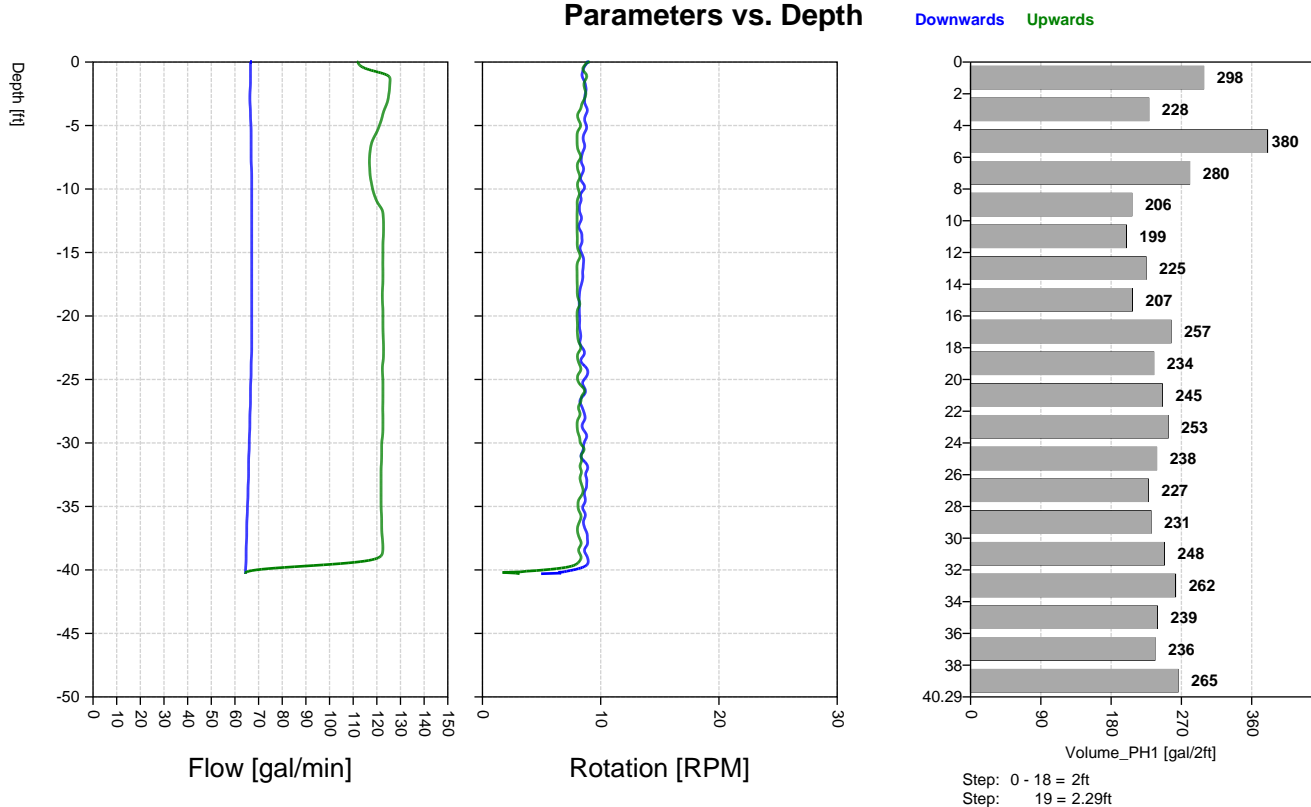
Date: 9/23/2024  
Start of production: 7:49:57 AM  
End of production: 9:00:52 AM  
Total time: 01:10:55  
Pause time: 00:00:00

Pile length: 40.29 ft  
Total Grout: 4980 gal  
Strokes: 3

## Parameters vs. Time



## Parameters vs. Depth



Comment

# Brooklyn, NY Auger ISS Report



## Job Site Data

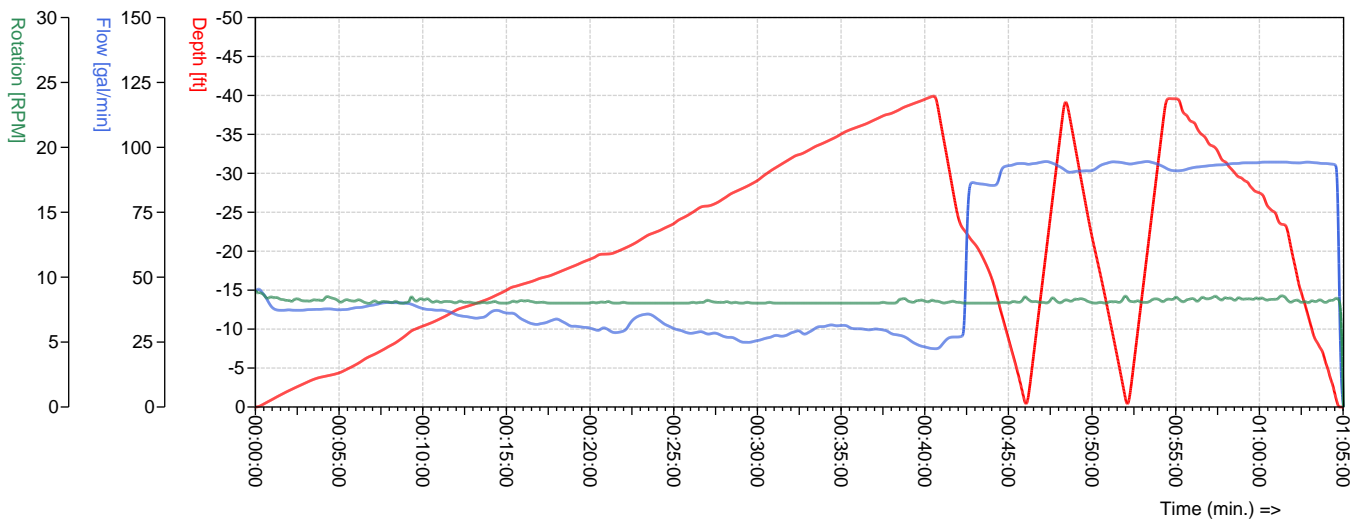
Project: Brooklyn, NY  
JobID: 24-071  
Client: Union LLC  
Contractor: Geo-Solutions  
Equipment ID: Delmag Rig

## Data for Pile No: D1

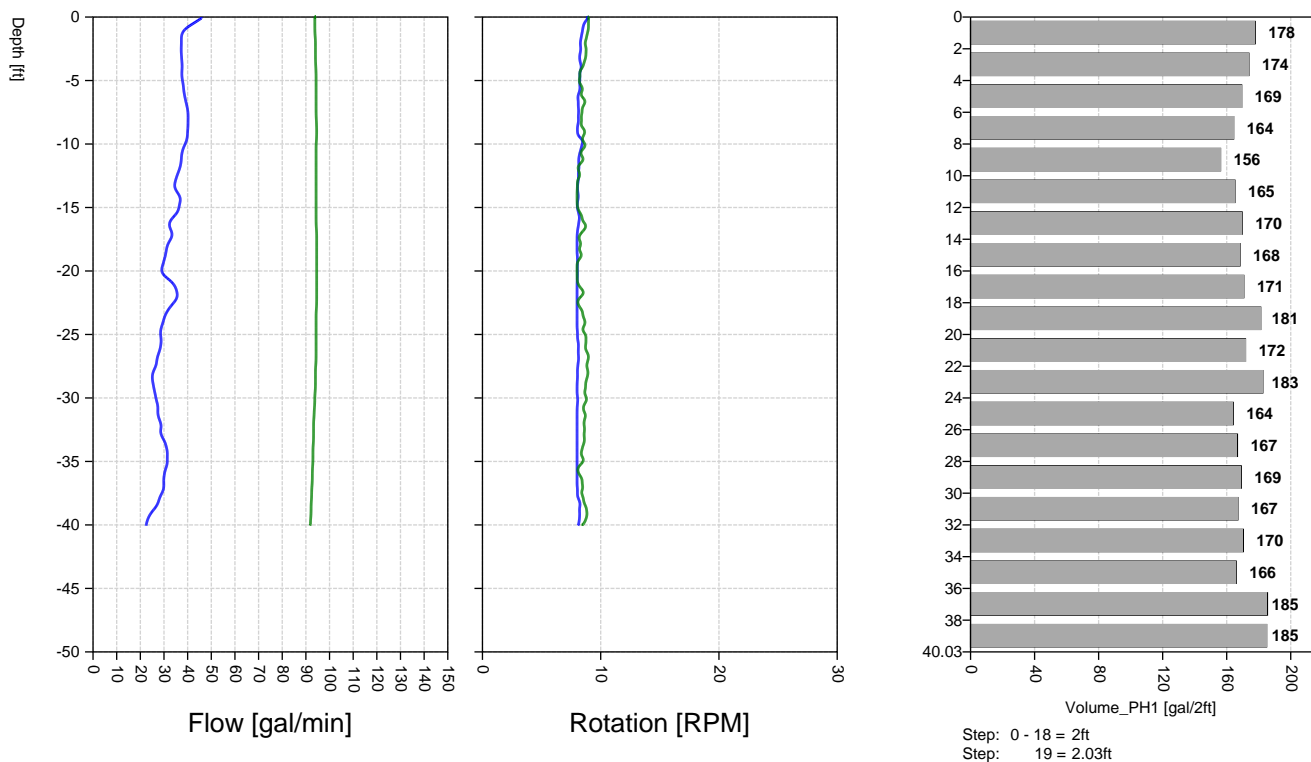
Date: 9/23/2024  
Start of production: 10:22:44 AM  
End of production: 11:27:45 AM  
Total time: 01:05:01  
Pause time: 00:00:00

Pile length: 40.03 ft  
Total Grout: 3441 gal  
Strokes: 3

## Parameters vs. Time



## Parameters vs. Depth



Comment



# Brooklyn, NY Auger ISS Report



## Job Site Data

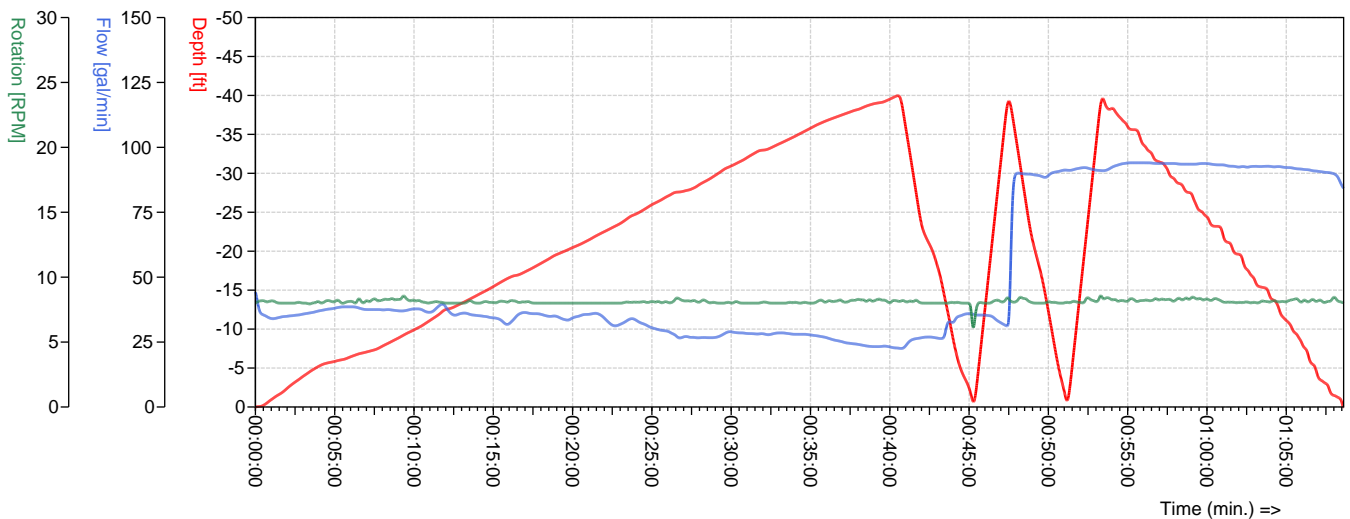
Project: Brooklyn, NY  
JobID: 24-071  
Client: Union LLC  
Contractor: Geo-Solutions  
Equipment ID: Delmag Rig

## Data for Pile No: E2

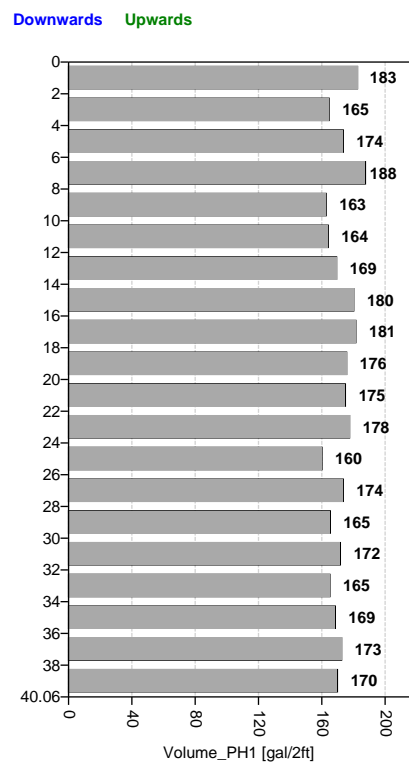
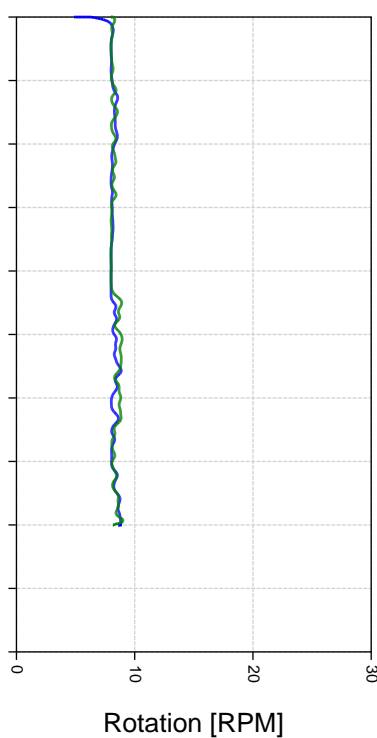
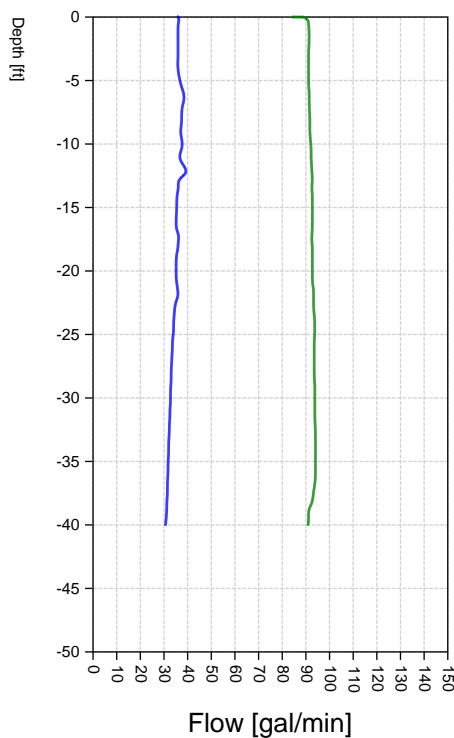
Date: 9/23/2024  
Start of production: 12:25:13 PM  
End of production: 1:33:49 PM  
Total time: 01:08:36  
Pause time: 00:00:00

Pile length: 40.06 ft  
Total Grout: 3455 gal  
Strokes: 3

## Parameters vs. Time



## Parameters vs. Depth



Step: 0 - 18 = 2ft  
Step: 19 = 2.06ft

Comment

# Brooklyn, NY Auger ISS Report



## Job Site Data

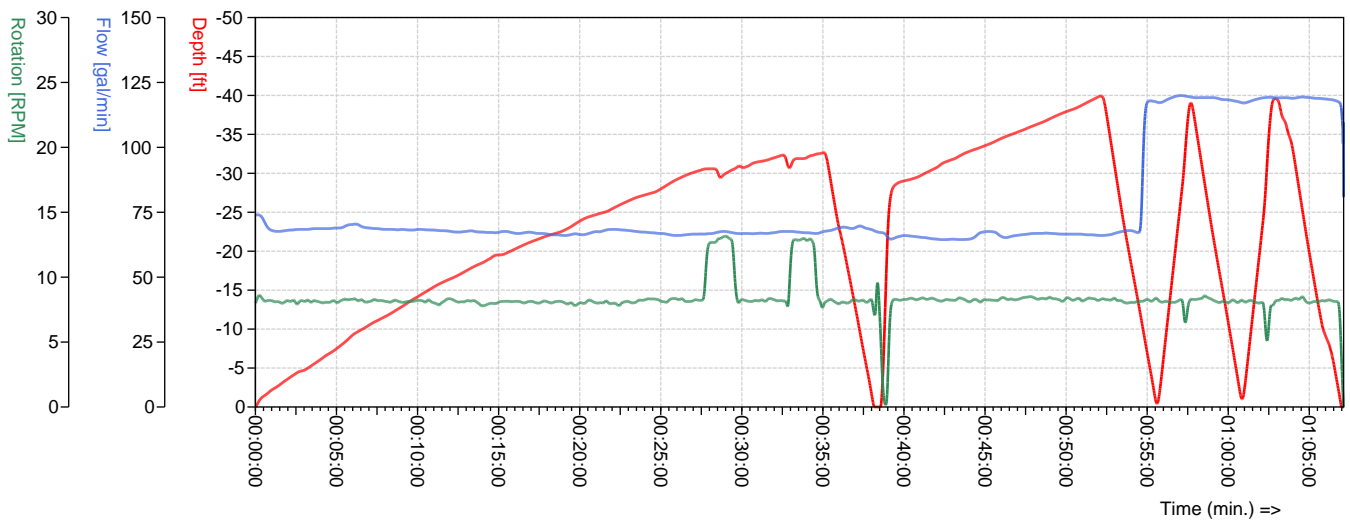
Project: Brooklyn, NY  
JobID: 24-071  
Client: Union LLC  
Contractor: Geo-Solutions  
Equipment ID: Delmag Rig

## Data for Pile No: D8

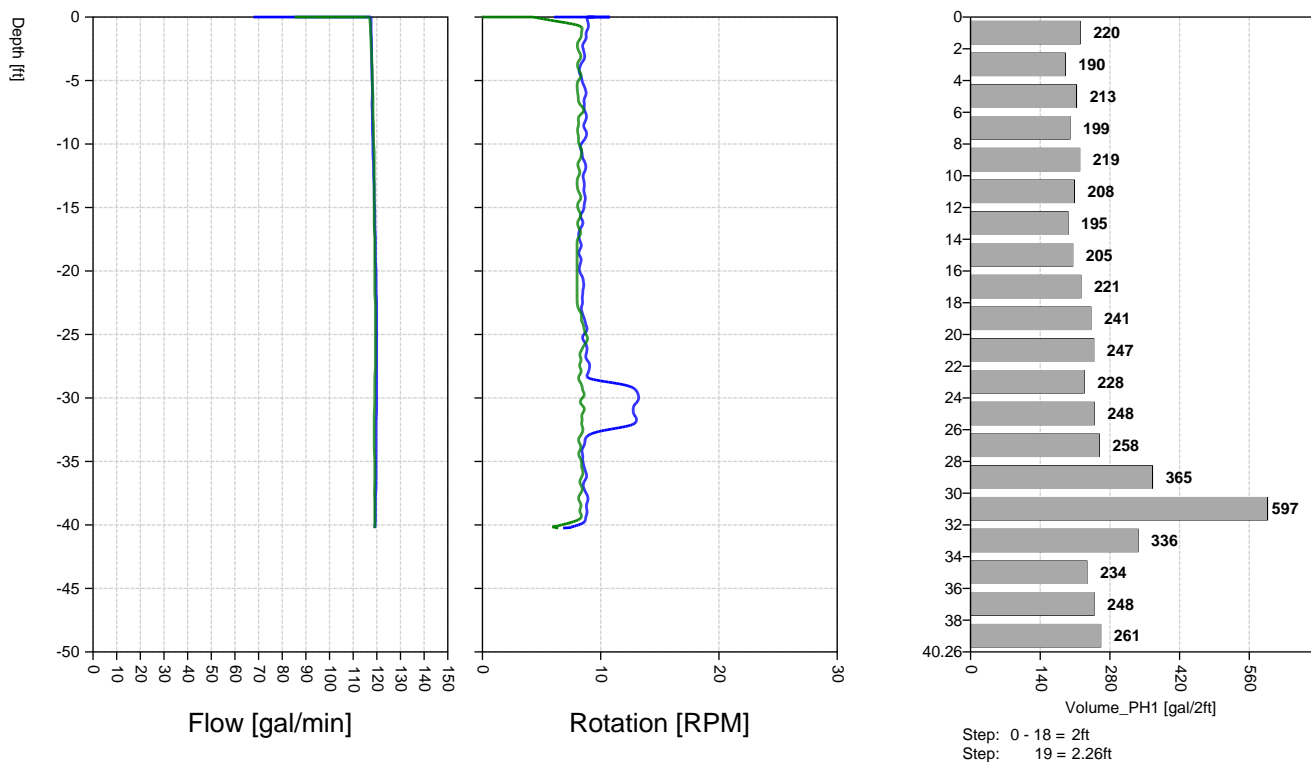
Date: 9/23/2024  
Start of production: 2:40:04 PM  
End of production: 3:47:10 PM  
Total time: 01:07:06  
Pause time: 00:00:00

Pile length: 40.26 ft  
Total Grout: 5150 gal  
Strokes: 3

## Parameters vs. Time



## Parameters vs. Depth



Comment

# Brooklyn, NY Auger ISS Report



## Job Site Data

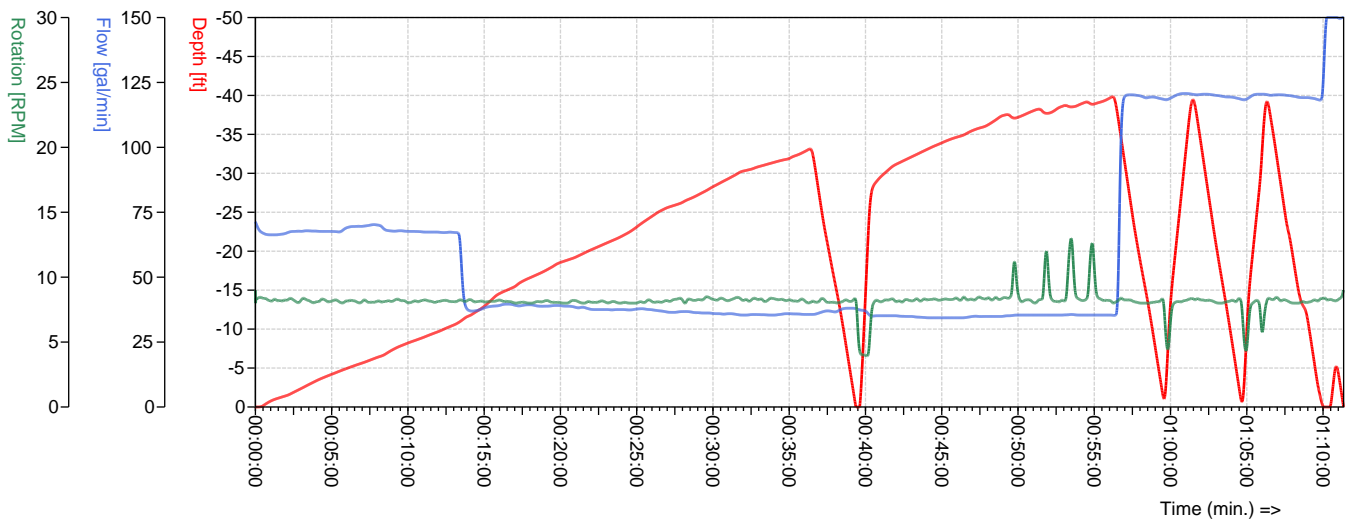
Project: Brooklyn, NY  
JobID: 24-071  
Client: Union LLC  
Contractor: Geo-Solutions  
Equipment ID: Delmag Rig

## Data for Pile No: C7

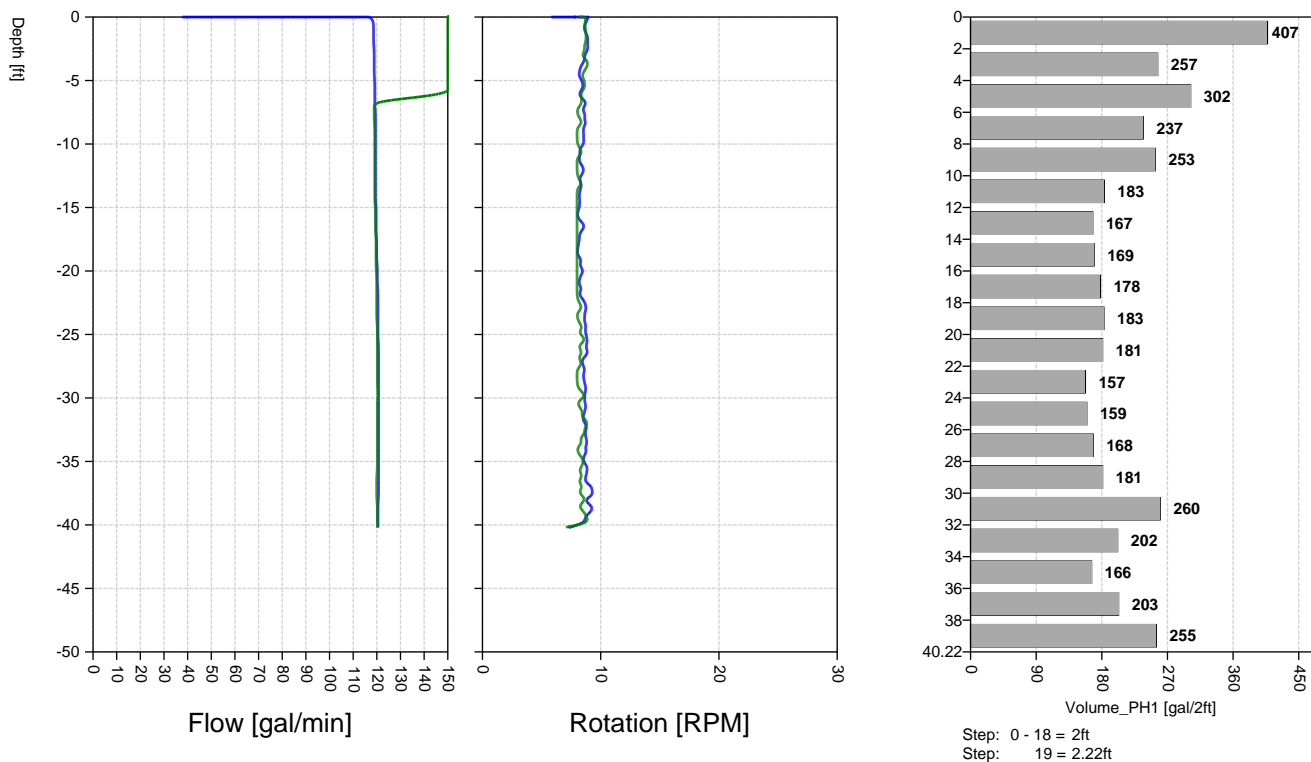
Date: 9/23/2024  
Start of production: 3:52:48 PM  
End of production: 5:04:08 PM  
Total time: 01:11:20  
Pause time: 00:00:00

Pile length: 40.22 ft  
Total Grout: 4286 gal  
Strokes: 3

## Parameters vs. Time



## Parameters vs. Depth



Comment