

DAILY STATUS REPORT

Prepared By: Riley Farbstein

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

NYSDEC BCP Site No:	C224219	Date:	9/26/2024
Project Name:	450 Union Street, Brooklyn, NY		

Consultant: Vektor Consultants – Riley Farbstein Visitors: NYSDEC – Meghan Medwid WSP – Monica Pula and 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 one column: D3. Three mixing passes were made for the column between working grade and 40 feet below grade.
- GSI applied Biosolve deodorizer into the drilling locations and excavation locations.
- Batch plant material deliveries and general housekeeping measures continued, as needed.
- Vektor, NYSDEC 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 southeast of the Site and the Downwind CAMP station was in the northwest portion of the Site as the wind was consistently coming from the southeast.

Background Levels (Initial Readings at Start of Day):
 PID: 0.0 ppm Dust: 0.0228 mg/m³

Highest Levels:
 PID: 0.0 ppm Dust: 0.0291 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

- Work was paused between 07:00 – 13:30 by NYSDEC to ensure all parties discussed proper means and methods to proceed with work, including the use of foam during invasive work and stockpile management. GSI, NYSDEC, Vektor and ownership participated in a meeting discussing further steps to be implemented to prevent any future community complaints while remaining complaint with the approved work plan.

Planned Activities for the Next Day

- Drilling of two overlapped 12% columns.
- Continuation of full-scale ISS operations (under the NYSDEC approved RSO Work Plan).
- Continued decommissioning one remaining recovery well (RW-2) within the work area via NYSDEC’s CP-43 Well Decommissioning Policy.

SITE PLAN WITH LOCATIONS

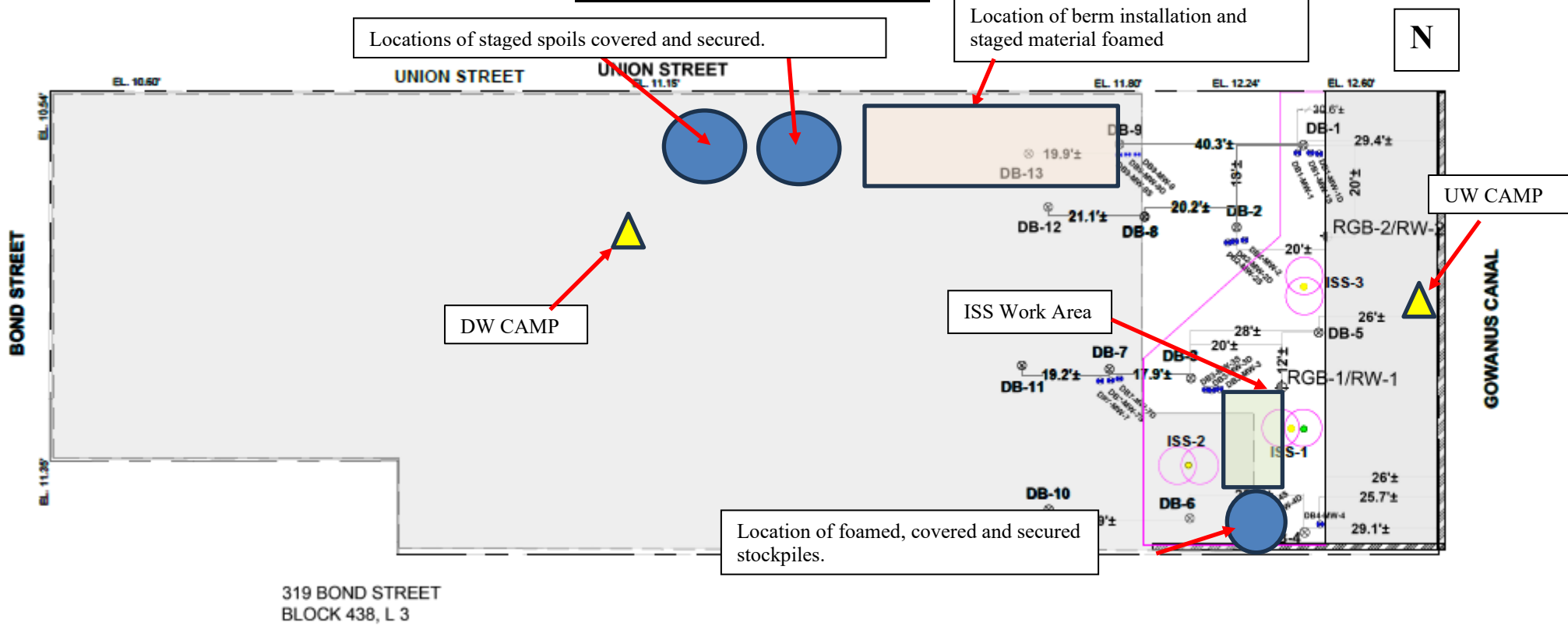


Photo Log

Photo 1:
View of upwind CAMP, facing east.



Photo 2:
GSI applying foam during ISS at column D3, facing southwest.



Photo 3:
Poly sheeting is placed atop of ISS
spoils and secured at the end of the
day, facing southwest.



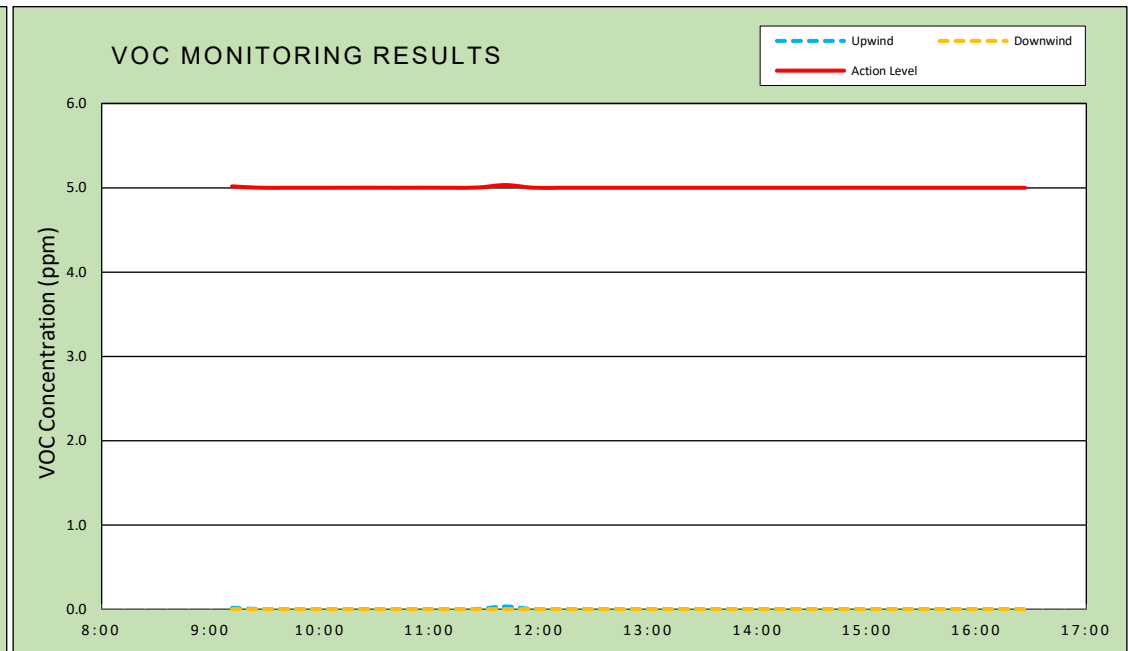
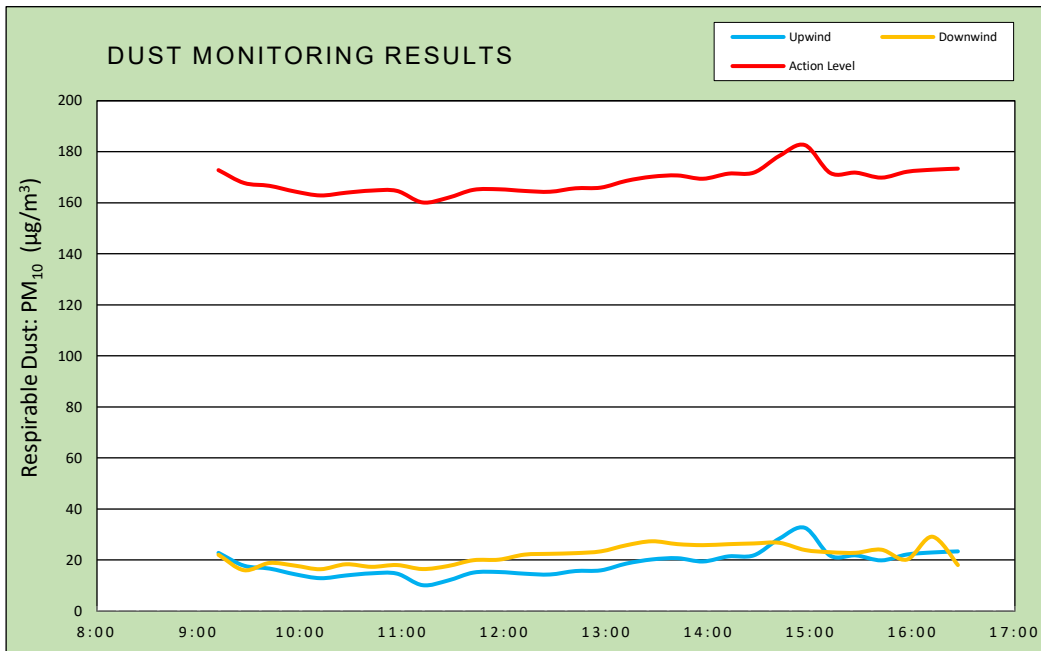
Photo 4:
Poly coverage on top of spoils within
berm at the end of the day after being
secured, facing north.



vEktor consultants 37 W. 37th St, 6th Floor - New York, NY	DAILY AIR MONITORING REPORT 450 Union Street Brooklyn, New York				09/26/2024	
					Rev. No. 0	Page 1 of 2
	Project Number:					
	Dust Action Level				150 $\mu\text{g}/\text{m}^3$	
VOC Action Level				5 ppm		

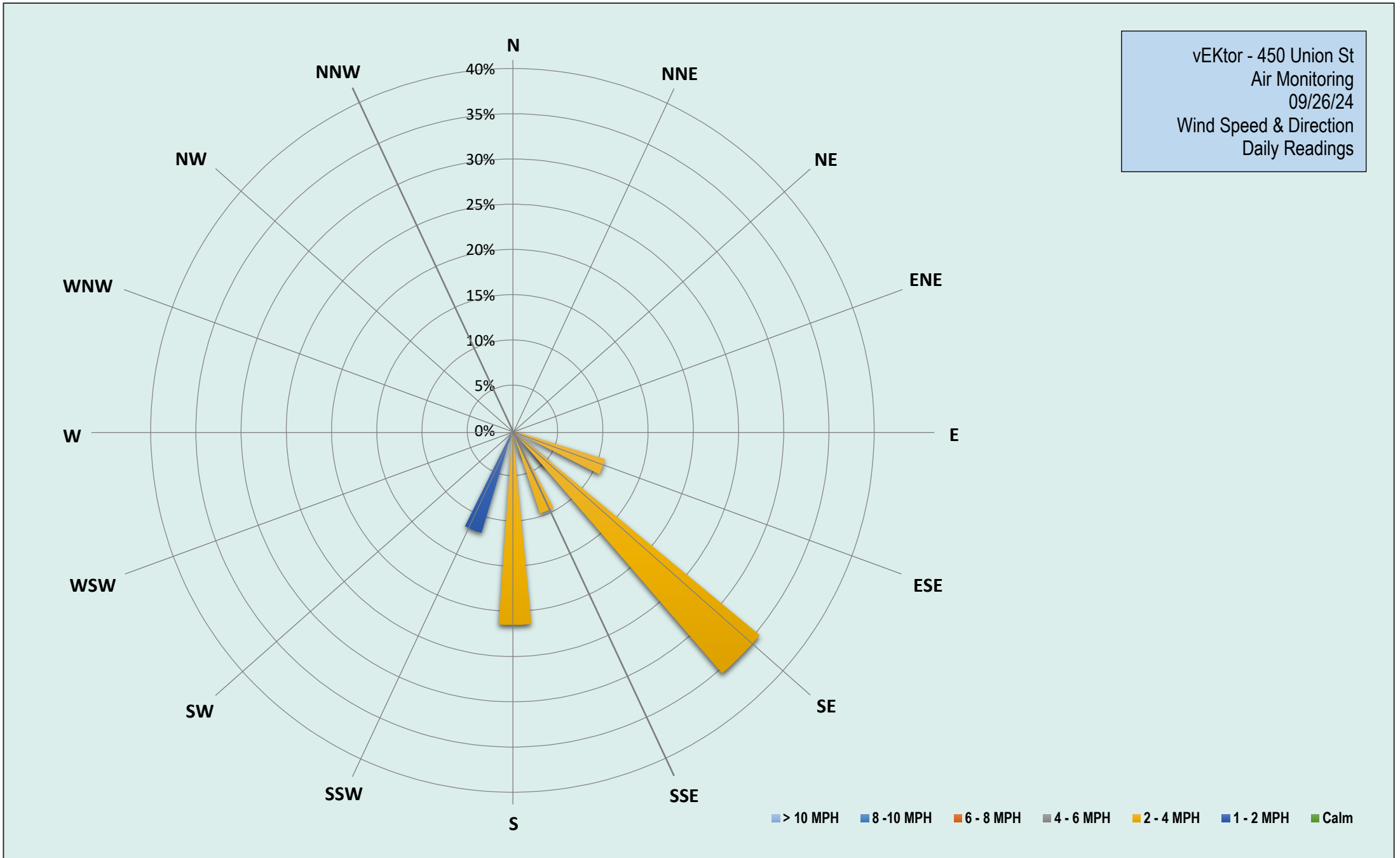
Weather Data Range for Work Day		Wind Direction	SE	Relative Humidity (%)	88.0 - 98.0	Daily Rain Total (in)	0.12	Readings in the summary table and graphs below are the reported downwind concentrations.
Temperature (°F)	68.0 - 75.0	Wind Speed (MPH)	1.7 - 8.1	Barometer (inHg)	30.00 - 30.10	Avg. Dew Point Temp (°F)	69.2	

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	18.6	32.6	14:57	0.0	0.0	11:42
Downwind	21.7	29.1	16:12	0.0	0.0	9:12



Air Monitoring Notes:

Weather Notes:



Thursday, September 26, 2024				
Number of Instances Where Downwind Particulates				0
Number of Comparable Data Points =				30
Start Time:				9:12
End Time:				16:27
PARTICULATE DATA				
Upwind		Downwind		Exceeds Particulate Alarm Limit
Time	15-Min Avg Concentration (ug/m ³)	Time	15-Min Avg Concentration (ug/m ³)	
9:12	22.8	9:12	22.1	-
9:27	17.8	9:27	16.0	-
9:42	16.7	9:42	18.8	-
9:57	14.4	9:57	17.8	-
10:12	12.9	10:12	16.4	-
10:27	14.0	10:27	18.3	-
10:42	14.8	10:42	17.3	-
10:57	14.7	10:57	18.0	-
11:12	10.2	11:12	16.5	-
11:27	12.0	11:27	17.7	-
11:42	15.1	11:42	19.9	-
11:57	15.3	11:57	20.2	-
12:12	14.7	12:12	22.1	-
12:27	14.3	12:27	22.4	-
12:42	15.7	12:42	22.7	-
12:57	16.0	12:57	23.4	-
13:12	18.6	13:12	25.8	-
13:27	20.2	13:27	27.4	-
13:42	20.7	13:42	26.2	-
13:57	19.4	13:57	25.8	-
14:12	21.4	14:12	26.2	-
14:27	21.9	14:27	26.5	-
14:42	28.4	14:42	26.8	-
14:57	32.6	14:57	23.9	-
15:12	21.7	15:12	23.1	-
15:27	21.8	15:27	22.8	-
15:42	19.9	15:42	24.1	-
15:57	22.2	15:57	20.2	-
16:12	23.0	16:12	29.1	-
16:27	23.4	16:27	18.0	-

Thursday, September 26, 2024				
Number of Instances Where Downwind VOCs Exceeds				0
Number of Comparable Data Points =				0
Start Time:				9:12
End Time:				16:27
PID DATA				
Upwind		Downwind		Exceeds VOC Alarm Limit
Time	15-Min Avg Concentration (ppm)	Time	15-Min Avg Concentration (ppm)	
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	-

Project: 450 Union Remediation	Project No.: 24-071	Date: 09/26/24
Client: 2201 Union LLC	Location: Brooklyn, NY	Day of Week: Thursday
Owner: 2201 Union LLC	Superintendent: Rick McKay	Days on Site: 37
Manager: Trae Deri	Engineer: Srujan Prasad	Shift Times: 7:00-17:00

Weather:		
Low: 65	Cloud Cover: Rainy	Wind: 10-15MPH
High: 77	Precipitation: 0.15"	Direction: S

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 0900, GSI started foaming the swell pond and all the stockpiled swell materials and also covered them by using poly-lined.
- 0930, GSI received a delivery of 283.6 gallons of dyed diesel fuel.
- 0900 to 1200, GSI performed general maintenance, house keeping and fueled all the equipment's.
- 1330 to 1400, Prepped batch plant for production of grout and staked columns.
- 1425, GSI started drilling column D3 and completed to depth at 1534, Following the completion of the column, GSI collected a sample at 39 ftbgs and casted the material into cylinders.
- 1500, GSI received 8 barrels of foam.
- 0800 to 1700, GSI used 3 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.

- 1800, All GSI personnel offsite.

Conversation with Client/Inspector:

Production Delays:

Safety Topics:
 Discussed: Trip Injuries and Prevention Safety Talk.

Rick McKay
Foreman/Superintendent

09/26/24
Date

Project: 450 Union Remediation	Project No.: 24-071	Date: 09/26/24			
Client: 2201 Union LLC	Location: Brooklyn, NY	Day of Week: Thursday			
Owner: 2201 Union LLC	Superintendent: Rick Mckay	Days on Site: 37			
Manager: Trae Deri	Engineer: Srujan Prasad	Shift Times: 7:00-17:00			
Production:		Completion:			
Today: 37.82 CY	1 Columns	81% Columns			
To-Date: 2,833.16 CY	30 Columns				
Materials Received:					
Material	Unit	Today	Total	Notes	
Slag- Grade 120	Ton	0	330		
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	11.0	Rick McKay	SUPT
10.0	Conex box(1)	Storage	11.0	Srujan Prasad	ENG
10.0	300kw Generator	Batch Plant	11.0	Eric Shannon	DRILL
10.0	Lo-pro silo(2)	Cement Storage	10.0	Miguel Maldonado	LAB
10.0	Flash mixers (2)	Batch Plant	10.0	Daniel Santos	BPO
10.0	Moyno pump(2)	Batch Plant	10.0	Peter Liota	OP
10.0	Delmag Hydraulic Rig	ISS Mixing	10.0	Steven Reda	LAB
10.0	Manlift(1)	Maintenance	10.0	Louis Passannante	OP
10.0	Kobelco 210 Excavaor	ISS Mixing	10.0	Christopher Ramdial	OILER
10.0	250kw Generator	Batch Plant			
110	TOTAL DAY HOURS		93	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

09/26/24

Date

Project: 450 Union Remediation	Project No: 24-071	Date: 09/26/24
Client: 2201 Union LLC	Location: Brooklyn, NY	Day of Week: Thursday
Owner: 2201 Union LLC	Superintendent: Rick Mckay	Days on Site: 37
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	%		
9/26/2024	D3	14:25	15:34	12.0	-28.1	40.1	3	10	5	13.9	25.5	37.82	1,690	2,243	9.0%	9,355	8.0%	4,678	4.0%	1.0	
												Production Today	37.82 CY	Material Used Today		4.7	Tons	2.3	Tons		
												Production To-Date	2833.16 CY	Material Used To-Date		297.2	Tons	148.6	Tons		

Comments:
 - GSI sampled column C4 at a depth of 34 feet.

Discussed:

Rick Mckay
 Foreman/Superintendent

SIGNED: _____
 Client QC Manager

Project:	450 Union Remediation	Project No.:	24-071	Date:	09/26/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Thursday
Owner:	2201 Union LLC	Superintendent:	Rick Mckay	Days on Site:	37
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.
9/26/2024	15:10	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 9/26/2024
Client: 2201 Union LLC	Location: Brooklyn, NY	Day of Week: Thursday
Owner: 2201 Union LLC	Superintendent: Rick McKay	2/1/1900 37
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	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	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						
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						
9/25/24	4:15 PM	C4	34	6	6						
9/26/24	3:50 PM	D3	39	4	4						

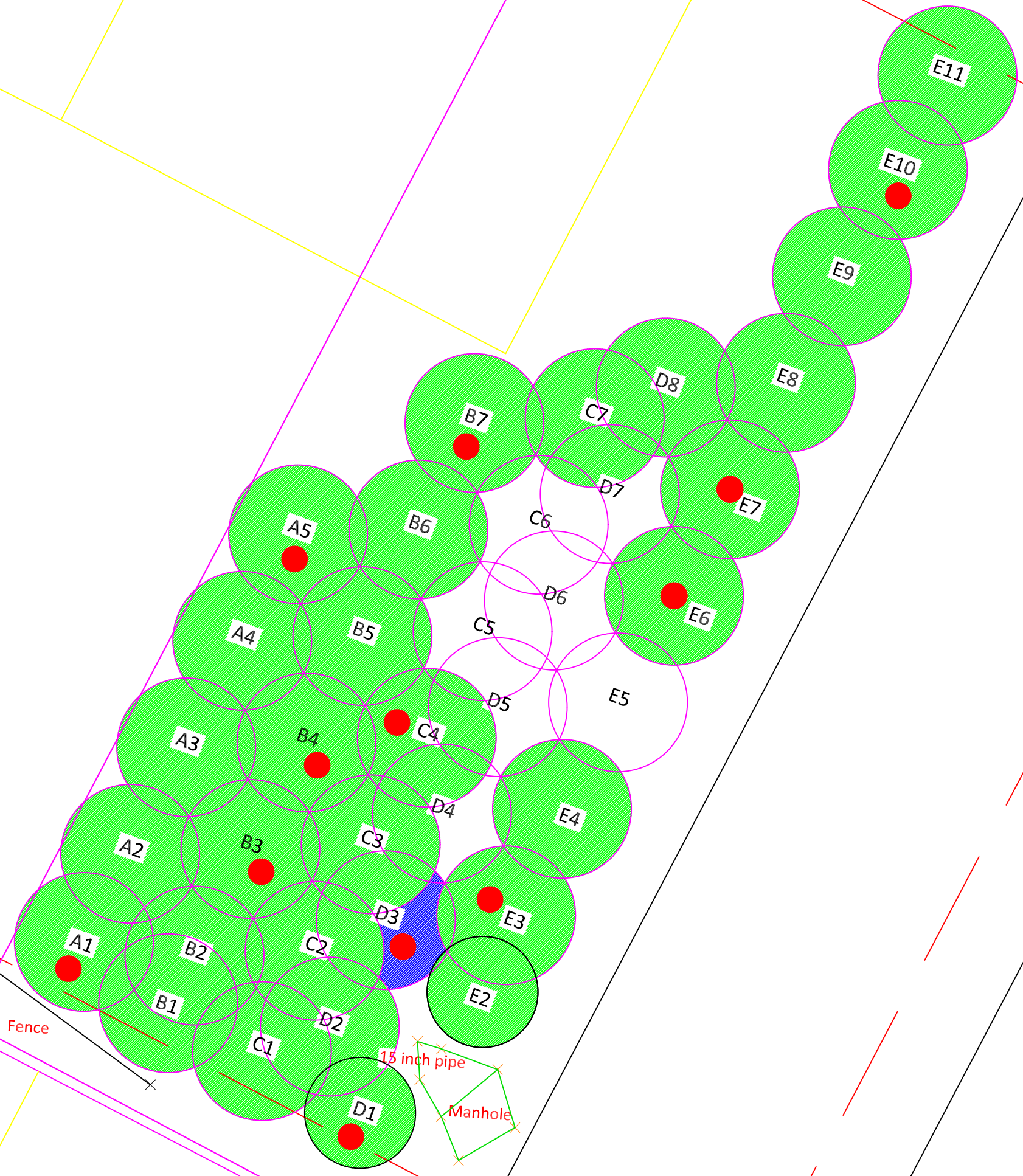
Comments:

Rick McKay

Foreman/Superintendent

Client QC Manager

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



GOWANUS CANAL

CANAL

REV	DESCRIPTION	CHECKED

APPROVED	
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Brooklyn, NY Auger ISS Report



Job Site Data

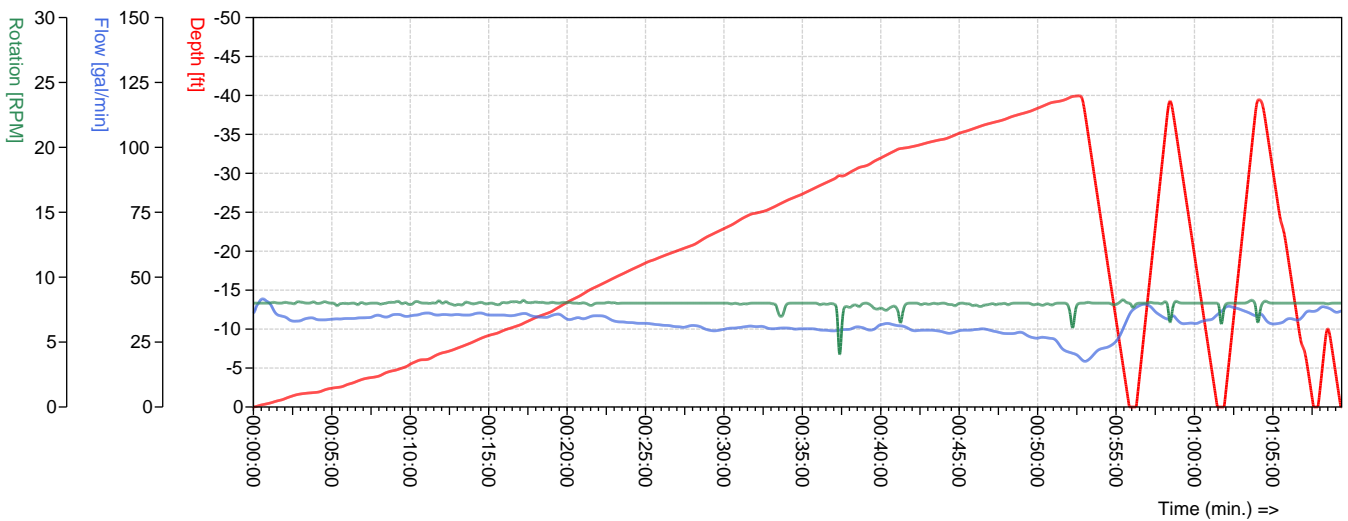
Project: Brooklyn, NY
 JobID: 24-071
 Client: Union LLC
 Contractor: Geo-Solutions
 Equipment ID: Delmag Rig

Data for Pile No: D3

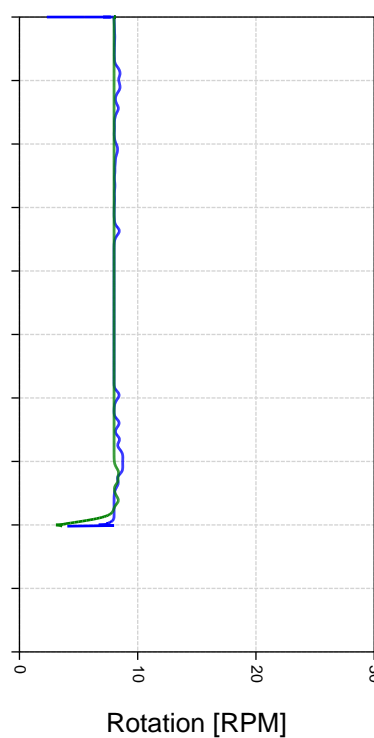
Date: 9/26/2024
 Start of production: 2:25:37 PM
 End of production: 3:34:59 PM
 Total time: 01:09:22
 Pause time: 00:00:00

Pile length: 40.09 ft
 Total Grout: 2243 gal
 Strokes: 3

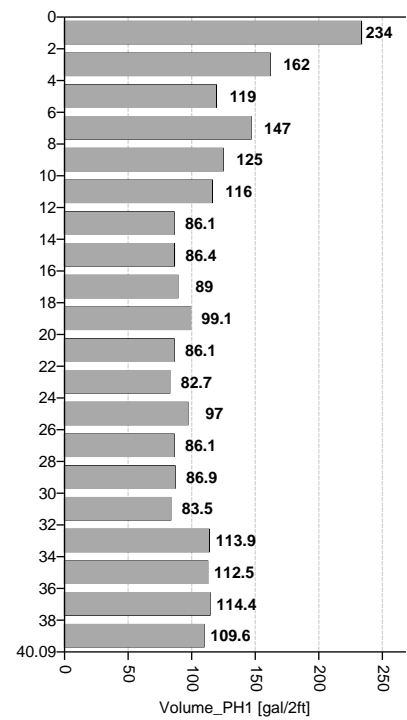
Parameters vs. Time



Parameters vs. Depth



Downwards Upwards



Comment