

DAILY STATUS REPORT

Prepared By: Antonio Cardenas

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

NYSDEC BCP Site No:	C224219	Date:	9/30/2024
Project Name:	450 Union Street, Brooklyn, NY		

Consultant: Vektor Consultants – Antonio Cardenas Visitors: WSP –Aaron Schmidt	Personnel On-Site: Geo-Solutions Inc.- Subcontractor Time On-Site: 07:00 – 17:45
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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 three columns: E5, D5, and D6. Three mixing passes were made for each column between working grade and 40 feet below grade.
- GSI applied Biosolve deodorizer onto the drilling locations and excavation locations. A second foam dispenser was mobilized onsite.
- Batch plant material deliveries and general housekeeping measures continued, as needed.
- Vektor and WSP oversaw GSI implement soil management practices for ISS spoils (foam deodorizing and covering of stockpiles with poly-sheeting) and documented site conditions upon the end of the shift.

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 northeast of the Site and the Downwind CAMP station was in the southwest 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: 0.0161 mg/m³

Highest Levels:

PID: 0.0 ppm Dust: 0.0367 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 (under the NYSDEC approved RSO Work Plan).
- Decommission one remaining recovery well (RW-2) within the work area via NYSDEC's CP-43 Well Decommissioning Policy.

SITE PLAN WITH LOCATIONS

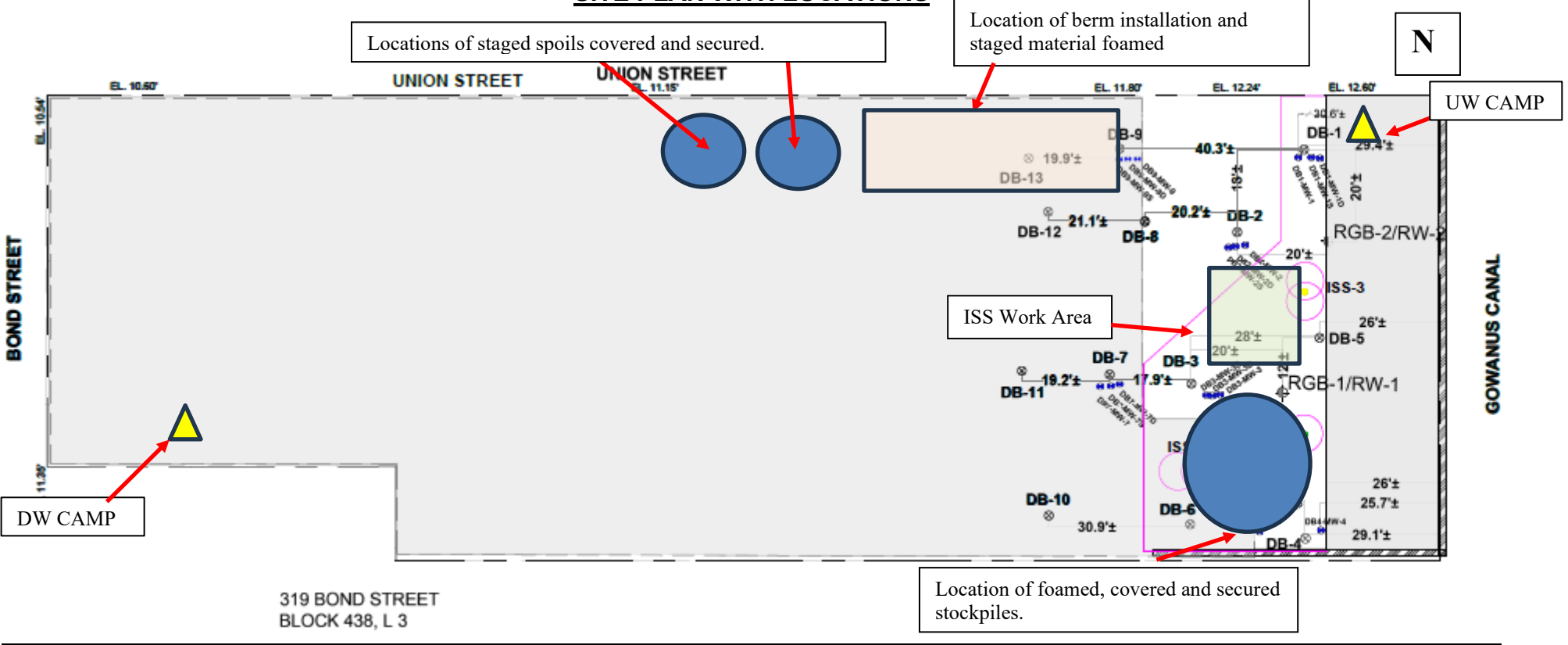


Photo Log

Photo 1:
GSI applying foam during ISS at
column D5, facing southwest.



Photo 2:
View of the Downwind CAMP, facing
east.



Photo 3:
GSI applying foam during ISS at
column D6, facing southwest.



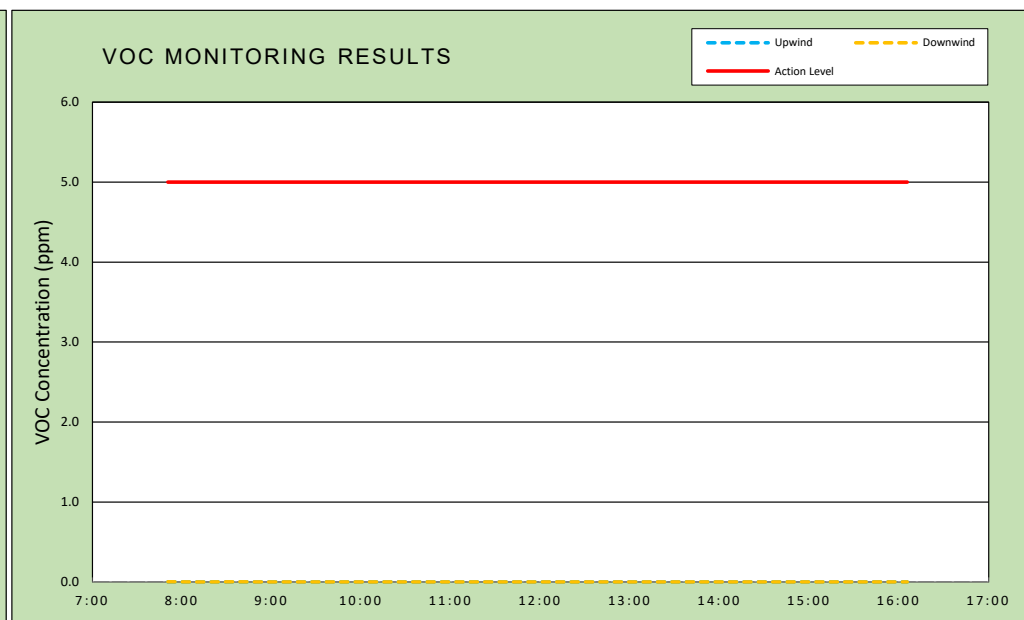
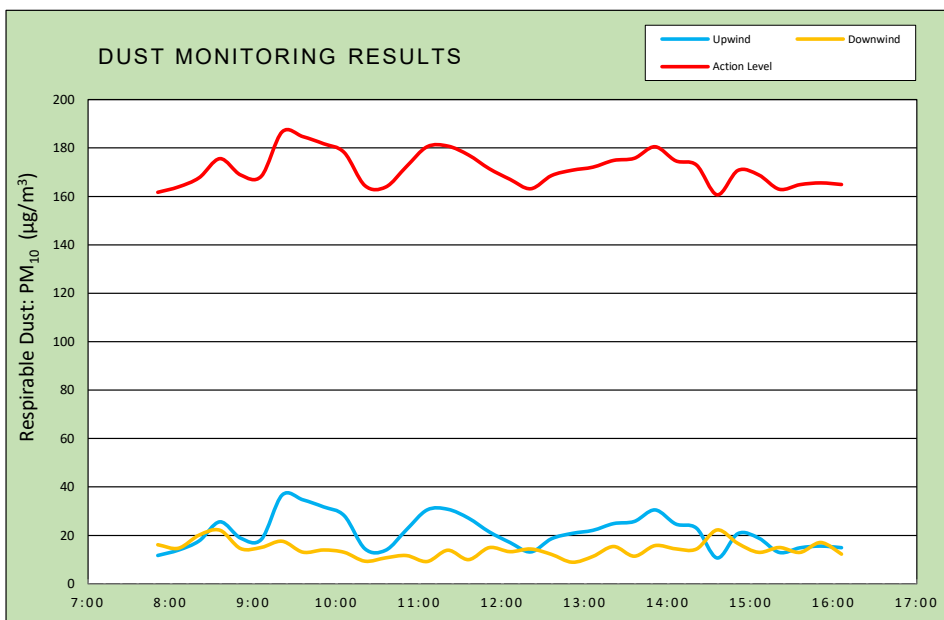
Photo 4:
Poly sheeting is placed atop of ISS
spoils and secured at the end of the
day, facing southwest.



vEktor consultants	DAILY AIR MONITORING REPORT 450 Union Street Brooklyn, New York					09/30/2024	
						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

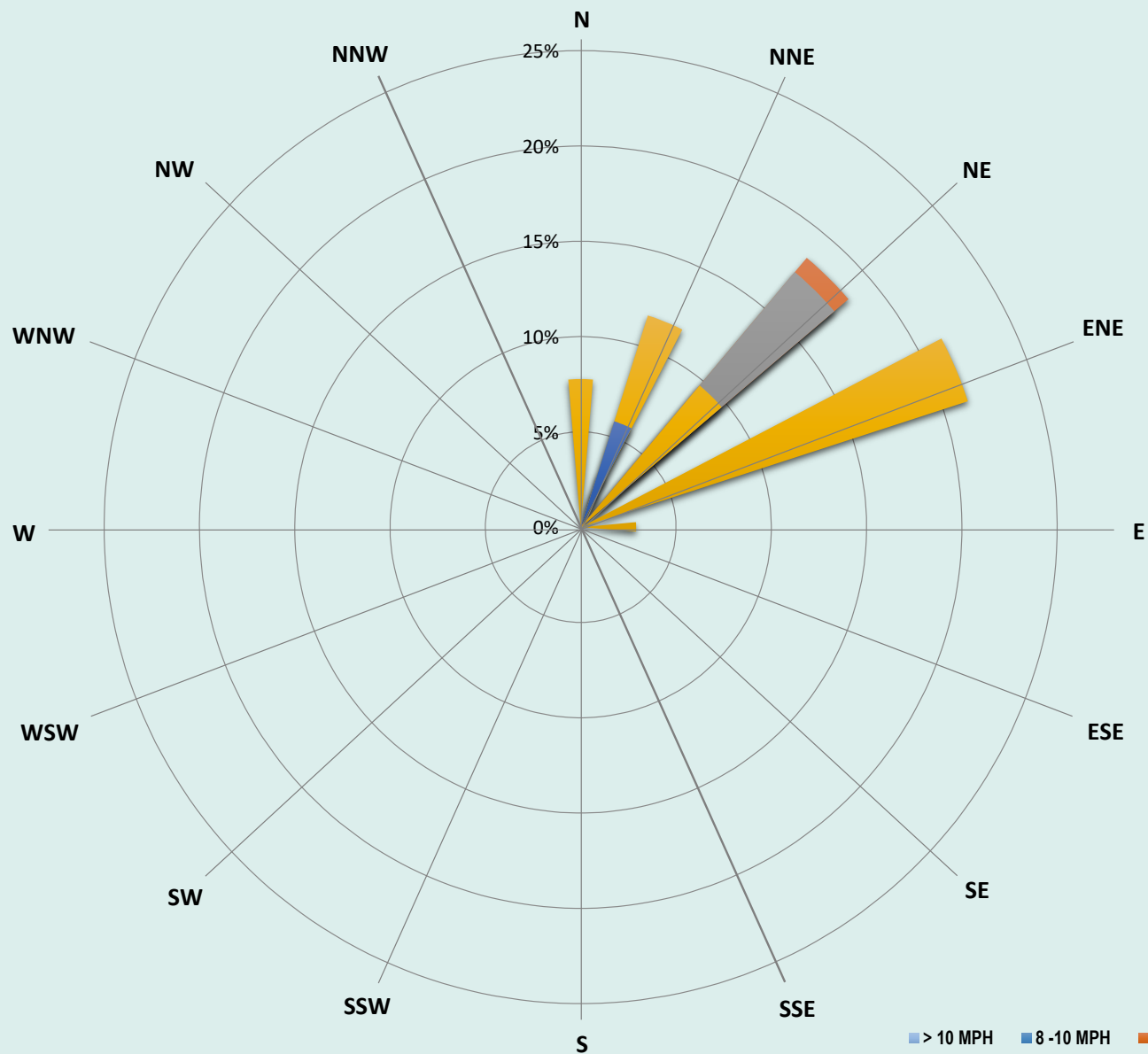
Weather Data Range for Work Day		Wind Direction	NE	Relative Humidity (%)	56.0 - 93.0	Daily Rain Total (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temperature (°F)	59.0 - 76.0	Wind Speed (MPH)	1.8 - 7.0	Barometer (inHg)	30.00 - 30.10	Avg. Dew Point Temp (°F)	59.5	

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	21.4	36.7	9:21	0.0	0.0	7:51
Downwind	14.1	22.3	14:36	0.0	0.0	8:06



Air Monitoring Notes:

Weather Notes:



vEKtor - 450 Union St
Air Monitoring
09/30/24
Wind Speed & Direction
Daily Readings

Monday, September 30, 2024				
Number of Instances Where Downwind Particulates				0
Number of Comparable Data Points =				34
Start Time:				7:51
End Time:				16:06
PARTICULATE DATA				
Upwind		Downwind		Exceeds Particulate Alarm Limit
Time	15-Min Avg Concentration (ug/m ³)	Time	15-Min Avg Concentration (ug/m ³)	
7:51	11.7	7:51	16.1	-
8:06	13.9	8:06	14.7	-
8:21	17.8	8:21	20.1	-
8:36	25.6	8:36	22.1	-
8:51	18.9	8:51	14.5	-
9:06	18.4	9:06	15.0	-
9:21	36.7	9:21	17.6	-
9:36	34.7	9:36	13.1	-
9:51	31.8	9:51	14.0	-
10:06	28.1	10:06	13.0	-
10:21	14.4	10:21	9.3	-
10:36	13.9	10:36	10.7	-
10:51	22.3	10:51	11.7	-
11:06	30.5	11:06	9.2	-
11:21	30.8	11:21	13.9	-
11:36	27.1	11:36	10.0	-
11:51	21.4	11:51	15.0	-
12:06	17.1	12:06	13.3	-
12:21	13.2	12:21	14.4	-
12:36	18.6	12:36	12.2	-
12:51	20.8	12:51	8.9	-
13:06	22.1	13:06	11.3	-
13:21	24.9	13:21	15.4	-
13:36	25.8	13:36	11.4	-
13:51	30.5	13:51	15.8	-
14:06	24.7	14:06	14.4	-
14:21	23.0	14:21	14.4	-
14:36	10.7	14:36	22.3	-
14:51	20.7	14:51	16.7	-
15:06	18.9	15:06	13.0	-
15:21	12.9	15:21	15.0	-
15:36	14.9	15:36	13.0	-
15:51	15.6	15:51	17.1	-
16:06	14.9	16:06	12.3	-

Monday, September 30, 2024				
Number of Instances Where Downwind VOCs Exceeds				0
Number of Comparable Data Points =				0
Start Time:				7:51
End Time:				16:06
PID DATA				
Upwind		Downwind		Exceeds VOC Alarm Limit
Time	15-Min Avg Concentration (ppm)	Time	15-Min Avg Concentration (ppm)	
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	-

Project:	450 Union Remediation	Project No.:	24-071	Date:	09/30/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Monday
Owner:	2201 Union LLC	Superintendent:	Rick McKay	Days on Site:	39
Manager:	Trae Deri	Engineer:	Srujan Prasad	Shift Times:	7:00-17:00

Weather:			
Low: 61	Cloud Cover: Sunny	Wind: 5-10MPH	
High: 73	Precipitation: 0"	Direction: ESE	
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. - 0730 to 0900, GSI moved and foamed the swell materials to South of the jobsite using 210 Kobelco excavator. - 0830 to 0900, Prepped batch plant for production of grout and staked columns. - 0910, GSI started drilling column D5, E5 and completed to depth at 1302. - 1315 to 1400, GSI received a delivery of Rusmar foamer. - 1419, GSI started drilling column D6 and completed to depth at 1524, Following the completion of the column, GSI collected a sample at 29 ftbgs and casted the material into cylinders. - 0800 to 1600, GSI used 2 barrels of foam towards the South of the jobsite around the swell materials and drilling area. - 1530 to 1600, GSI washed out the lines and Kobelco 210 excavator moved crane mats and managed ISS spoils. - 1500 to 1545, GSI started foaming the swell pond and all the stockpiled swell materials and also covered them by using poly-lined. - 1630, All GSI personnel offsite. 			
Conversation with Client/Inspector:			
Production Delays:			
Safety Topics:			
Discussed: .			

Rick McKay
 Foreman/Superintendent

09/30/24
 Date

Project:	450 Union Remediation			Project No.:	24-071		Date:	09/30/24	
Client:	2201 Union LLC			Location:	Brooklyn, NY		Day of Week:	Monday	
Owner:	2201 Union LLC			Superintendent:	Rick McKay		Days on Site:	39	
Manager:	Trae Deri			Engineer:	Srujan Prasad		Shift Times:	7:00-17:00	
Production:					Completion:				
Today: 199.53 CY 3 Columns					95% Columns				
To-Date: 3,161.31 CY 35 Columns									
Materials Received:									
Material		Unit	Today		Total		Notes		
Slag- Grade 120		Ton	26		357				
Portland Cement - Type 1L		Ton	0		166				
Disposal Trucks		N/A	0		18				
Hours	Equipment		Task		Hours	Employees On Site		Trade	
10.0	Offroad Forklift		Material Handling			Trae Deri		PM	
10.0	185 Air Compressor		ISS Mixing		10.0	Rick McKay		SUPT	
10.0	Conex box(1)		Storage		10.0	Srujan Prasad		ENG	
10.0	300kw Generator		Batch Plant		10.0	Eric Shannon		DRILL	
10.0	Lo-pro silo(2)		Cement Storage		9.5	Miguel Maldonado		LAB	
10.0	Flash mixers (2)		Batch Plant		9.5	Daniel Santos		BPO	
10.0	Moyno pump(2)		Batch Plant		9.5	Peter Liota		OP	
10.0	Delmag Hydraulic Rig		ISS Mixing		9.5	Steven Reda		LAB	
10.0	Manlift(1)		Maintenance		9.5	Louis Passannante		OP	
10.0	Kobelco 210 Excavaor		ISS Mixing		9.5	Christhopher Ramdial		OILER	
10.0	250kw Generator		Batch Plant						
110	TOTAL DAY HOURS				87	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

09/30/24

Date

Project:	450 Union Remediation	Project No:	24-071	Date:	09/30/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Monday
Owner:	2201 Union LLC	Superintendent	Rick McKay	Days on Site:	39
Manager:	Trae Deri	Engineer:	Srujan Prasad	Shift Times:	7:00-17:00

**IN-SITU SOIL STABILIZATION - AUGER MIXING
COLUMN LOG**

Operator: ERIC SHANNON

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	%	
9/30/2024	D5	9:10	11:15	12.0	-28.1	40.1	3	10	4	57.1	21.5	31.91	1,426	3,392	9.0%	14,147	14.3%	7,074	7.1%	1.0
9/30/2024	E5	11:37	13:02	12.0	-28.1	40.1	3	10	3	9.0	69.6	103.33	4,615	4,647	9.0%	19,382	6.0%	9,691	3.0%	1.0
9/30/2024	D6	14:20	15:24	12.0	-28.1	40.1	3	10	4	35.2	43.3	64.29	2,872	3,418	9.0%	14,256	7.1%	7,128	3.6%	1.0
												Production Today	199.53 CY			Material Used Today	23.9	Tons	11.9	Tons
												Production To-Date	3161.31 CY			Material Used To-Date	334.7	Tons	167.4	Tons

Comments:
- GSI sampled column D6 at a depth of 29 feet.

Discussed:

Rick McKay
Foreman/Superintendent

SIGNED: _____
Client QC Manager

Project:	450 Union Remediation	Project No.:	24-071	Date:	09/30/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Monday
Owner:	2201 Union LLC	Superintendent:	Rick Mckay	Days on Site:	39
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.
9/30/2024	9:15	1.0:1	1.51
9/30/2024	11:10	1.0:1	1.51
9/30/2024	13:55	1.0:1	1.51

Calibration Log

Device	Date	Calibration (Y/N)	NOTES
Mud Balance	9/27/2024	Y	
Scales	9/27/2024	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 9/30/2024
Client: 2201 Union LLC	Location: Brooklyn, NY	Day of Week: Monday
Owner: 2201 Union LLC	Superintendent: Rick McKay	2/1/1900 39
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		UCS	Permeability	UCS	Permeability	UCS	Permeability
				3x6s	2x4s	7 Day	7 Day	14 Day	14 Day	28 Day	28 Day
						(psi)	(cm/s)	(psi)	(cm/s)	(psi)	(cm/s)
8/19/24	11:42 AM	E6	18	8	8	243.3	4.4E-09	379.9	2.1E-08	439.6	
8/19/24	2:10 PM	E7	22	8	8	203.3	4.5E-09	388.6		641.1	
8/23/24	11:10 AM	B3	25	8	8	95.4	4.9E-08	82.6	2.2E-08	144.8	
8/23/24	12:56 PM	B4	35	8	8	206.3	1.6E-08	209.5	3.1E-08	438.6	
9/18/24	8:34 AM	A1	30	6	6	116.2					
9/19/24	10:24 AM	A5	28	6	6	132.1					
9/19/24	2:48 PM	B7	33	6	6	198.5					
9/20/24	10:10 AM	E10	38	6	6	160.6					
9/23/24	11:39 AM	D1	31	6	6						
9/24/24	2:40 PM	E3	28	6	6						
9/25/24	4:15 PM	C4	34	6	6						
9/26/24	3:50 PM	D3	39	4	4						
9/27/24	4:55 PM	C5	25	6	6						
9/30/24	3:35 PM	D6	29	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

Drawing Name
ISS LAYOUT

GOWANUS CANAL

CANADA

REV	DESCRIPTION					CHECKED
APPROVED						
(a)	Amended	Checked	Approved	<div>PROPERTY OF GEO-SOLUTIONS, INC.</div> <div>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.</div>		
(b)	Amended	Checked	Approved			
		REV	Approved			
(c)	Amended	Checked	Amended	Approved	Checked	Approved

Brooklyn, NY Auger ISS Report



Job Site Data

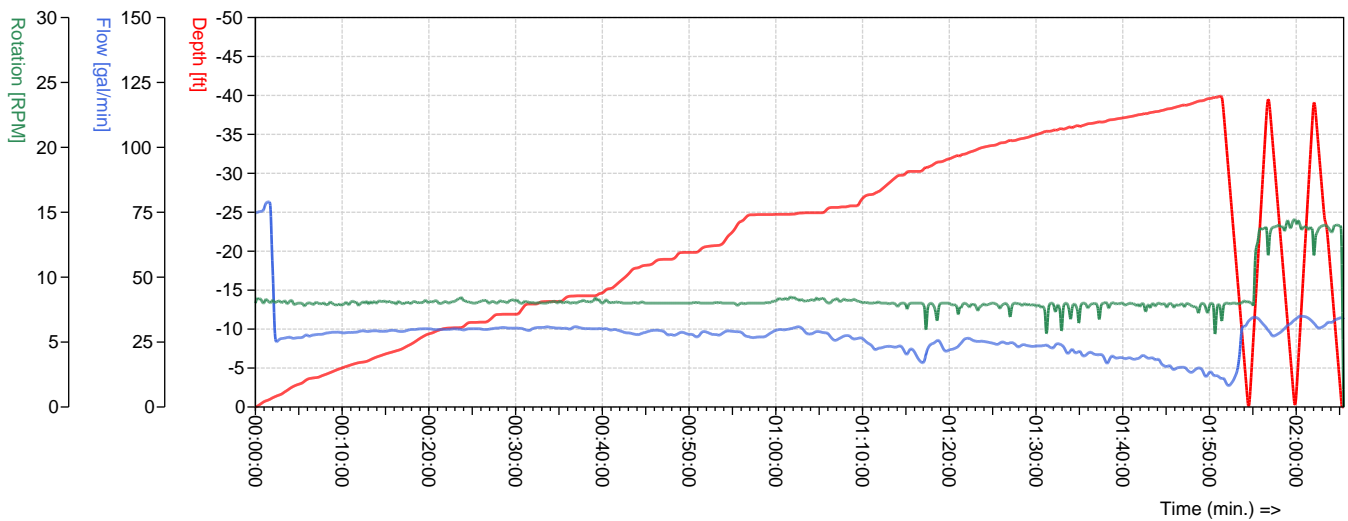
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: D5

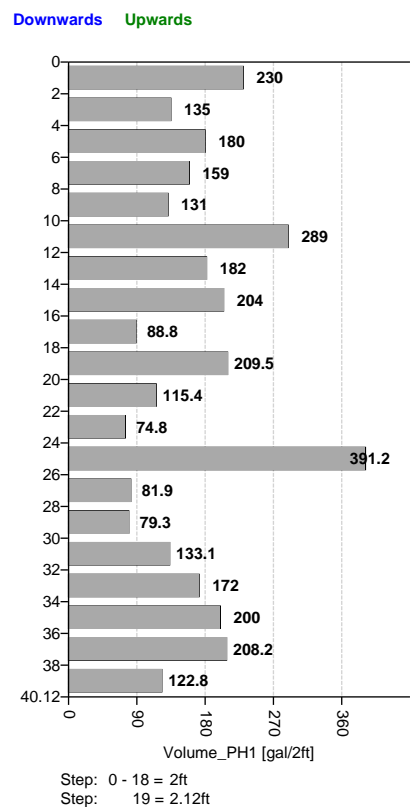
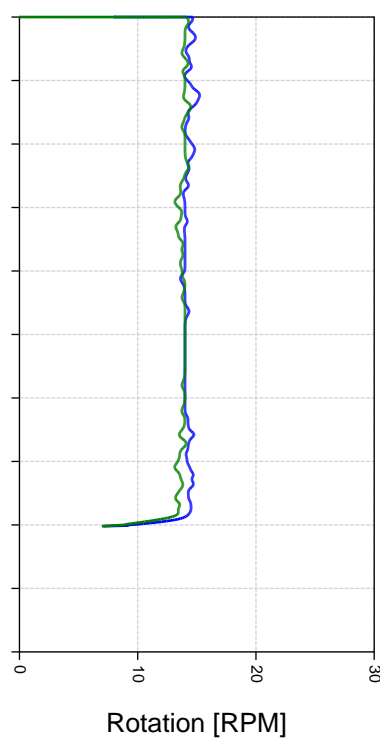
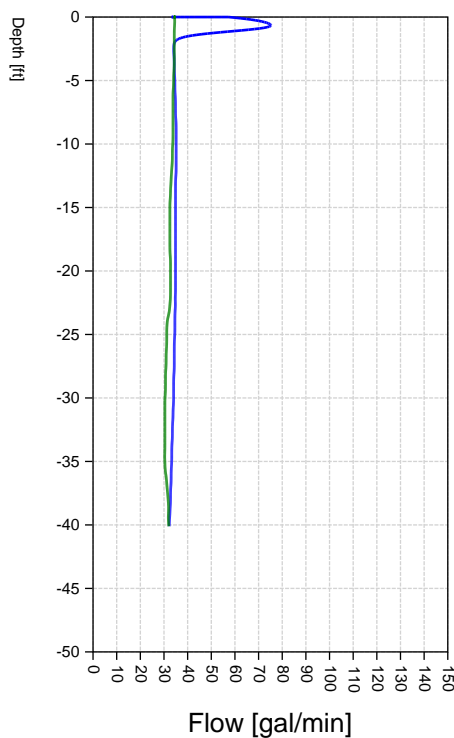
Date: 9/30/2024
Start of production: 9:10:15 AM
End of production: 11:15:42 AM
Total time: 02:05:27
Pause time: 00:00:00

Pile length: 40.12 ft
Total Grout: 3392 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment

Brooklyn, NY Augur ISS Report



Job Site Data

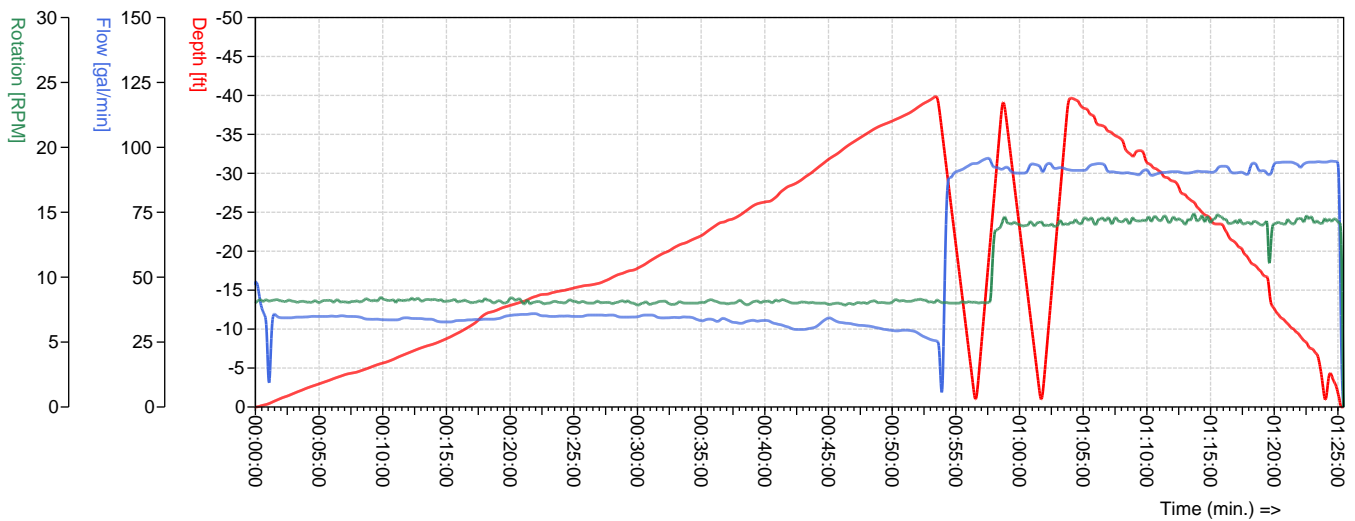
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: E5

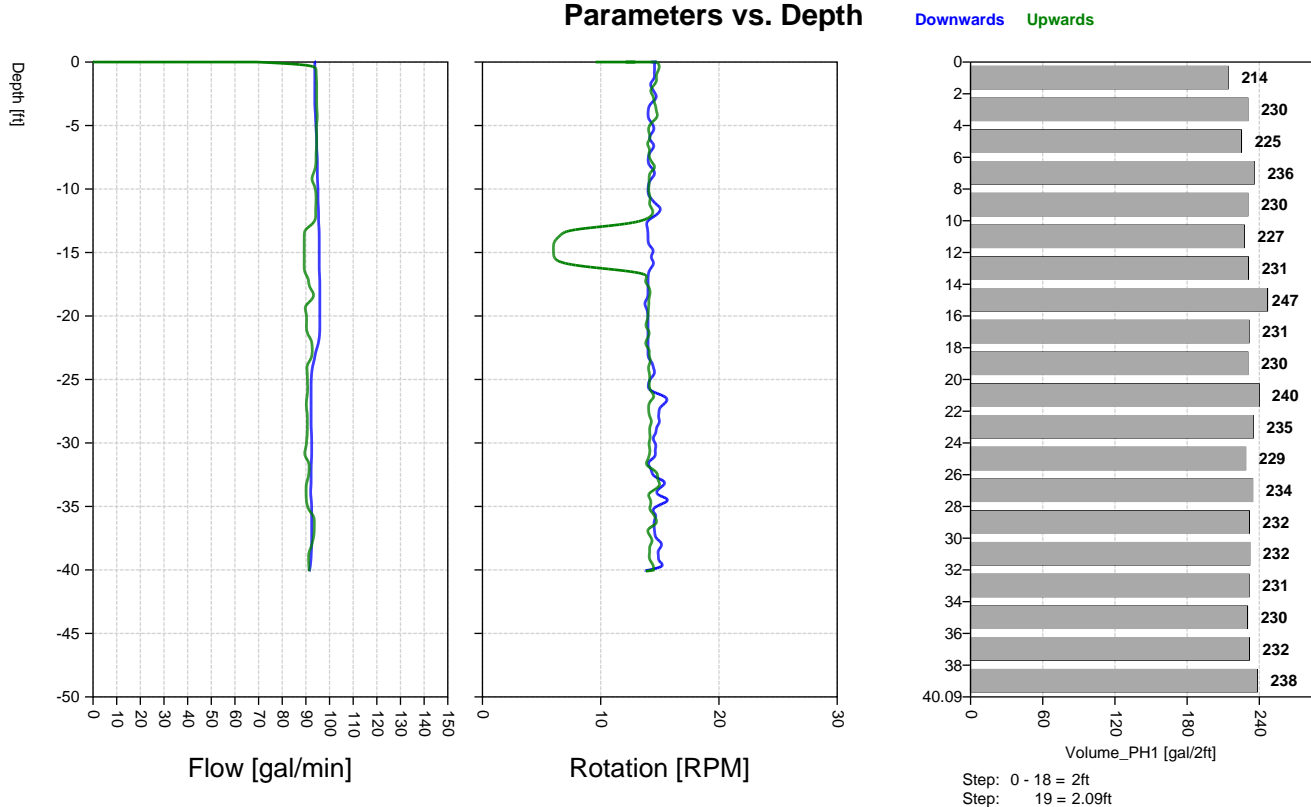
Date: 9/30/2024
Start of production: 11:37:27 AM
End of production: 1:02:53 PM
Total time: 01:25:26
Pause time: 00:00:00

Pile length: 40.09 ft
Total Grout: 4647 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment

Brooklyn, NY Auger ISS Report



Job Site Data

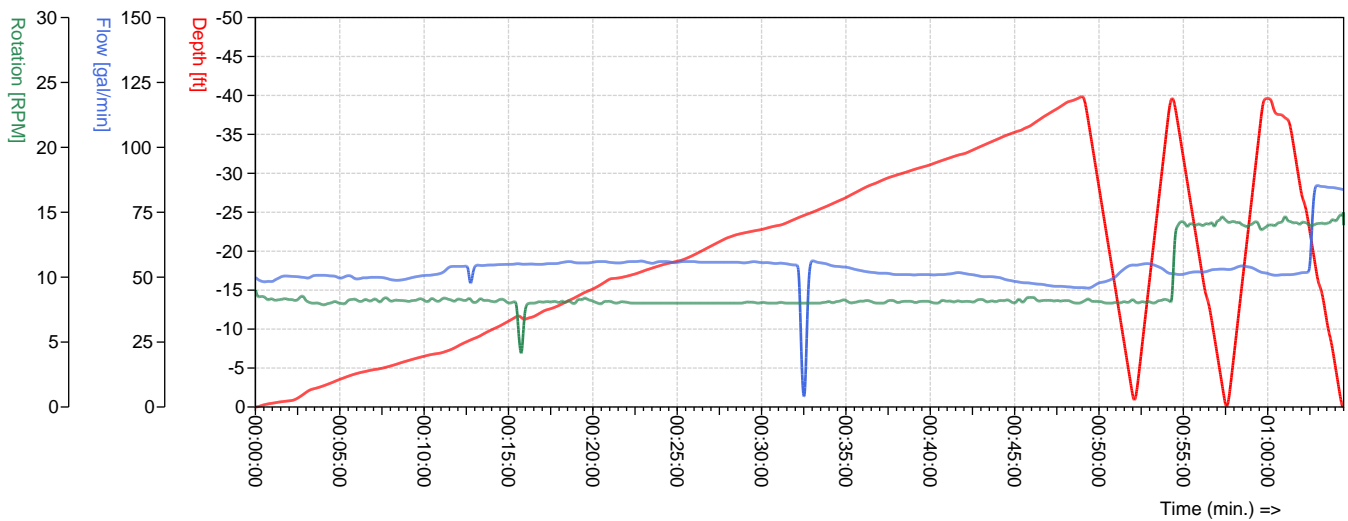
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: D6

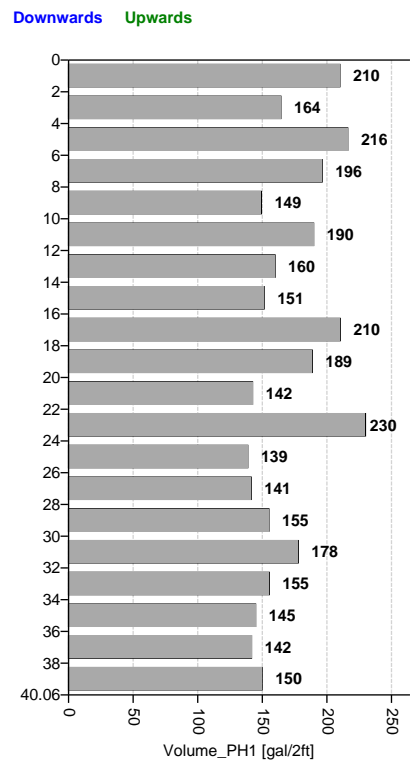
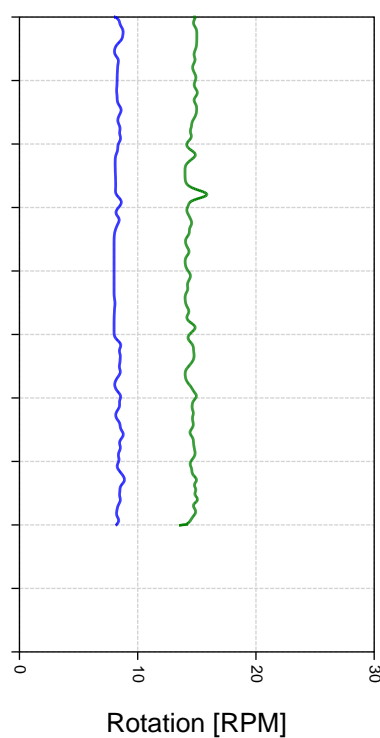
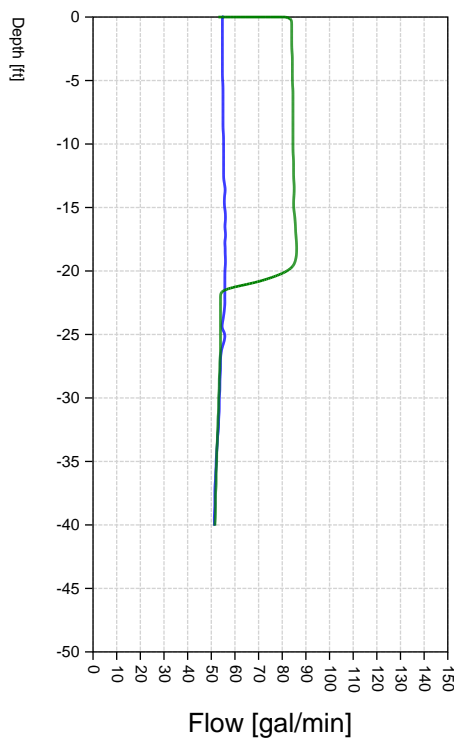
Date: 9/30/2024
Start of production: 2:19:45 PM
End of production: 3:24:14 PM
Total time: 01:04:29
Pause time: 00:00:00

Pile length: 40.06 ft
Total Grout: 3418 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



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

Comment