

DAILY STATUS REPORT

Prepared By: Riley Farbstein

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

NYSDEC BCP Site No:	C224219	Date:	10/1/2024
Project Name:	450 Union Street, Brooklyn, NY		

Consultant: Vektor Consultants – Riley Farbstein	Personnel On-Site: Geo-Solutions Inc.- Subcontractor
Visitors: WSP –Aaron Schmidt	Time On-Site: 07:00 – 15:00

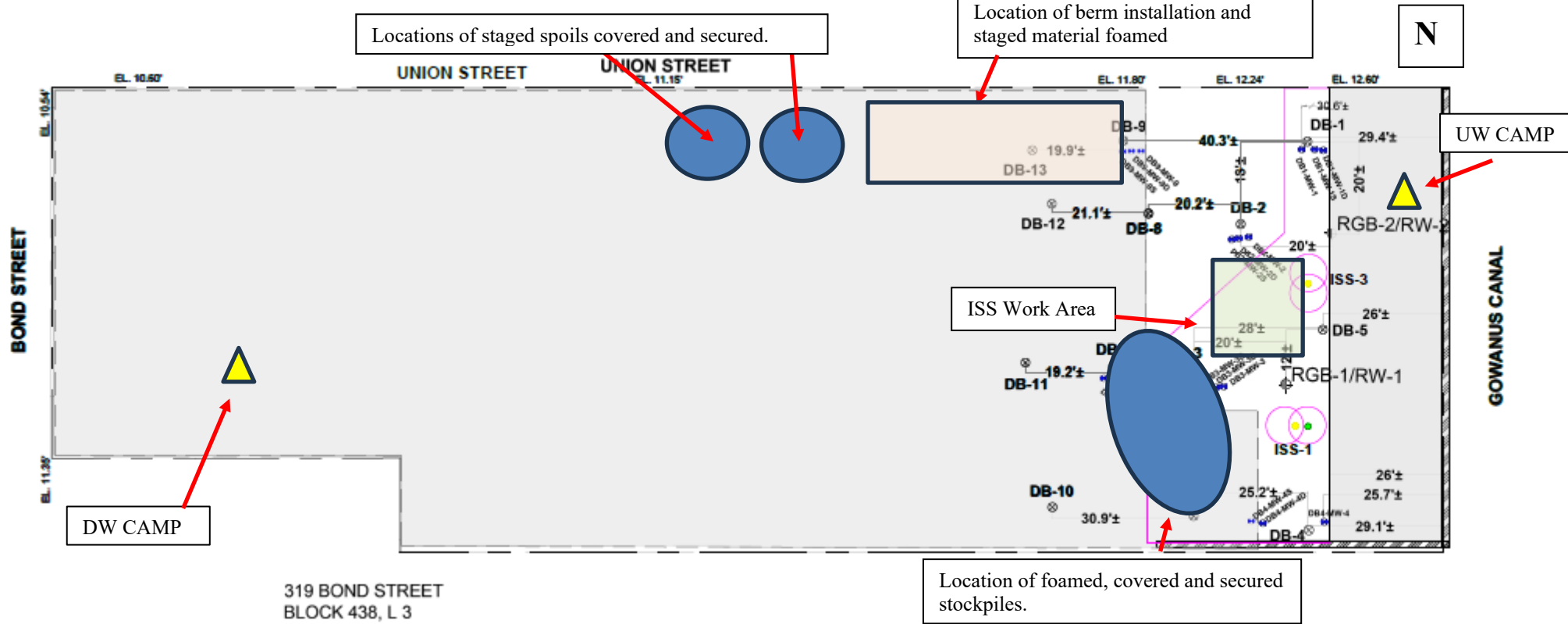
<p>Work Activities Performed:</p> <ul style="list-style-type: none"> GSI introduced a 9% total cement addition using slag to Portland ratio of 2:1 by weight of soil reagent mix in two columns: D7 and C6. Three mixing passes were made for each column between working grade and 40 feet below grade. GSI applied Biosolve deodorizer onto the drilling locations and excavation locations. A second foam dispenser was utilized onsite. Continued general housekeeping, 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.
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<p>Community Air Monitoring Program (CAMP)</p> <p>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.</p> <p>Background Levels (Initial Readings at Start of Day): PID: 0.0 ppm Dust: 0.0194 mg/m³</p> <p>Highest Levels: PID: 0.0 ppm Dust: 0.0689 mg/m³</p> <ul style="list-style-type: none"> 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.
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<p>Problems Encountered</p> <ul style="list-style-type: none"> None.
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<p>Planned Activities for the Next Day</p> <ul style="list-style-type: none"> General housekeeping and power washing of machinery on site. Continued decommissioning one remaining recovery well (RW-2) within the work area via NYSDEC's CP-43 Well Decommissioning Policy.

SITE PLAN WITH LOCATIONS



319 BOND STREET
BLOCK 438, L 3

Photo Log

Photo 1:
View of downwind CAMP



Photo 2:
GSI applying foam during ISS at
column D7, facing west.



Photo 3:
GSI applying foam during ISS at
column C6, facing southwest.



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



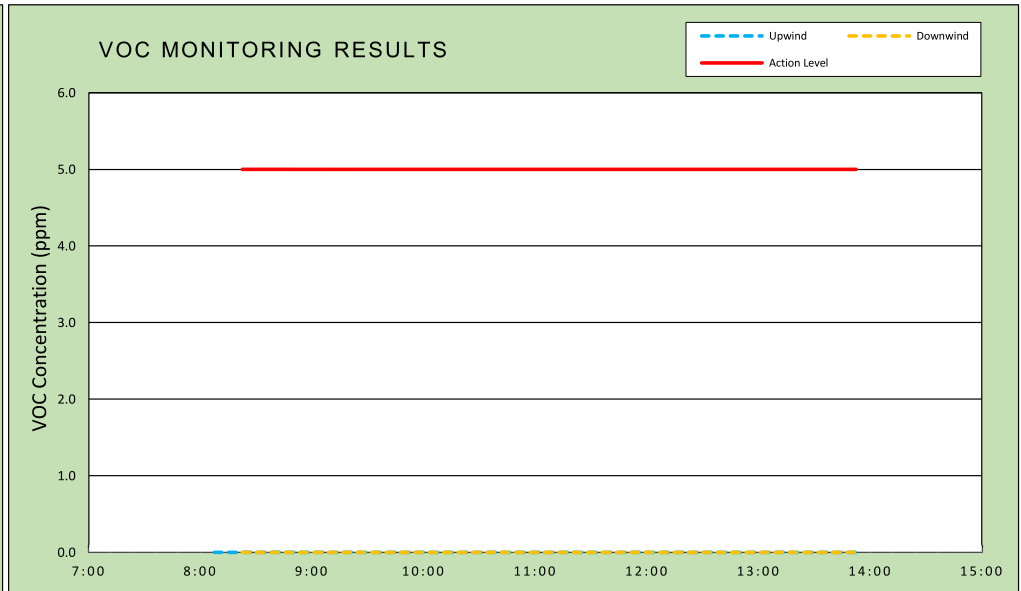
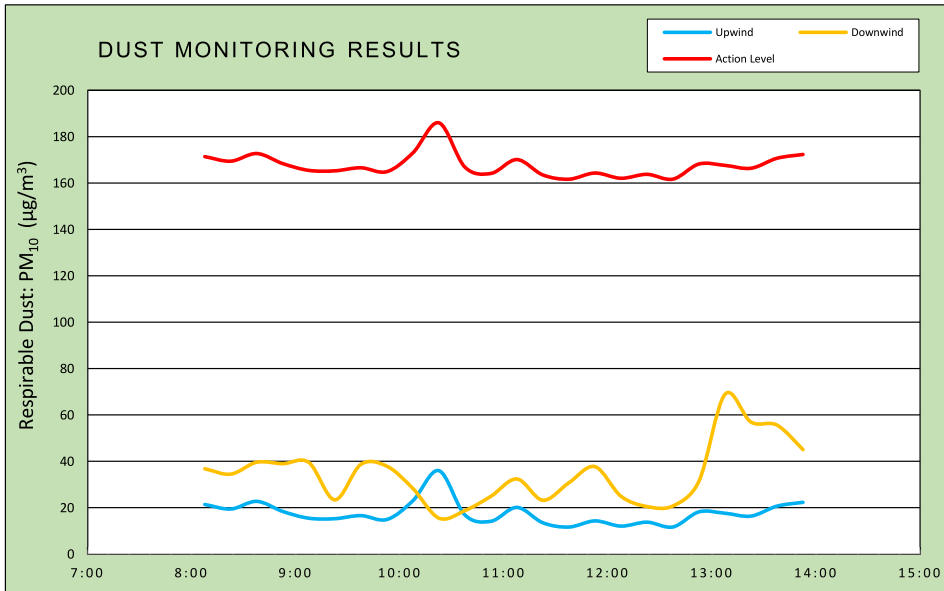
Photo 5:
Poly sheeting is placed on top of ISS
work area and secured with weights
at the end of the day, facing
southwest.



vEktor consultants 37 W. 37th St, 6th Floor - New York, NY	DAILY AIR MONITORING REPORT 450 Union Street Brooklyn, New York				10/01/2024		
					Rev. No. 0	Page 1 of 2	
					Project Number:		
					Dust Action Level	150 $\mu\text{g}/\text{m}^3$	
		VOC Action Level	5 ppm				

Weather Data Range for Work Day		Wind Direction	ENE	Relative Humidity (%)	57.0 - 87.0	Daily Rain Total (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temperature (°F)	61.0 - 71.0	Wind Speed (MPH)	1.8 - 6.5	Barometer (inHg)	30.00 - 30.10	Avg. Dew Point Temp (°F)	58.5	

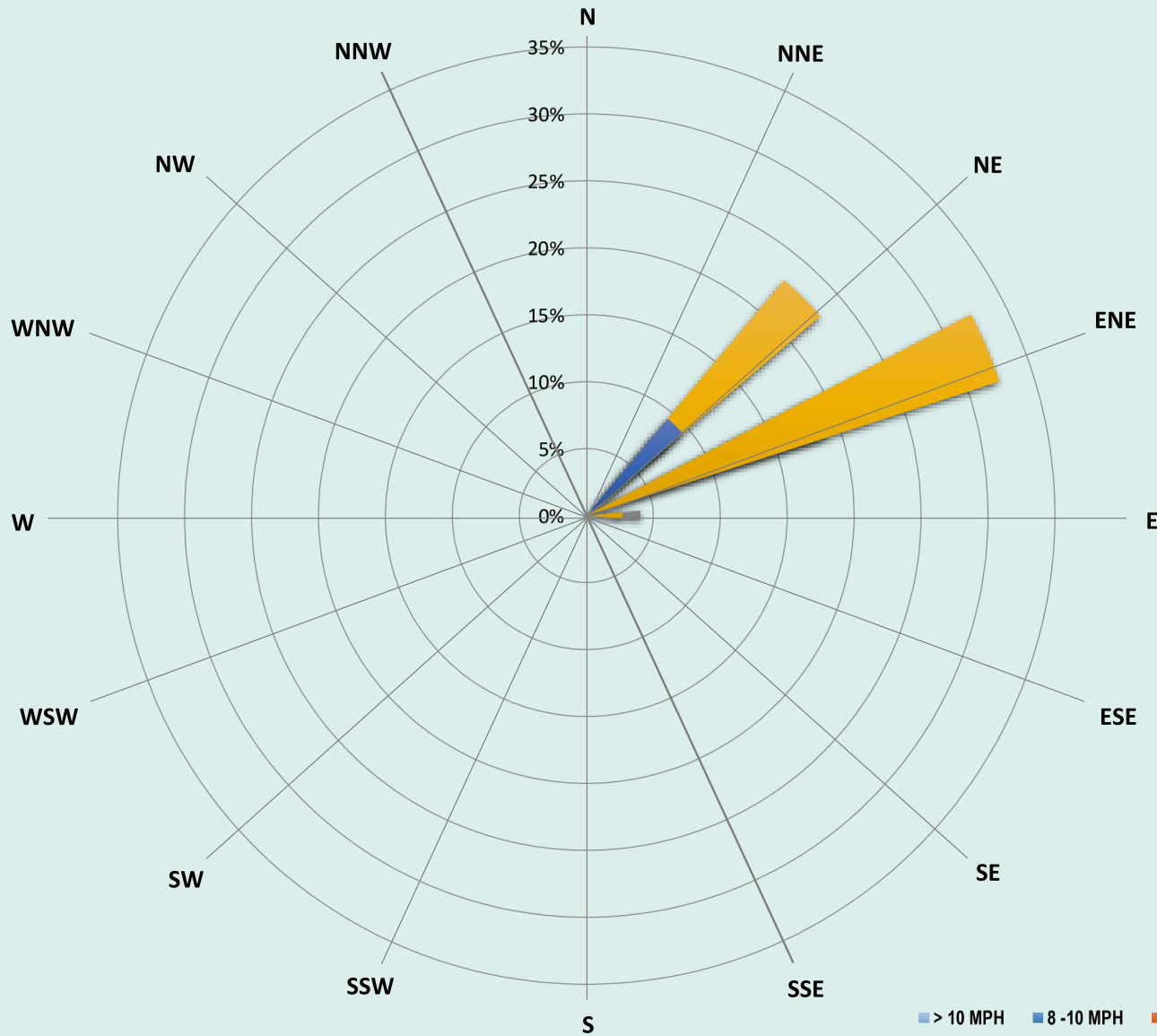
Station Location	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15-Min Dust Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max Dust Reading	Daily Avg. VOC Concentration (ppm)	Max 15-Min VOC Concentration (ppm)	Time of Max VOC Reading
Upwind	17.9	36.0	10:23	0.0	0.0	8:38
Downwind	34.6	68.9	13:08	0.0	0.0	8:23



Air Monitoring Notes:

Weather Notes:

vEKtor - 450 Union St
Air Monitoring
10/01/24
Wind Speed & Direction
Daily Readings



Tuesday, October 1, 2024				
Number of Instances Where Downwind Particulates				0
Number of Comparable Data Points =				24
Start Time:				8:08
End Time:				13:53
PARTICULATE DATA				
Upwind		Downwind		Exceeds Particulate Alarm Limit
Time	15-Min Avg Concentration (ug/m ³)	Time	15-Min Avg Concentration (ug/m ³)	
8:08	21.4	8:08	36.8	-
8:23	19.4	8:23	34.5	-
8:38	22.7	8:38	39.6	-
8:53	18.4	8:53	39.0	-
9:08	15.5	9:08	39.5	-
9:23	15.3	9:23	23.4	-
9:38	16.6	9:38	38.7	-
9:53	14.9	9:53	37.9	-
10:08	23.0	10:08	28.3	-
10:23	36.0	10:23	15.5	-
10:38	16.9	10:38	18.7	-
10:53	14.1	10:53	24.9	-
11:08	20.1	11:08	32.4	-
11:23	13.5	11:23	23.2	-
11:38	11.7	11:38	30.8	-
11:53	14.3	11:53	37.7	-
12:08	12.1	12:08	25.0	-
12:23	13.8	12:23	20.5	-
12:38	11.7	12:38	20.8	-
12:53	18.2	12:53	31.4	-
13:08	17.6	13:08	68.9	-
13:23	16.4	13:23	56.9	-
13:38	20.7	13:38	55.6	-
13:53	22.3	13:53	45.0	-

Tuesday, October 1, 2024				
Number of Instances Where Downwind VOCs Exceeds				0
Number of Comparable Data Points =				0
Start Time:				8:08
End Time:				13:53
PID DATA				
Upwind		Downwind		Exceeds VOC Alarm Limit
Time	15-Min Avg Concentration (ppm)	Time	15-Min Avg Concentration (ppm)	
8:08	0.0	8:08	-	-
8:23	0.0	8:23	0.0	-
8:38	0.0	8:38	0.0	-
8:53	0.0	8:53	0.0	-
9:08	0.0	9:08	0.0	-
9:23	0.0	9:23	0.0	-
9:38	0.0	9:38	0.0	-
9:53	0.0	9:53	0.0	-
10:08	0.0	10:08	0.0	-
10:23	0.0	10:23	0.0	-
10:38	0.0	10:38	0.0	-
10:53	0.0	10:53	0.0	-
11:08	0.0	11:08	0.0	-
11:23	0.0	11:23	0.0	-
11:38	0.0	11:38	0.0	-
11:53	0.0	11:53	0.0	-
12:08	0.0	12:08	0.0	-
12:23	0.0	12:23	0.0	-
12:38	0.0	12:38	0.0	-
12:53	0.0	12:53	0.0	-
13:08	0.0	13:08	0.0	-
13:23	0.0	13:23	0.0	-
13:38	0.0	13:38	0.0	-
13:53	0.0	13:53	0.0	-

Project: 450 Union Remediation	Project No.: 24-071	Date: 10/01/24
Client: 2201 Union LLC	Location: Brooklyn, NY	Day of Week: Tuesday
Owner: 2201 Union LLC	Superintendent: Rick Mckay	Days on Site: 40
Manager: Trae Deri	Engineer: Srujan Prasad	Shift Times: 7:00-17:00

Weather:		
Low: 60	Cloud Cover: Cloudy	Wind: 10-15MPH
High: 71	Precipitation: 0"	Direction: ESE

Description of Work Activities:

- 0700 to 0715, GSI held a tailgate safety meeting and discussed the day's planned activities with site personnel.
- 0730 to 0800, GSI moved and foamed the swell materials to South of the jobsite using 210 Kobelco excavator.
- 0745 to 0815, Prepped batch plant for production of grout and staked columns.
- 0820, GSI started drilling column C6 and paused the column to address the mechanical issue with the Rig centralizer and fixed it.
- 0931, GSI started drilling column C6 and completed to depth at 1050, Following the completion of the column, GSI collected a sample at 31 ftbgs and casted the material into cylinders.
- 0930 to 1030, GSI received a delivery of 326.4 gallons of dyed diesel fuel and slag.
- 1117, GSI started drilling column D7 and completed the last column to depth at 1319.
- 0800 to 1430, GSI used 2 barrels of foam towards the South of the jobsite around the swell materials and drilling area.
- 1400 to 1430, GSI washed out the lines and Kobelco 210 excavator moved crane mats and managed ISS spoils.
- 1415 to 1445, GSI started foaming the swell pond and all the stockpiled swell materials and also covered them by using poly-lined.

- 1500, All GSI personnel offsite.

Conversation with Client/Inspector:

Production Delays:

Safety Topics:
 Discussed: Two Types of Workplace Stress.

Rick Mckay
 Foreman/Superintendent

10/01/24
 Date

Project: 450 Union Remediation	Project No.: 24-071	Date: 10/01/24			
Client: 2201 Union LLC	Location: Brooklyn, NY	Day of Week: Tuesday			
Owner: 2201 Union LLC	Superintendent: Rick Mckay	Days on Site: 40			
Manager: Trae Deri	Engineer: Srujan Prasad	Shift Times: 7:00-17:00			
Production:		Completion:			
Today: 88.76 CY 2 Columns	100% Columns				
To-Date: 3,250.07 CY 37 Columns					
Materials Received:					
Material	Unit	Today	Total	Notes	
Slag- Grade 120	Ton	10	367		
Portland Cement - Type 1L	Ton	0	166		
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	8.5	Rick McKay	SUPT
8.0	Conex box(1)	Storage	8.5	Srujan Prasad	ENG
8.0	300kw Generator	Batch Plant	8.0	Eric Shannon	DRILL
8.0	Lo-pro silo(2)	Cement Storage	8.0	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	8.0	Steven Reda	LAB
8.0	Manlift(1)	Maintenance	8.0	Louis Passannante	OP
8.0	Kobelco 210 Excavaor	ISS Mixing	8.0	Christopher Ramdial	OILER
8.0	250kw Generator	Batch Plant			
88	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 Opeartor

Rick McKay

Foreman/Superintendent

10/01/24

Date

Project: 450 Union Remediation	Project No: 24-071	Date: 10/01/24
Client: 2201 Union LLC	Location: Brooklyn, NY	Day of Week: Tuesday
Owner: 2201 Union LLC	Superintendent: Rick Mckay	Days on Site: 40
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				Water: Cement Ratio					
				Top of Col ELEV	Bottom of Col ELEV	Depth FT										Slag Addition		Portland Cement Addition							
																LBS	%	LBS	%						
10/1/2024	C6	9:31	10:50	12.0	-28.1	40.1	3	10	4	57.1	38.8	57.59	2,572	3,459	9.0%	14,427	8.1%	7,213	4.0%	1.0					
10/1/2024	D7	11:17	13:19	12.0	-28.1	40.1	3	10	5	9.0	21.0	31.17	1,392	3,920	9.0%	16,349	16.9%	8,175	8.4%	1.0					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Production Today</td> <td style="width: 50%;">88.76 CY</td> </tr> <tr> <td>Production To-Date</td> <td>3250.07 CY</td> </tr> </table>																Production Today	88.76 CY	Production To-Date	3250.07 CY						
Production Today	88.76 CY																								
Production To-Date	3250.07 CY																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Material Used Today</td> <td style="width: 5%;">15.4</td> <td style="width: 5%;">Tons</td> <td style="width: 5%;">7.7</td> <td style="width: 5%;">Tons</td> </tr> <tr> <td>Material Used To-Date</td> <td>350.1</td> <td>Tons</td> <td>175.0</td> <td>Tons</td> </tr> </table>																Material Used Today	15.4	Tons	7.7	Tons	Material Used To-Date	350.1	Tons	175.0	Tons
Material Used Today	15.4	Tons	7.7	Tons																					
Material Used To-Date	350.1	Tons	175.0	Tons																					

Comments:
 - GSI sampled column C6 at a depth of 31 feet.
 - Column C6 has 2 Guhma files where GSI had to pause drilling to address the mechanical issue with the centralizer and started over to drill the column C6.

Discussed: _____
 Rick Mckay
 Foreman/Superintendent

SIGNED: _____
 Client QC Manager

Project:	450 Union Remediation	Project No.:	24-071	Date:	10/01/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Tuesday
Owner:	2201 Union LLC	Superintendent:	Rick Mckay	Days on Site:	40
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.
10/1/2024	9:30	1.0:1	1.51
10/1/2024	11:15	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 10/1/2024
Client: 2201 Union LLC	Location: Brooklyn, NY	Day of Week: Tuesday
Owner: 2201 Union LLC	Superintendent: Rick Mckay	2/1/1900 40
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		28 Day (psi)	28 Day (cm/s)
				3x6s	2x4s	7 Day (psi)	7 Day (cm/s)	14 Day (psi)	14 Day (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						
10/1/24	10:55 AM	C6	31	6	6						

Comments:

Rick McKay

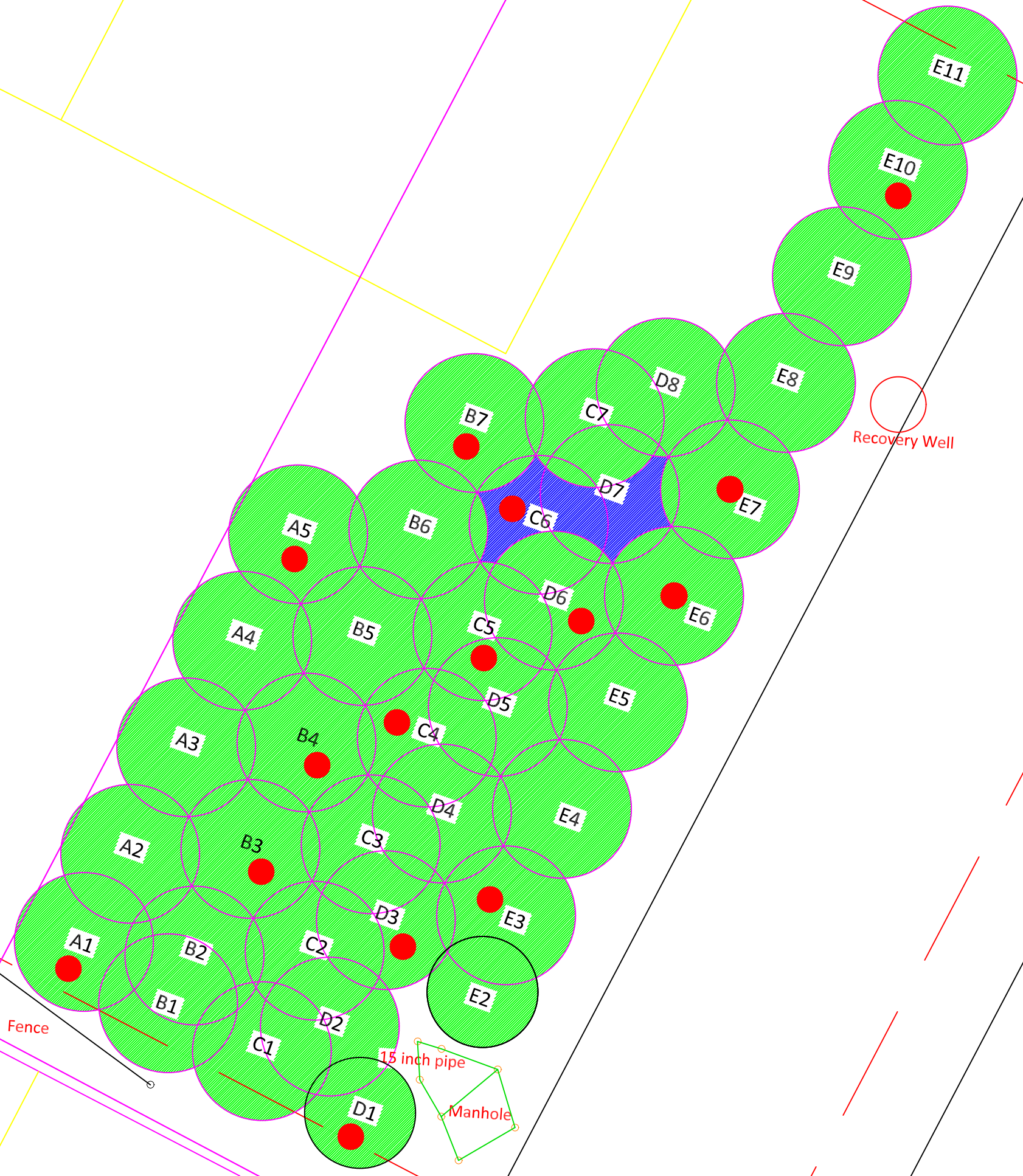
Foreman/Superintendent

Client QC Manager

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

Delivery No.	Date	Reference No.	Amount Delivered (tons)	Amount Delivered (lbs)	Amount Delivered to Date
1	8/14/2024	137U026722	24.80	49,600	24.80
2	8/19/2024	137U026794	25.49	50,980	50.29
3	8/20/2024	137U026819	25.60	51,200	75.89
4	9/16/2024	137U027385	20.02	40,040	95.91
5	9/18/2024	137U027476	25.70	51,400	121.61
6	9/19/2024	137U027484	25.04	50,080	146.65
7	9/19/2024	137U027507	25.58	51,160	172.23
8	9/19/2024	137U027496	24.91	49,820	197.14
9	9/20/2024	137U027528	25.25	50,500	222.39
10	9/20/2024	137U027544	6.00	12,000	228.39
11	9/23/2024	137U027577	25.05	50,104	253.44
12	9/24/2024	137U027611	25.47	50,940	278.91
13	9/24/2024	137U027639	25.90	51,800	304.81
14	9/25/2024	137U027663	25.56	51,120	330.37
15	9/30/2024	137U027640	26.30	52,600	356.67
16	10/1/2024	173u027715	10.00	20,000	366.67

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



GOWANUS CANAL

CANAL

REV	DESCRIPTION	CHECKED	APPROVED

PROPERTY OF GEO-SOLUTIONS, INC.
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Brooklyn, NY Auger ISS Report



Job Site Data

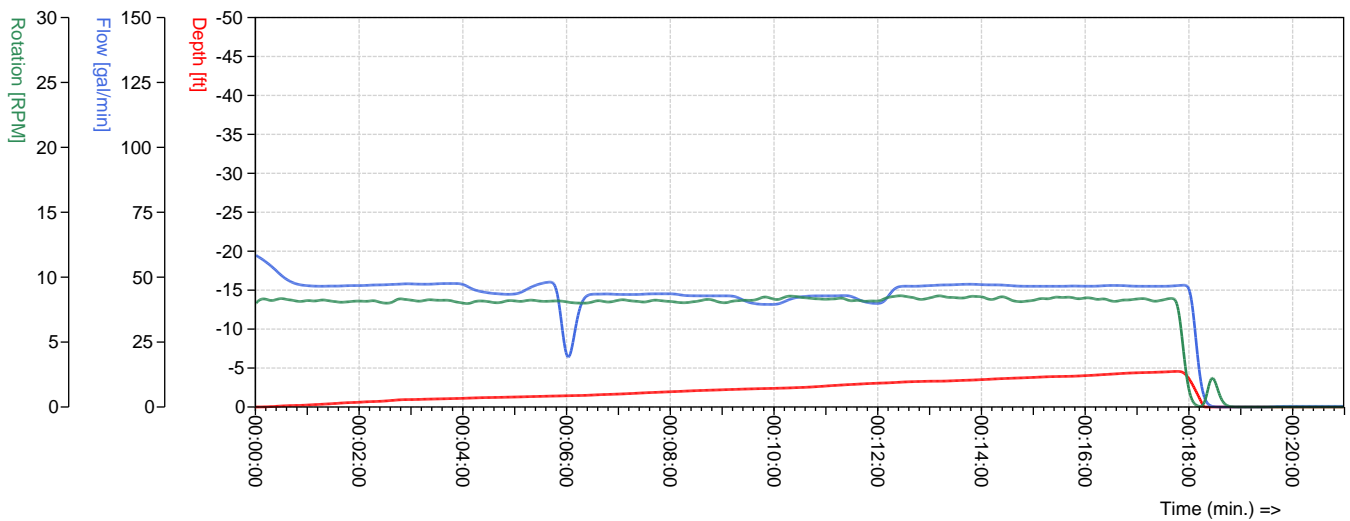
Project: Brooklyn, NY
 JobID: 24-071
 Client: Union LLC
 Contractor: Geo-Solutions
 Equipment ID: Delmag Rig

Data for Pile No: C6

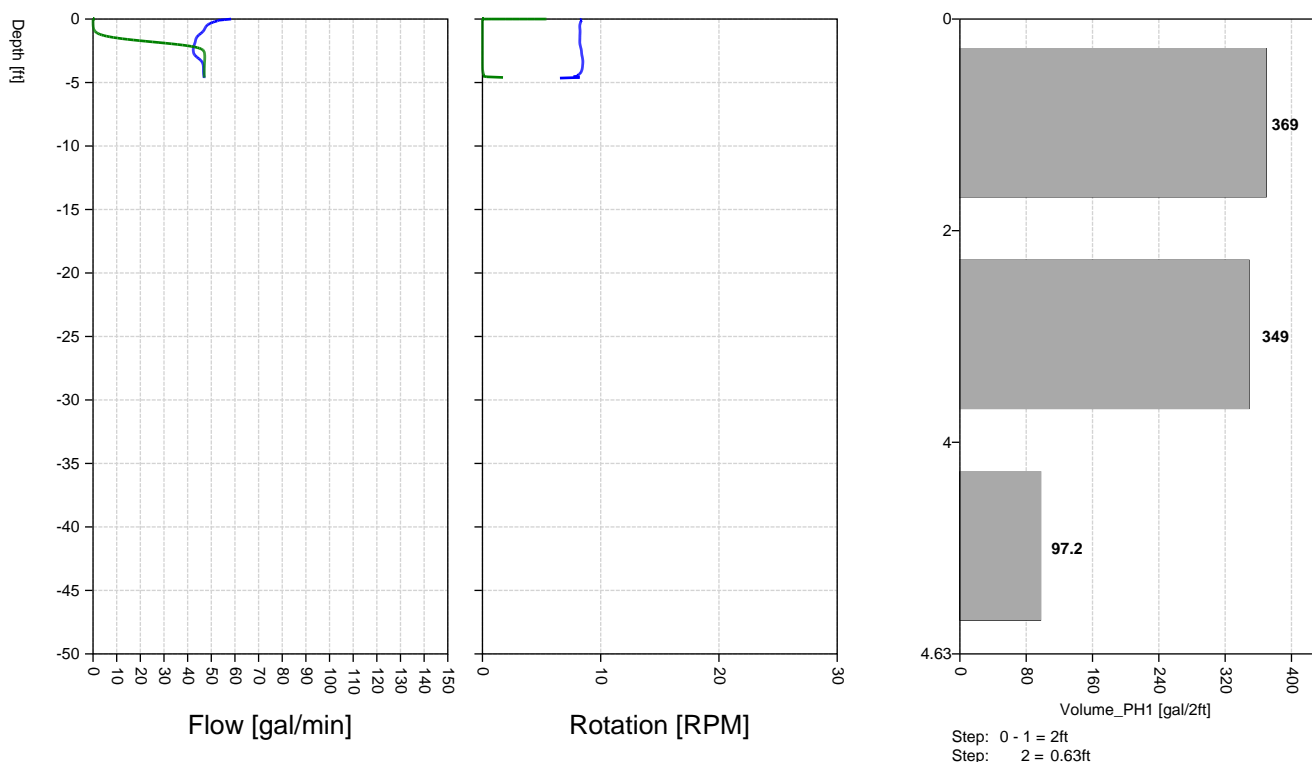
Date: 10/1/2024
 Start of production: 8:20:22 AM
 End of production: 8:41:20 AM
 Total time: 00:20:58
 Pause time: 00:00:00

Pile length: 4.63 ft
 Total Grout: 816 gal
 Strokes: 1

Parameters vs. Time



Parameters vs. Depth



Comment

Brooklyn, NY Auger ISS Report



Job Site Data

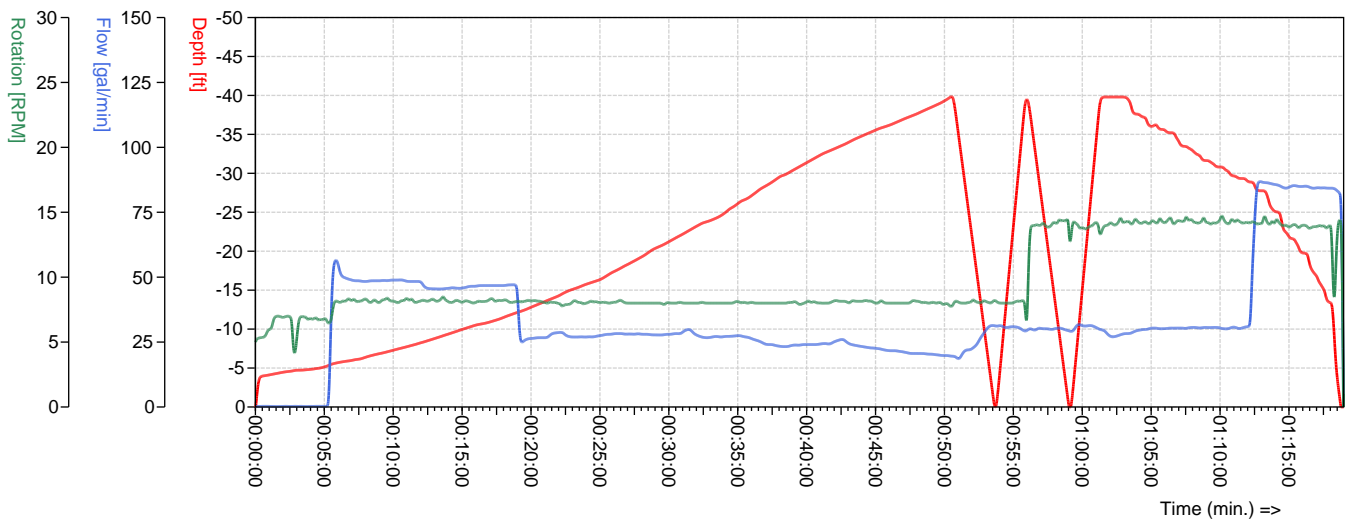
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 Equipment ID: Delmag Rig

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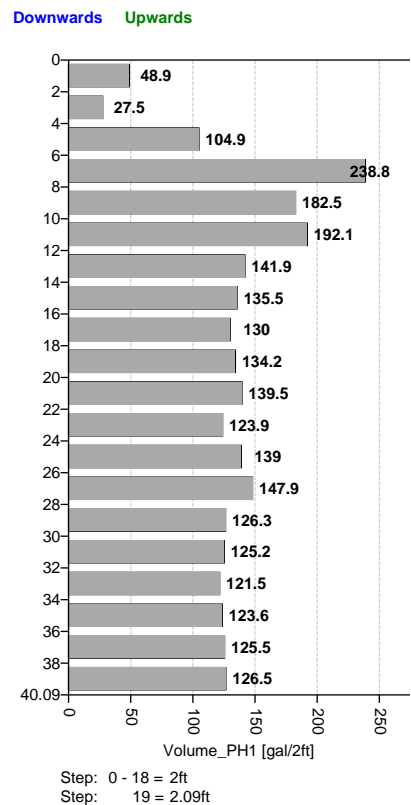
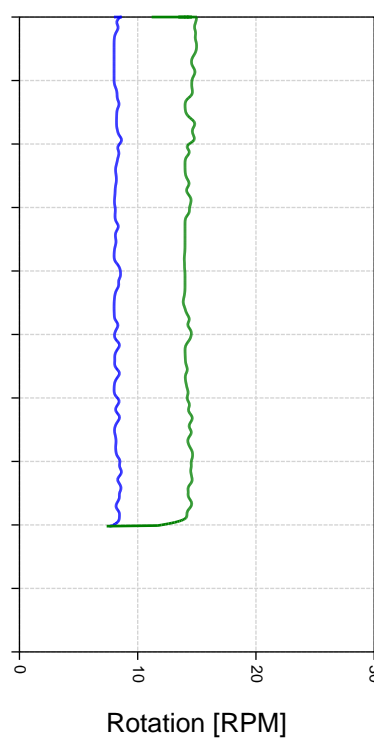
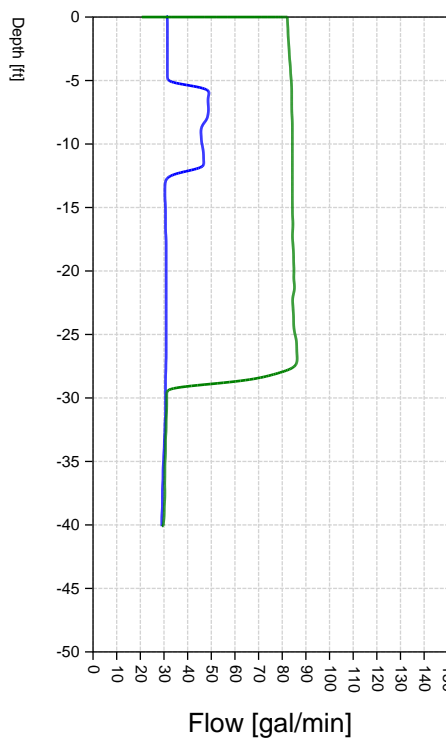
Date: 10/1/2024
 Start of production: 9:31:21 AM
 End of production: 10:50:18 AM
 Total time: 01:18:57
 Pause time: 00:00:00

Pile length: 40.09 ft
 Total Grout: 2643 gal
 Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment

Brooklyn, NY Auger ISS Report



Job Site Data

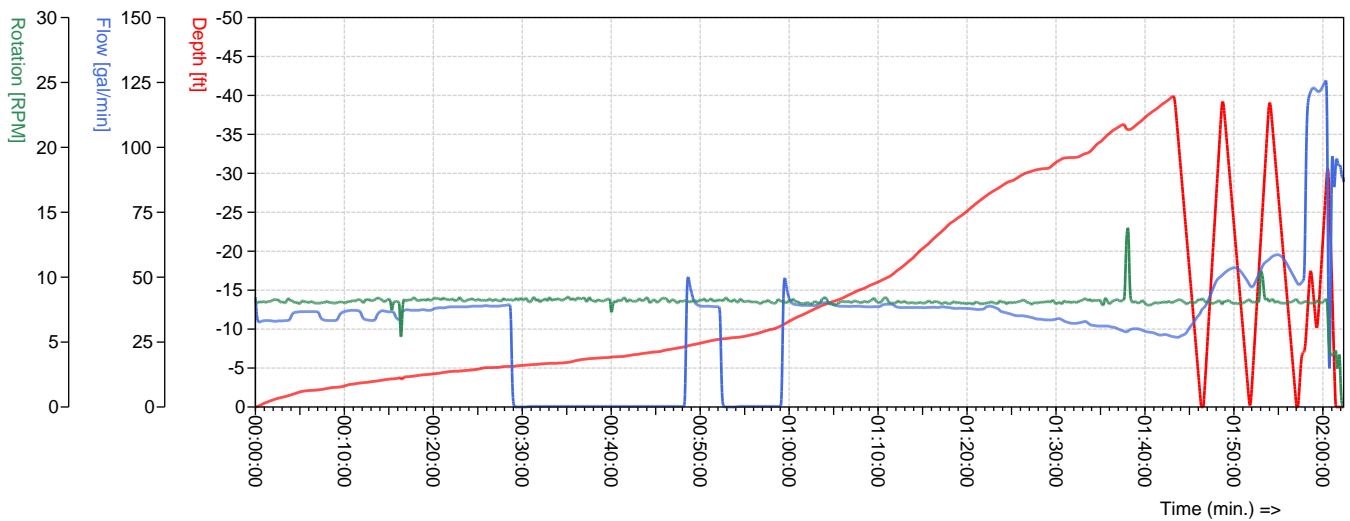
Project: Brooklyn, NY
 JobID: 24-071
 Client: Union LLC
 Contractor: Geo-Solutions
 Equipment ID: Delmag Rig

Data for Pile No: D7

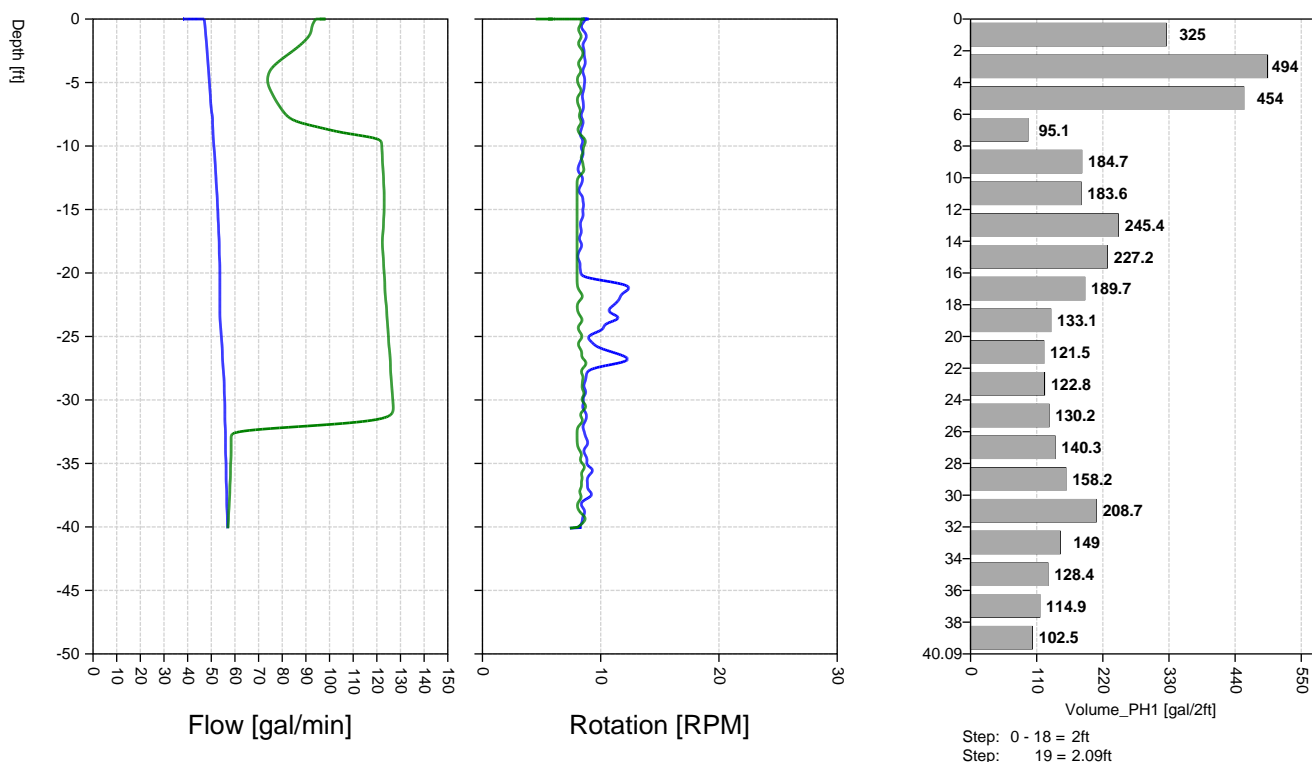
Date: 10/1/2024
 Start of production: 11:17:38 AM
 End of production: 1:19:57 PM
 Total time: 02:02:19
 Pause time: 00:00:00

Pile length: 40.09 ft
 Total Grout: 3920 gal
 Strokes: 4

Parameters vs. Time



Parameters vs. Depth



Comment