

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	

NYSDEC BCP Site No:	C224219	Date:	9/24/2024
Project Name:	450 Union Street, Brooklyn, NY		

Consultant: Vektor Consultants – Antonio Cardenas Visitors: WSP – Monica Pula and Aaron Schmidt	Personnel On-Site: Geo-Solutions Inc.- Subcontractor Time On-Site: 07:00 – 18:00
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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 four columns: C1, C2, D2, and E3. Three mixing passes were made for each column between working grade and 40 feet below grade.
- GSI attempted to begin their first mixing pass at column C3 but stopped due to an obstruction at 15 feet below grade. GSI attempted to remove the obstruction.
- 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 and sprayed with Biosolve foam.
- 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.
- GSI, Vektor and WSP took action based on a community complaint from September 23rd 2024 regarding odors from the ISS operations, spoils management and foaming on-site observed after hours. Vektor and WSP oversaw GSI implement soil management practices for ISS spoils (see 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: 0.0374 mg/m³

Highest Levels:

PID: 0.0 ppm Dust: 0.3676 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.
- Two particulate 15-minute average exceedances were recorded at the Downwind CAMP from 1:41 to 1:56 PM (Max. 0.3676 mg/m³) and from 3:41 to 3:56 PM (Max. 0.1847 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

- NYSDEC received a complaint from the community pertaining to the ISS swell material sitting within the berm with insufficient foam coverage and noting a Naphthalene smell. WSP personnel visited the site and confirmed NYSDEC's request for constant foam coverage for the berm and ISS swell material throughout the work day and a minimum of 6 inches of ATMOS foam for the ISS swell material stockpiled and within the work area at the end of the day.

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.

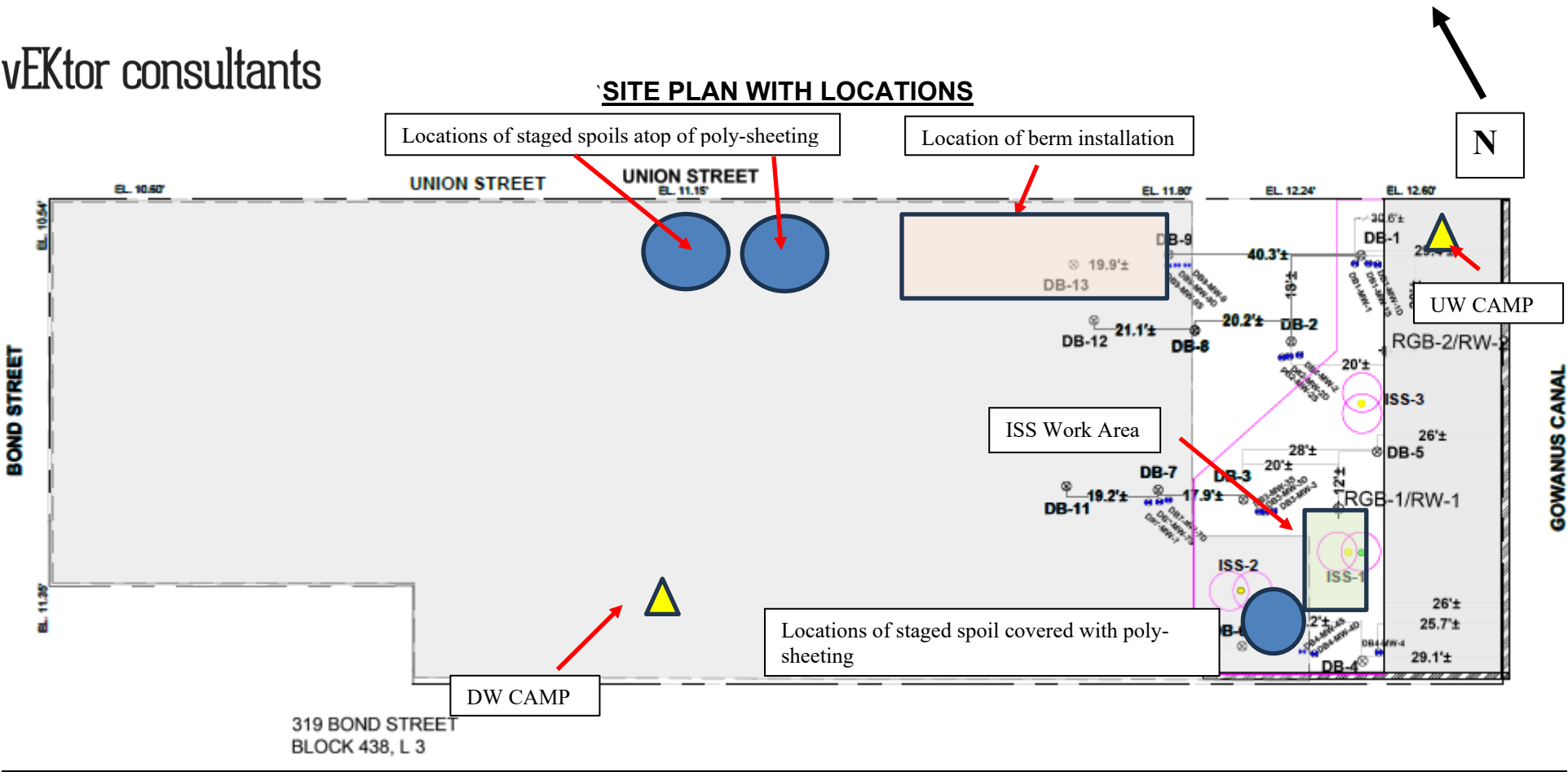


Photo Log

Photo 1:

View of GSI introducing 9% mixture at column/cell C2 with application of foam to mitigate odors, facing southwest.



Photo 2:

View of GSI applying foam to ISS swell material within the berm, facing west.



Photo 3:
View of GSI applying foam to ISS
swell material staged within the
drilling area, facing south.



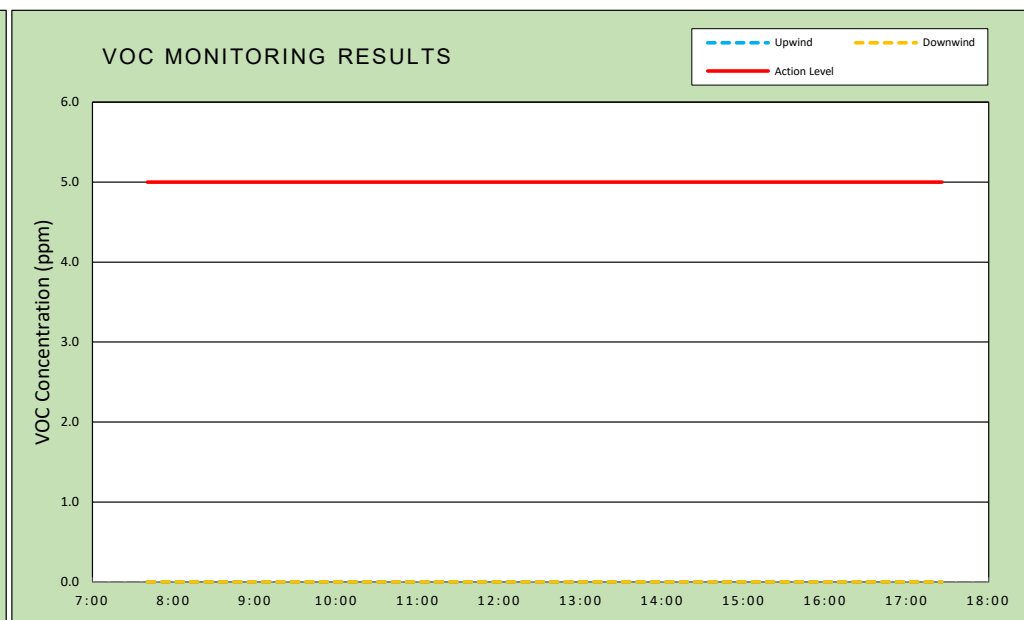
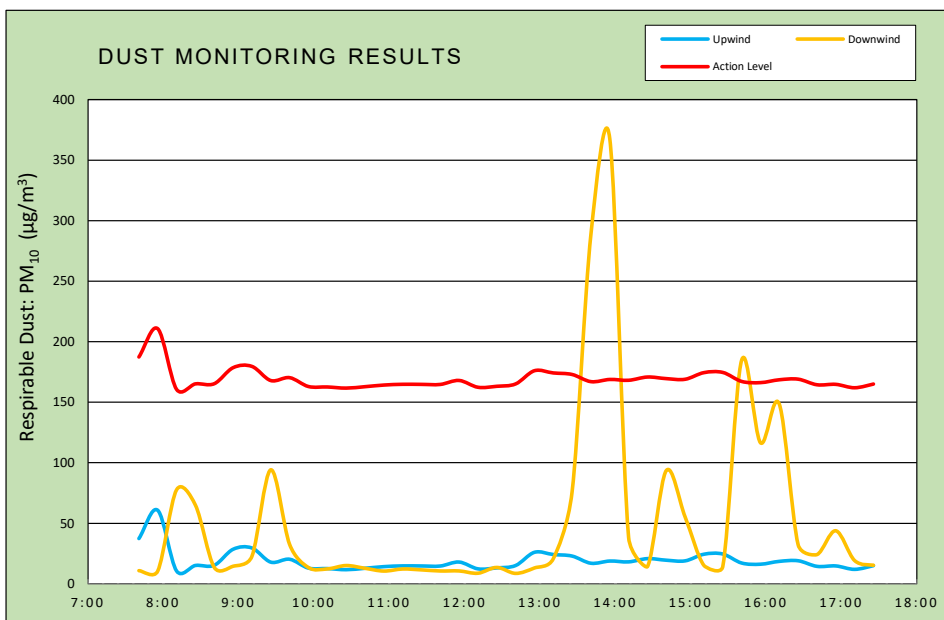
Photo 4:
GSI applying foam on top of spoils
within berm at the end of the day,
facing west.



vEKtor consultants	DAILY AIR MONITORING REPORT 450 Union Street Brooklyn, New York	09/24/2024	
		Rev. No. 0	Page 1 of 2
		Project Number:	
		Dust Action Level	150 µg/m ³
37 W. 37th St, 6th Floor - New York, NY		VOC Action Level	5 ppm

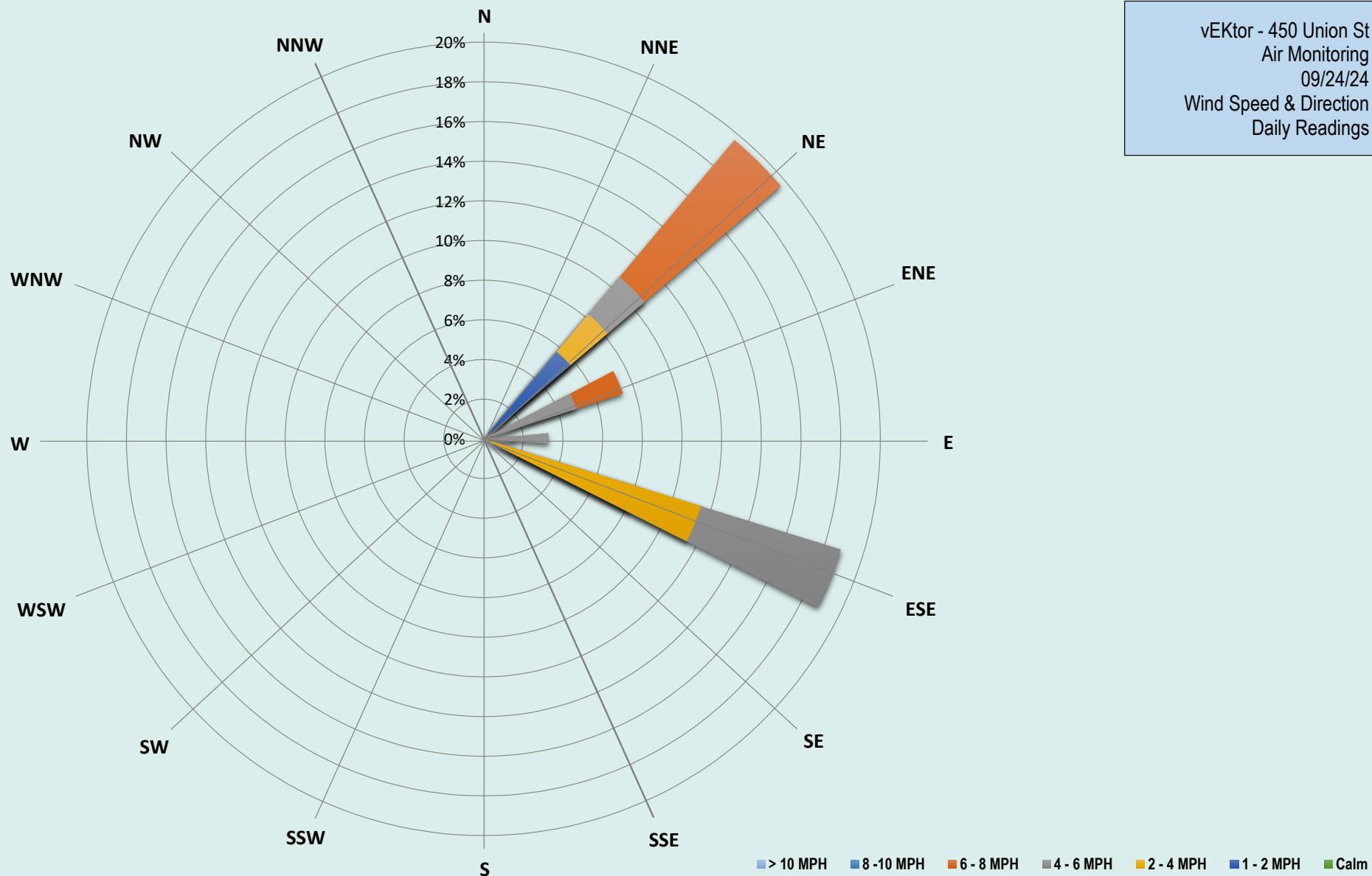
Weather Data Range for Work Day		Wind Direction	NE	Relative Humidity (%)	45.0 - 78.0	Daily Rain Total (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temperature (°F)	62.0 - 71.0	Wind Speed (MPH)	1.7 - 7.5	Barometer (inHg)	30.10 - 30.20	Avg. Dew Point Temp (°F)	51.8	

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	19.1	60.7	7:56	0.0	0.0	7:41
Downwind	51.2	367.6	13:56	0.0	0.0	7:41



Air Monitoring Notes:

Weather Notes:



Tuesday, September 24, 2024				
Number of Instances Where Downwind Particulates				3
Number of Comparable Data Points =				40
Start Time:				7:41
End Time:				17:26
PARTICULATE DATA				
Upwind		Downwind		Exceeds Particulate Alarm Limit
Time	15-Min Avg Concentration (ug/m ³)	Time	15-Min Avg Concentration (ug/m ³)	
7:41	37.4	7:41	10.9	-
7:56	60.7	7:56	10.5	-
8:11	10.6	8:11	77.6	-
8:26	15.1	8:26	65.0	-
8:41	15.3	8:41	13.6	-
8:56	28.5	8:56	14.5	-
9:11	29.6	9:11	22.7	-
9:26	17.9	9:26	94.2	-
9:41	20.3	9:41	32.6	-
9:56	13.0	9:56	13.4	-
10:11	12.6	10:11	12.3	-
10:26	11.7	10:26	15.1	-
10:41	12.8	10:41	12.8	-
10:56	14.2	10:56	10.5	-
11:11	14.8	11:11	12.2	-
11:26	14.7	11:26	11.5	-
11:41	14.7	11:41	10.6	-
11:56	18.0	11:56	10.6	-
12:11	12.4	12:11	8.7	-
12:26	13.2	12:26	13.5	-
12:41	15.1	12:41	8.6	-
12:56	26.0	12:56	13.1	-
13:11	24.2	13:11	20.7	-
13:26	22.9	13:26	76.1	-
13:41	17.0	13:41	288.9	X
13:56	18.8	13:56	367.6	X
14:11	18.1	14:11	38.3	-
14:26	20.8	14:26	14.2	-
14:41	19.5	14:41	93.6	-
14:56	19.0	14:56	55.2	-
15:11	24.4	15:11	15.1	-
15:26	24.6	15:26	14.3	-
15:41	17.2	15:41	184.7	X
15:56	16.2	15:56	116.5	-
16:11	18.5	16:11	148.4	-
16:26	19.0	16:26	32.3	-
16:41	14.4	16:41	24.1	-
16:56	14.8	16:56	43.8	-
17:11	11.9	17:11	19.2	-
17:26	15.0	17:26	15.3	-

Tuesday, September 24, 2024				
Number of Instances Where Downwind VOCs Exceeds				0
Number of Comparable Data Points =				0
Start Time:				7:41
End Time:				17:26
PID DATA				
Upwind		Downwind		Exceeds VOC Alarm Limit
Time	15-Min Avg Concentration (ppm)	Time	15-Min Avg Concentration (ppm)	
7:41	0.0	7:41	0.0	-
7:56	0.0	7:56	0.0	-
8:11	0.0	8:11	0.0	-
8:26	0.0	8:26	0.0	-
8:41	0.0	8:41	0.0	-
8:56	0.0	8:56	0.0	-
9:11	0.0	9:11	0.0	-
9:26	0.0	9:26	0.0	-
9:41	0.0	9:41	0.0	-
9:56	0.0	9:56	0.0	-
10:11	0.0	10:11	0.0	-
10:26	0.0	10:26	0.0	-
10:41	0.0	10:41	0.0	-
10:56	0.0	10:56	0.0	-
11:11	0.0	11:11	0.0	-
11:26	0.0	11:26	0.0	-
11:41	0.0	11:41	0.0	-
11:56	0.0	11:56	0.0	-
12:11	0.0	12:11	0.0	-
12:26	0.0	12:26	0.0	-
12:41	0.0	12:41	0.0	-
12:56	0.0	12:56	0.0	-
13:11	0.0	13:11	0.0	-
13:26	0.0	13:26	0.0	-
13:41	0.0	13:41	0.0	-
13:56	0.0	13:56	0.0	-
14:11	0.0	14:11	0.0	-
14:26	0.0	14:26	0.0	-
14:41	0.0	14:41	0.0	-
14:56	0.0	14:56	0.0	-
15:11	0.0	15:11	0.0	-
15:26	0.0	15:26	0.0	-
15:41	0.0	15:41	0.0	-
15:56	0.0	15:56	0.0	-
16:11	0.0	16:11	0.0	-
16:26	0.0	16:26	0.0	-
16:41	0.0	16:41	0.0	-
16:56	0.0	16:56	0.0	-
17:11	0.0	17:11	0.0	-
17:26	0.0	17:26	0.0	-

Project:	450 Union Remediation	Project No.:	24-071	Date:	09/24/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Tuesday
Owner:	2201 Union LLC	Superintendent:	Rick McKay	Days on Site:	35
Manager:	Trae Deri	Engineer:	Srujan Prasad	Shift Times:	7:00-17:00

Weather:					
Low:	60	Cloud Cover:	Cloudy	Wind:	5-10MPH
High:	70	Precipitation:	0"	Direction:	ENE

Description of Work Activities:					
<ul style="list-style-type: none"> - 0300, United Rentals was on site to pick up 300 Kobelco Excavator. - 0700 to 0715, GSI held a tailgate safety meeting and discussed the day's planned activities with site personnel. - 0715 to 0745, Prepped batch plant for production of grout and staked columns. - 0700 to 1500, GSI received a delivery of dyed diesel fuel and 2 loads of slag and a load of PC. - 0810, GSI started drilling columns C1,D2,C2 and completed to depth at 1246. - 1250 to 1315, GSI addressed the mechanical issue with the kelly bar and fixed it. - 1329, GSI started drilling column E3 and completed to depth at 1432, Following the completion of the column, GSI collected a sample at 28 ftbgs and casted the material into cylinders. - 1456, GSI started drilling columns C3 and had an obstruction at 14.37ftbgs, GSI attempted to clear the obstruction using Kobelco 210 excavator for 30 minutes. GSI was unsuccessful in removing the obstruction. The column was abandoned with remaining grout and spoils. GSI will relocate and attempt the column during the next shift. - 0800 to 1700, GSI used 2 barrels of foam towards the Northwest of the jobsite around the swell pond and drilling area. - 1710 to 1745, 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:					
GSI started drilling columns C3 and had an obstruction at 14.37ftbgs, GSI attempted to clear the obstruction using Kobelco 210 excavator for 30 minutes. GSI was unsuccessful in removing the obstruction. The column was abandoned with remaining grout and spoils. GSI will relocate and attempt the column during the next shift.					

Safety Topics:					
Discussed: Four Focus Items for Work Area Inspections.					

Rick McKay
 Foreman/Superintendent

09/24/24
 Date

Project:	450 Union Remediation	Project No.:	24-071	Date:	09/24/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Tuesday
Owner:	2201 Union LLC	Superintendent:	Rick McKay	Days on Site:	35
Manager:	Trae Deri	Engineer:	Srujan Prasad	Shift Times:	7:00-17:00
Production:			Completion:		
Today:	346.89 CY	5 Columns	61% Columns		
To-Date:	2,526.57 CY	27 Columns			
Materials Received:					
Material	Unit	Today	Total	Notes	
Slag- Grade 120	Ton	51	305		
Portland Cement - Type 1L	Ton	25	141		
Disposal Trucks	N/A	0	18		
Hours	Equipment	Task	Hours	Employees On Site	Trade
11.0	Offroad Forklift	Material Handling	11.0	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	11.0	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	Christopher Ramdial	OILER
11.0	250kw Generator	Batch Plant			
121	TOTAL DAY HOURS		112	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

09/24/24

Date

Project:	450 Union Remediation	Project No:	24-071	Date:	09/24/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Tuesday
Owner:	2201 Union LLC	Superintendent	Rick McKay	Days on Site:	35
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	%	
9/24/2024	C1	8:09	9:30	12.0	-28.1	40.1	3	10	3	14	64.6	95.99	4,288	4,413	9.0%	18,406	6.2%	9,203	3.1%	1.0
9/24/2024	D2	9:54	11:03	12.0	-28.1	40.1	3	10	2	38	40.6	60.40	2,698	3,190	9.0%	13,305	7.1%	6,652	3.5%	1.0
9/24/2024	C2	11:18	12:46	12.0	-28.1	40.1	3	10	4	36	42.7	63.48	2,836	3,543	9.0%	14,777	7.5%	7,389	3.7%	1.0
9/24/2024	E3	13:28	14:32	12.0	-28.1	40.1	3	10	1	16	62.3	92.37	4,126	4,347	9.0%	18,130	6.3%	9,065	3.2%	1.0
9/24/2024	C3	14:56	16:32	12.0	-2.4	14.4	3	10	3	13	65.1	34.65	1,548	2,134	9.0%	8,900	8.3%	4,450	4.1%	1.0
												Production Today	346.89 CY	Material Used Today		36.8	Tons	18.4	Tons	
												Production To-Date	2526.57 CY	Material Used To-Date		266.8	Tons	133.4	Tons	

Comments:
 - GSI sampled column E3 at a depth of 28 feet.

Discussed:

Rick McKay
 Foreman/Superintendent

SIGNED: _____
 Client QC Manager

Project:	450 Union Remediation	Project No.:	24-071	Date:	09/24/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Tuesday
Owner:	2201 Union LLC	Superintendent:	Rick Mckay	Days on Site:	35
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.
9/24/2024	8:45	1.0:1	1.51
9/24/2024	10:55	1.0:1	1.51
9/24/2024	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	Project No.: 24-071	9/19/2024 9/24/2024
Client: 2201 Union LLC	Location: Brooklyn, NY	Day of Week: Tuesday
Owner: 2201 Union LLC	Superintendent: Rick McKay	2/1/1900 35
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	
				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	2.1E-08	
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					
9/24/24	2:40 PM	E3	28	6	6					

Comments:

Rick McKay

Foreman/Superintendent

Client QC Manager

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

[illegible]

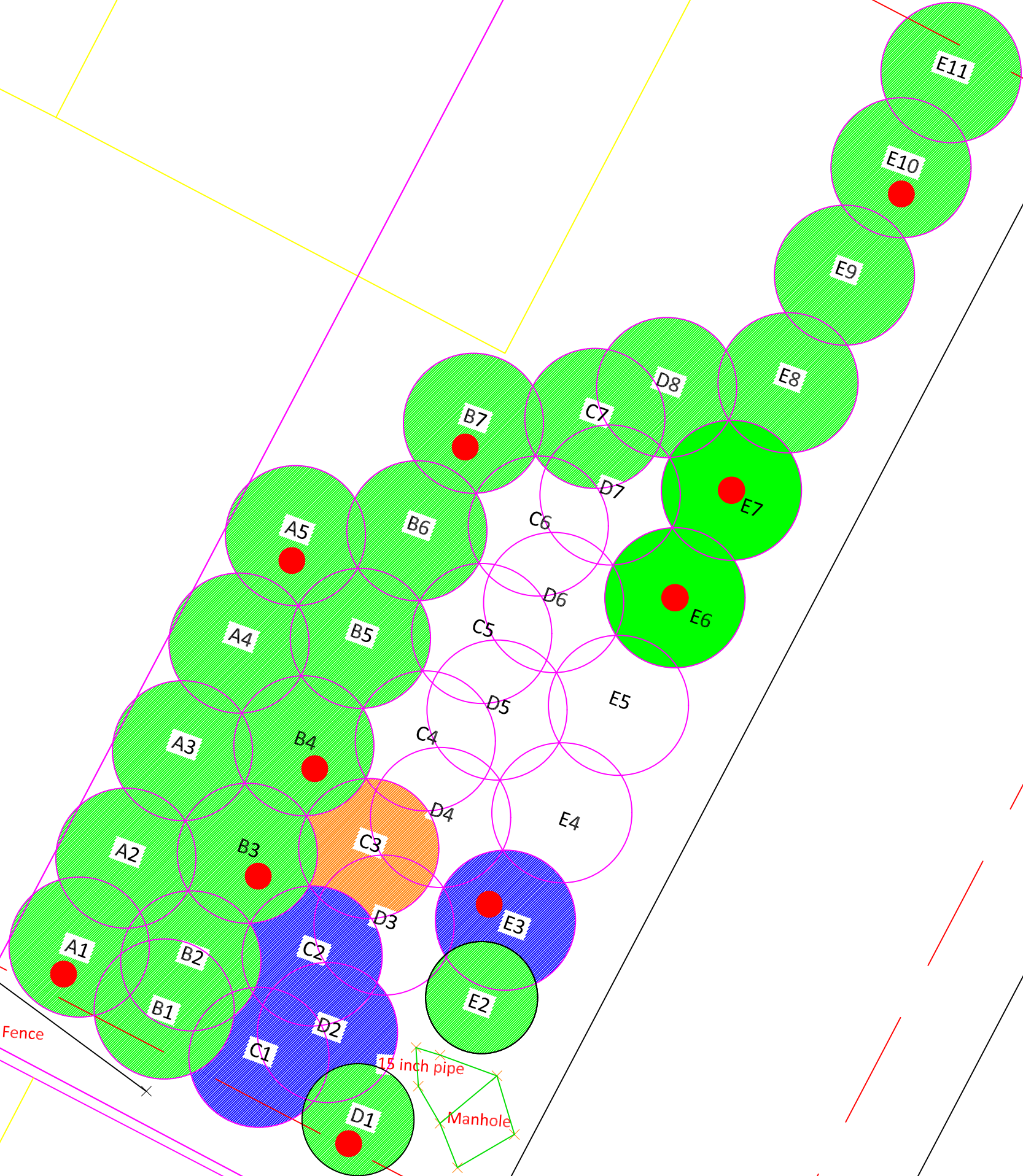


1250 Fifth Avenue, New Kensington, PA 15068
Tel: 724-335-7273 Fax: 724-335-7271
www.geo-solutions.com

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

[illegible]

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



GOWANUS CANAL

GOWANUS

CANAL

REV					DESCRIPTION					CHECKED				
A					Revise					APPROVED				
B					Revise					REV				
C					Revise					APPROVED				

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Brooklyn, NY Auger ISS Report



Job Site Data

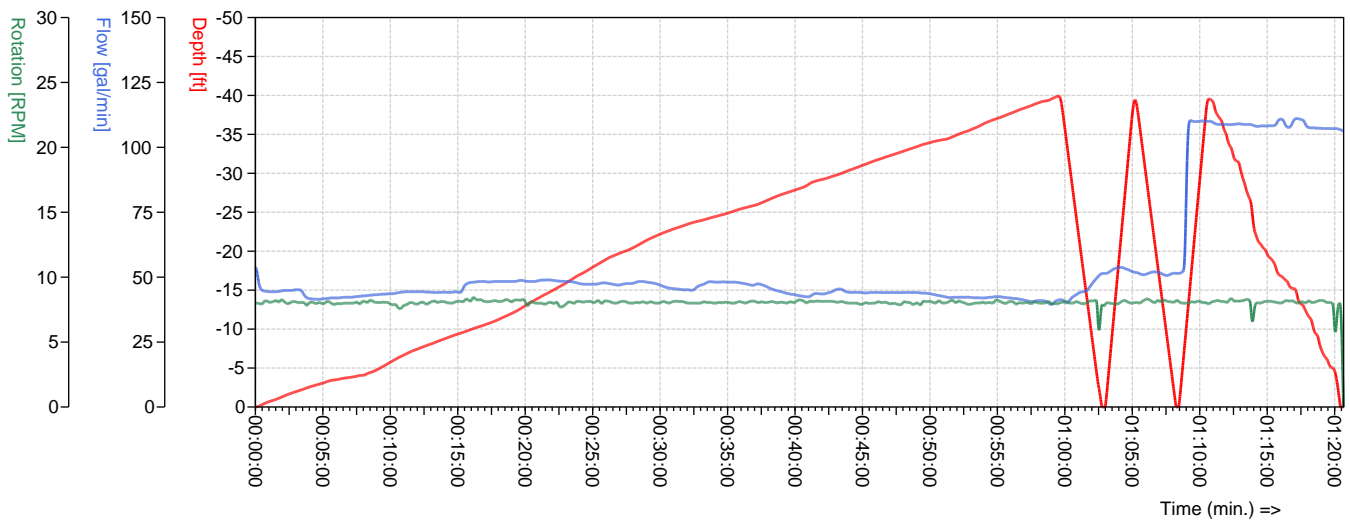
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: C1

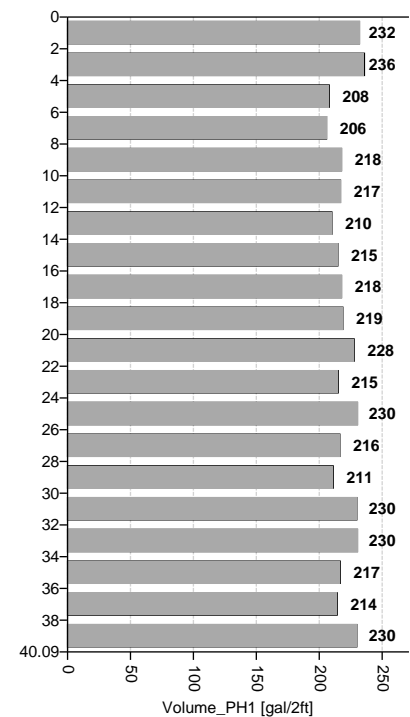
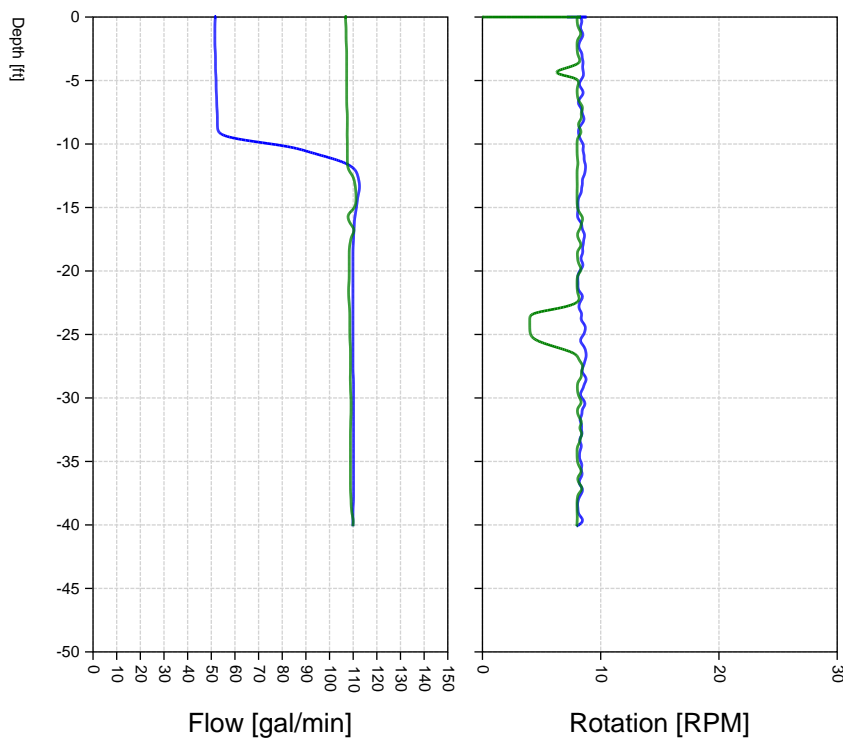
Date: 9/24/2024
Start of production: 8:09:51 AM
End of production: 9:30:30 AM
Total time: 01:20:39
Pause time: 00:00:00

Pile length: 40.09 ft
Total Grout: 4413 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Step: 0 - 18 = 2ft
Step: 19 = 2.09ft

Comment

Brooklyn, NY Auger ISS Report



Job Site Data

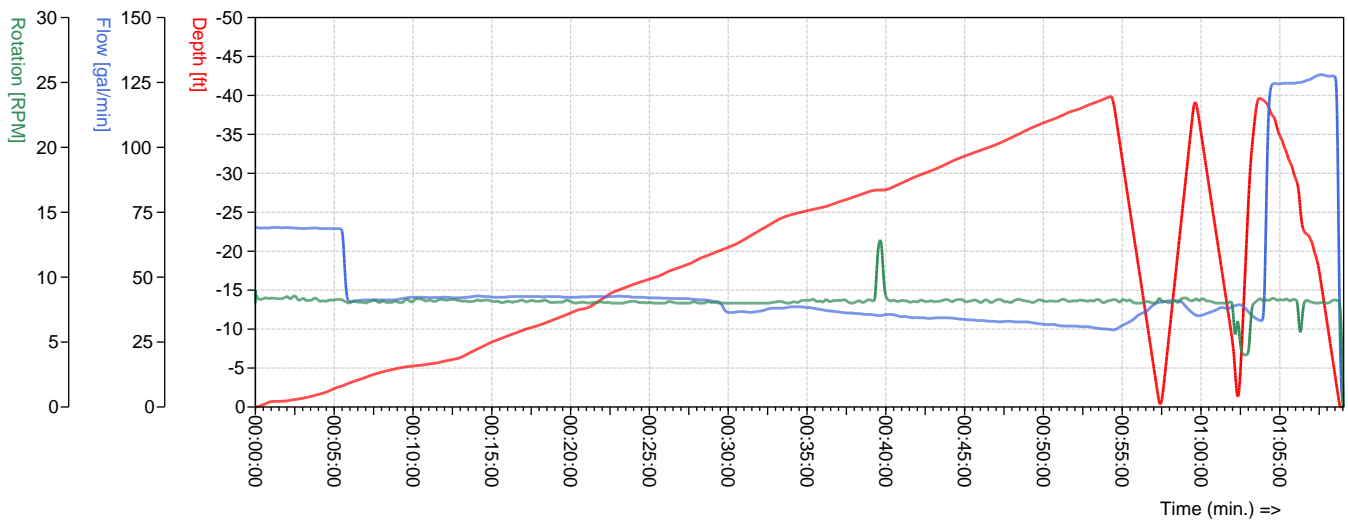
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: D2

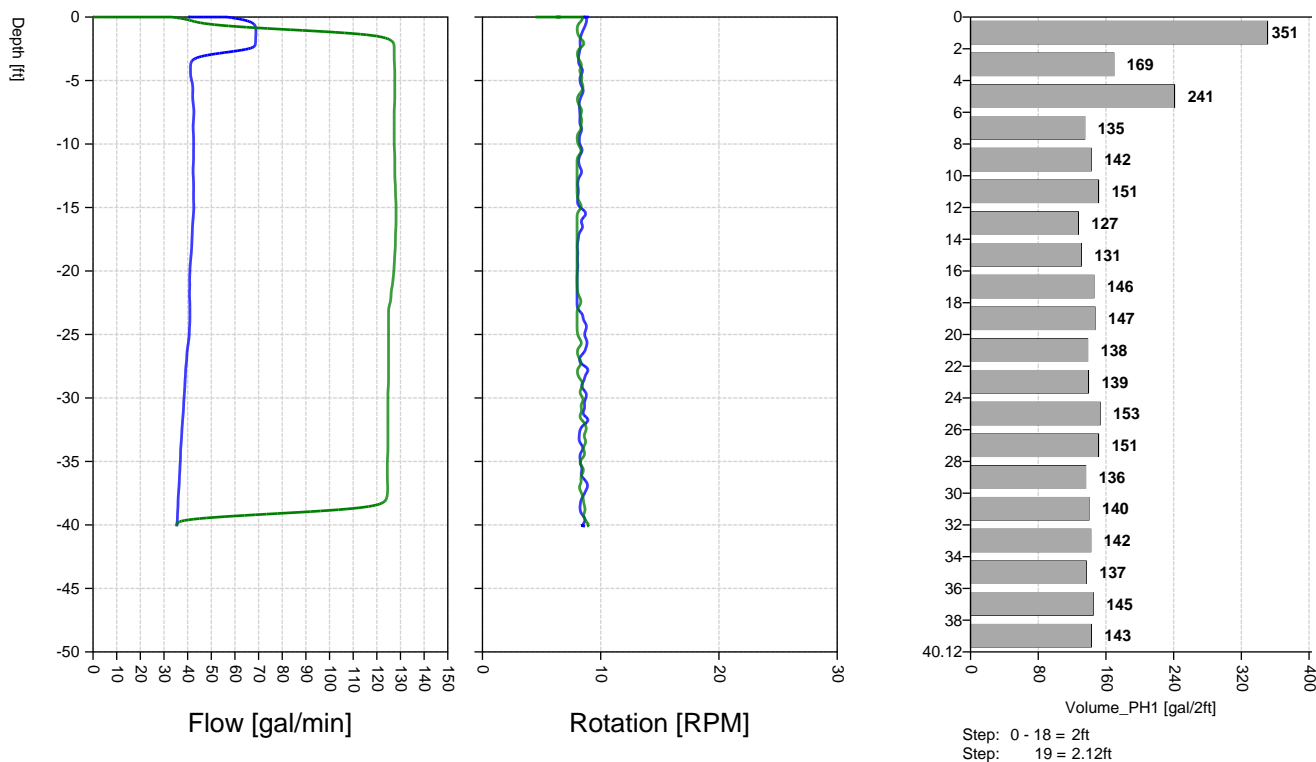
Date: 9/24/2024
Start of production: 9:54:18 AM
End of production: 11:03:20 AM
Total time: 01:09:02
Pause time: 00:00:00

Pile length: 40.12 ft
Total Grout: 3190 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment

Brooklyn, NY Auger ISS Report



Job Site Data

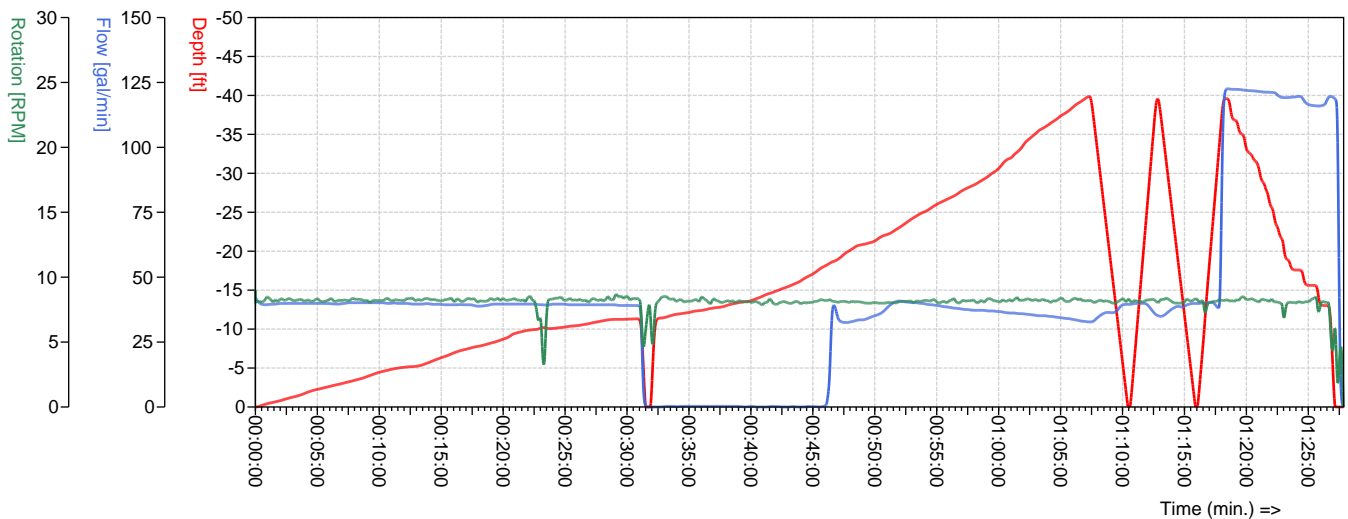
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: C2

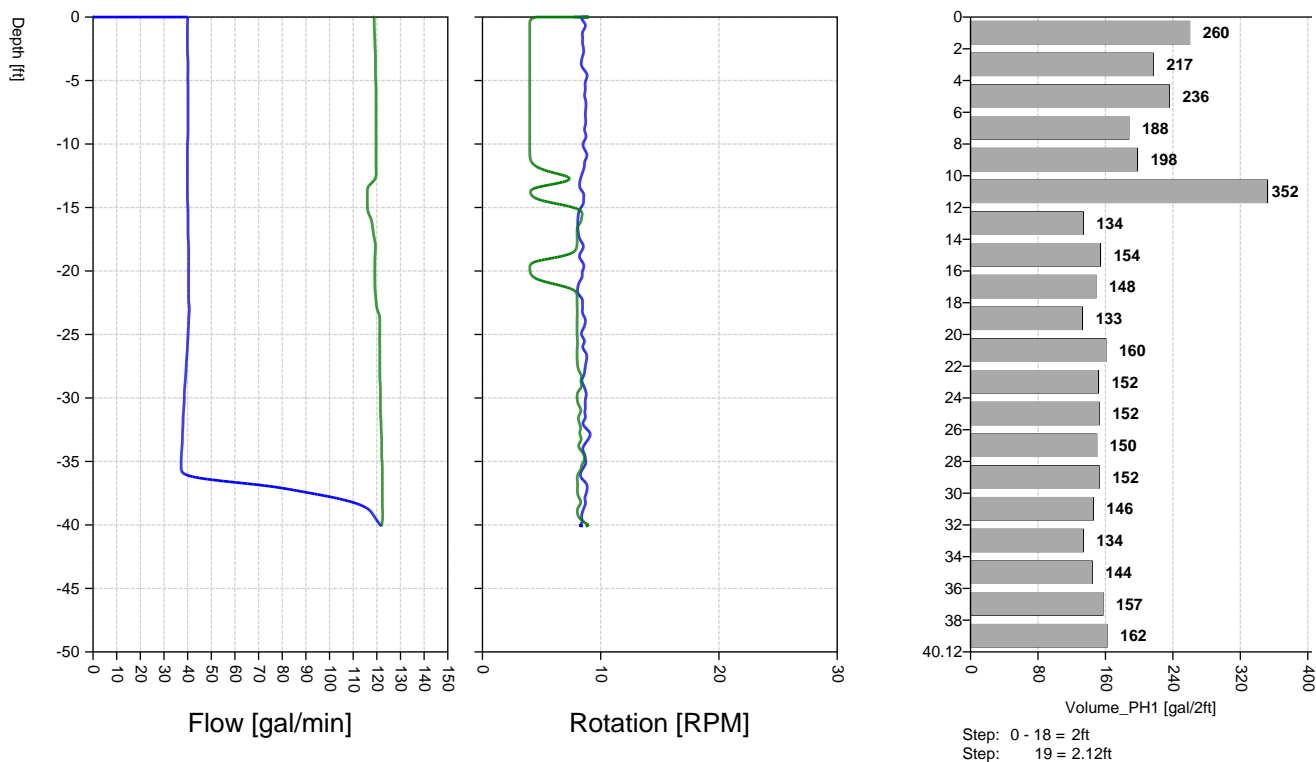
Date: 9/24/2024
Start of production: 11:18:38 AM
End of production: 12:46:28 PM
Total time: 01:27:50
Pause time: 00:00:00

Pile length: 40.12 ft
Total Grout: 3543 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment

Brooklyn, NY Auger ISS Report



Job Site Data

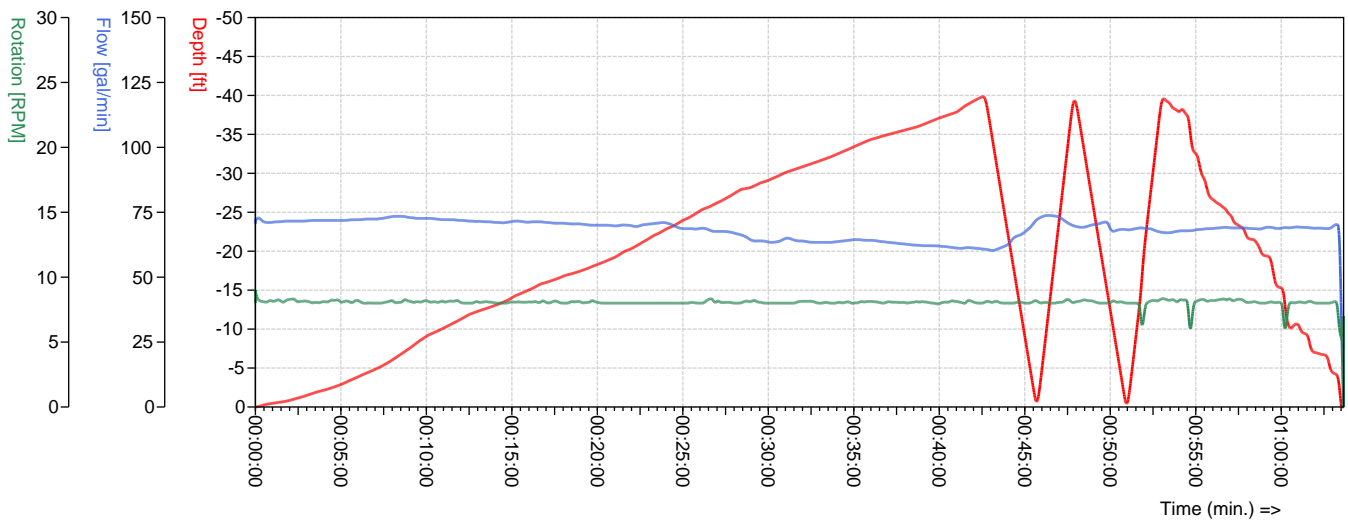
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: E3

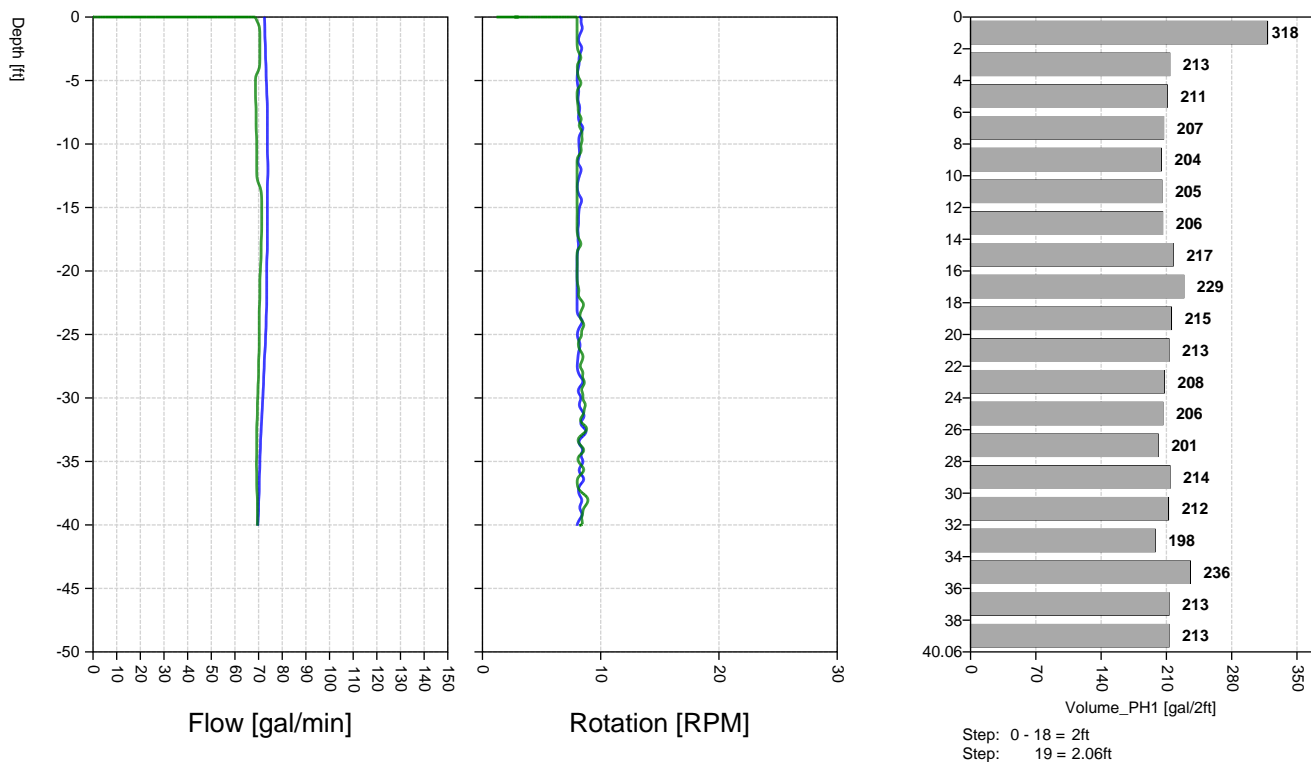
Date: 9/24/2024
Start of production: 1:28:32 PM
End of production: 2:32:10 PM
Total time: 01:03:38
Pause time: 00:00:00

Pile length: 40.06 ft
Total Grout: 4347 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment

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Job Site Data

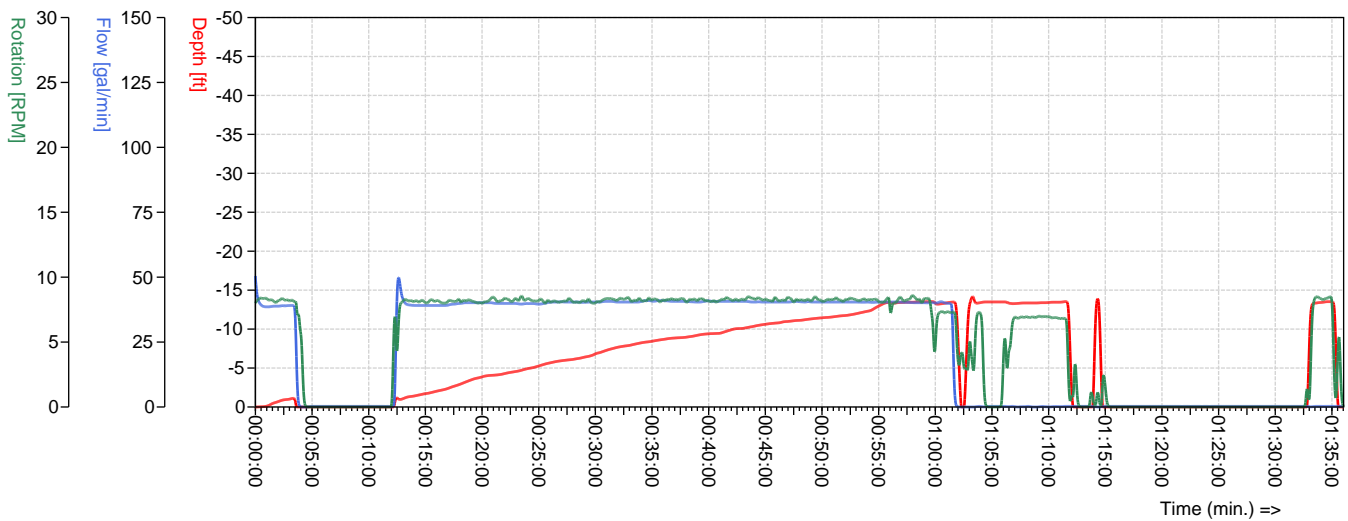
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: C3

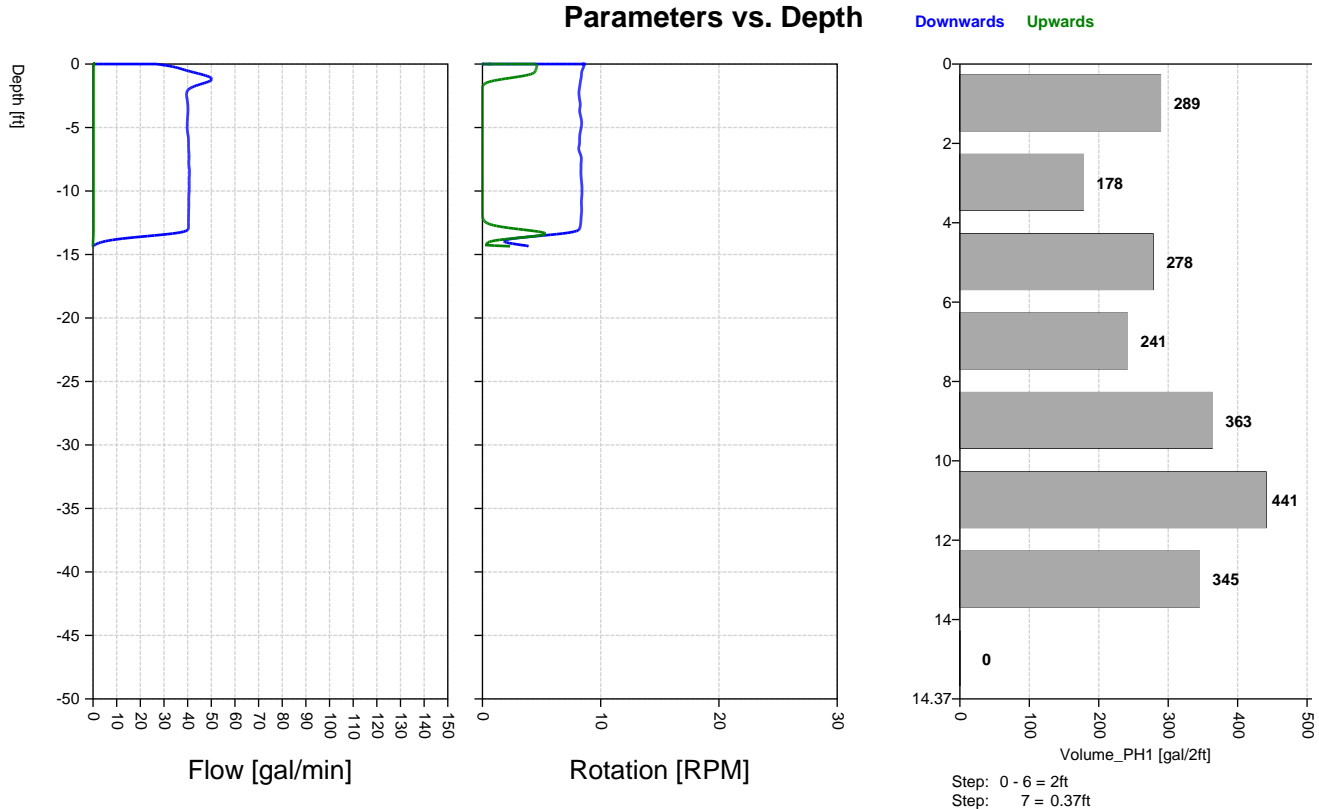
Date: 9/24/2024
Start of production: 2:56:28 PM
End of production: 4:32:29 PM
Total time: 01:36:01
Pause time: 00:00:00

Pile length: 14.37 ft
Total Grout: 2134 gal
Strokes: 4

Parameters vs. Time



Parameters vs. Depth



Comment