



TRANSMITTAL – NSD REPORT G031-22-01

Project: Groundwater Monitoring Well Project **Date:** June 17, 2022
890 NY RT 104A
Sterling, New York

Client: Village of Fair Haven **Re:** NSD, Inc. Project No.: G031-21

Attn: Mr. James Basile - Mayor **#Copies:** 1 - Electronic

ITEMS INCLUDED

- Typed Boring Logs
- Key to Boring Logs
- Laboratory Test Results
- Infiltration Test Results
- Monitoring Well Logs
- Drawings
- Invoice
- Other:


SUBMITTED FOR

- Approval
- Your Use
- As Requested
- Review & Comment

ACTION TAKEN - CLIENT

- Approved as Submitted
- Approved as Noted
- Resubmit
- Submit
- Returned
- Returned for Corrections
- Other:
-

Remarks: Thank you for this opportunity! Please note that a hard copy of the Exploration Summary Report will not be mailed unless requested.

Signature: 

Printed Name: Natalie A. Hunter

Title: Project Manager

Date: June 17, 2022

cheney@nsdrill.com
(315) 439-1155

www.nsdrill.com

meneilly@nsdrill.com
(315) 491-9385



BORING LOG

PROJECT:	Groundwater Monitoring Well Project	JOB NUMBER:	G031-22
LOCATION:	890 NY RT 104A - Sterling, New York	BORING NUMBER:	B-1/MW-1
CLIENT:	Village of Fair Haven	SURFACE ELEVATION:	As Obtained by Client

				GROUND WATER READINGS		
DATE STARTED:	06/08/22	DATE COMPLETED:	06/08/22	WHILE DRILLING:	Depth to Water: 6.4'	Casing At: 10.0'
DRILLER:	Marc Cheney	HELPER:	Zack Cheney	BEFORE CASING REMOVED:	9.4'	32.6'
CASING TYPE:	4 1/4" Hollow Stem Augers			AFTER CASING REMOVED:	Monitoring Well Installed See Monitoring Well Log	
DRILL RIG:	Truck Mounted Central Mine Equipment Model 55			CAVED AT DEPTH:	MW-1	

SAMPLE NUMBER	DEPTH OF SAMPLE	BLOW COUNTS OF SAMPLER DRIVE (per 6")	C/N	RECOVERY (Inches)	DESCRIPTION OF SOIL (Color, Primary Matrix, Complementary Matrix)	DEPTH OF STRATA CHANGE
1	5.0'-7.0'	1-WH-1-WH	N/1	22	Grey CLAY, some SILT (wet, very soft)	
						10.0
2	10.0'-12.0'	2-1-9-7	N/10	17	Grey fine SAND, some SILT (saturated, medium compact) <i>Augered Gravelly @ 11.5'</i>	
3	12.0'-14.0'	8-6-7-8	N/13	12	Grey/Brown cmf GRAVEL and mf SAND, trace SILT (saturated medium compact)	
4	15.0'-17.0'	7-8-10-9	N/18	9	Similar Soil (saturated, medium compact)	
5	20.0'-22.0'	9-13-7-6	N/20	15	Similar Soil (saturated, medium compact)	

Notes:
 Key to Drilling Terms: N - No. of blows to drive sampler 12" w/ 140 lb. hammer falling / 30"; C - % of Bedrock Core Recovery



BORING LOG

PROJECT:	Groundwater Monitoring Well Project	JOB NUMBER:	G031-22
LOCATION:	890 NY RT 104A - Sterling, New York	BORING NUMBER:	B-2
CLIENT:	Village of Fair Haven	SURFACE ELEVATION:	As Obtained by Client

				GROUND WATER READINGS		
DATE STARTED:	06/09/22	DATE COMPLETED:	06/09/22	WHILE DRILLING:	Depth to Water:	Casing At:
DRILLER:	Marc Cheney	HELPER:	Zack Cheney	BEFORE CASING REMOVED:	21.7'	28.0'
CASING TYPE:	4 1/4" Hollow Stem Augers			AFTER CASING REMOVED:	None Noted	
DRILL RIG:	Truck Mounted Central Mine Equipment Model 55			CAVED AT DEPTH:	11.1'	

SAMPLE NUMBER	DEPTH OF SAMPLE	BLOW COUNTS OF SAMPLER DRIVE (per 6")	C/N	RECOVERY (Inches)	DESCRIPTION OF SOIL (Color, Primary Matrix, Complementary Matrix)	DEPTH OF STRATA CHANGE
1	3.0'-5.0'	1-WH-1-1	N/1	22	Grey CLAY and SILT, trace fine SAND (wet, very soft)	
2	8.0'-10.0'	1-1-1-1	N/2	24	Similar Soil (wet, very soft)	
3	13.0'-15.0'	1-2-3-2	N/5	24	Similar Soil (wet, medium stiff)	
4	18.0'-20.0'	3-2-3-2	N/5	19	Grey SILT, trace fine SAND (saturated, medium stiff)	
5	23.0'-25.0'	WR-WR-WH-WH	N/WH	24	Grey SILT (saturated, very soft)	

Notes:
 Key to Drilling Terms: N - No. of blows to drive sampler 12" w/ 140 lb. hammer falling / 30"; C - % of Bedrock Core Recovery



Job No.: G031-22

Boring No.: B-2/MW-2

SAMPLE NUMBER	DEPTH OF SAMPLE	BLOW COUNTS OF SAMPLER DRIVE (per 6")	C/N	RECOVERY (Inches)	DESCRIPTION OF SOIL Primary Matrix, Complementary Matrix (Color,	DEPTH OF STRATA CHANGE
6	28.0'-30.0'	WR-WH-3-2	N/3	24	Grey fine SAND, some SILT (saturated, very loose)	
7	33.0'-35.0'	WH-WH-1-2	N/3	24	Similar Soil (saturated, very loose)	
8	38.0'-40.0'	WR-1-2-3	N/3	21	Similar Soil (saturated, very loose)	
9	43.0'-45.0'	2-2-2-1	N/4	17	Similar Soil (saturated, loose)	
						48.0
10	48.0'-50.0'	5-5-7-8	N/12	20	Grey SILT, some fine SAND (saturated, stiff)	
11	53.0'-55.0'	5-6-9-8	N/15	16	Similar Soil (saturated, very stiff)	
					<i>Auger Refusal @ 56.6'</i>	56.6
12	56.6'-56.8'	100@2"	N/100+	2	Red Shale Fragments (wet)	
					Bottom of Boring @ 56.8'	

Notes:
 N - No. of blows to drive sampler 12" w/ 140 lb. hammer falling / 30"
 C - % Bedrock Core Recovery



Key to Boring Logs

Burmister Classification of Soils	
Soil Description: Color, principal soil type and remaining soil types in decreasing pre-dominancy.	
Percentages By Weight:	
35-50%	and
20-35%	some
10-20%	little
0-10%	trace

Description of Soil Compactness (Based on SPT "N" Value)		
Primary Soil Type	Term of Compactness	Range of "N" Values
Coarse Grained Soils (Gravels and Sands)	Very Loose	N Value: < 4
	Loose	N Value: 4 to 9
	Medium Compact	N Value: 10 to 29
	Compact	N Value: 30 to 49
	Very Compact	N Value: \geq 50
Fine Grained Soils (Silts and Clays)	Very Soft	N Value: < 2
	Soft	N Value: 2 to 3
	Medium Stiff	N Value: 4 to 7
	Stiff	N Value: 8 to 14
	Very Stiff	N Value: 15 to 29
	Hard	N Value: \geq 30

Sample Number:

Soil - The number of the sample obtained (S-#).

Bedrock – The number of the bedrock sample obtained, referred to as a Run (R-#).

SPT "N" Value:

The number of blows of a 140 lb. weight hammer, falling 30", driving a 2" split spoon.

Recovery: Soil – Inches of soil recovered in the 2" split spoon.

Bedrock - Inches of Bedrock recovered during the core run, reported in inches and as percentage of core run.

RQD: Bedrock – Portions of the Bedrock core, full diameter and \geq 4" in length.

Reported in inches and as percentage of core run.

cheney@nsdrill.com
(315) 439-1155

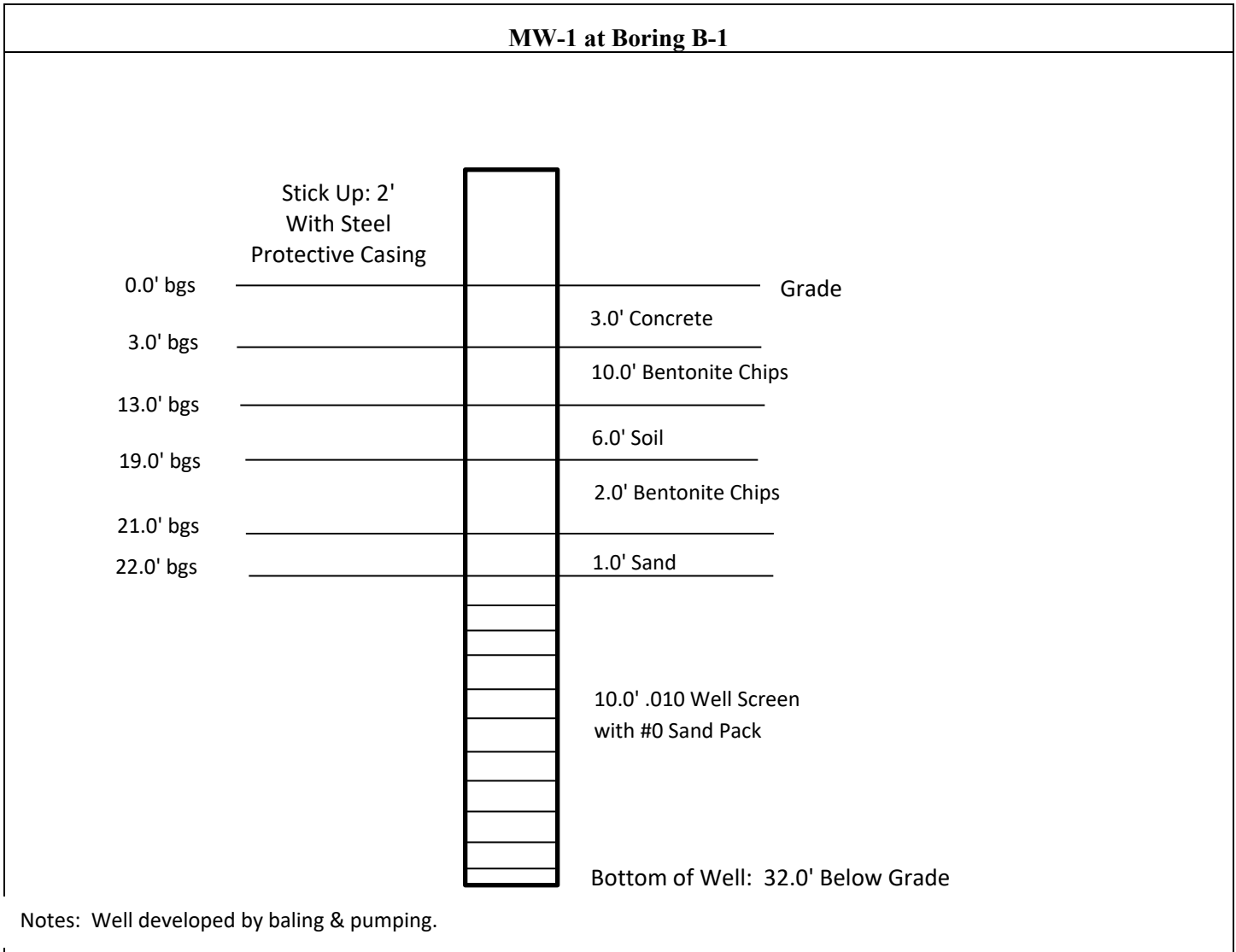
www.nsdrill.com

meneilly@nsdrill.com
(315) 491-9385



MONITORING WELL LOG

Project:	Groundwater Monitoring Well Project				
Location:	890 NY RT 104A - Sterling, New York	Client:	Village of Fair Haven		
Representative:	Marc L. Cheney	NSD, Inc. Project No.:	G031-22		
Diameter:	2"	Type (PVC/Steel Casing):	PVC	Installation Date:	06/08/22



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