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## Forest Lakes Bridges

Report Date: Oct 14, 2021

Work Order No.: 21-8536.SoilSampling.0001; ver: 1

Work Order Date: Oct 13, 2021

Reviewed by: Josiah Johnson

### Soil/Aggregate Laboratory Summary

General Location: Class 6 stockpile

Logged-in by: Greg Davies

Results apply only to the specific items and locations referenced and at the time of testing, observations or special inspections. Unless noted otherwise, samples were received in adequate condition. This report should not be reproduced, except in full, without the written permission of GROUND Engineering Consultants, Inc.

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Specification Title: Soil Sampling

Sampling Method: ASTM D75 / AASHTO T2 / CDOT CP30

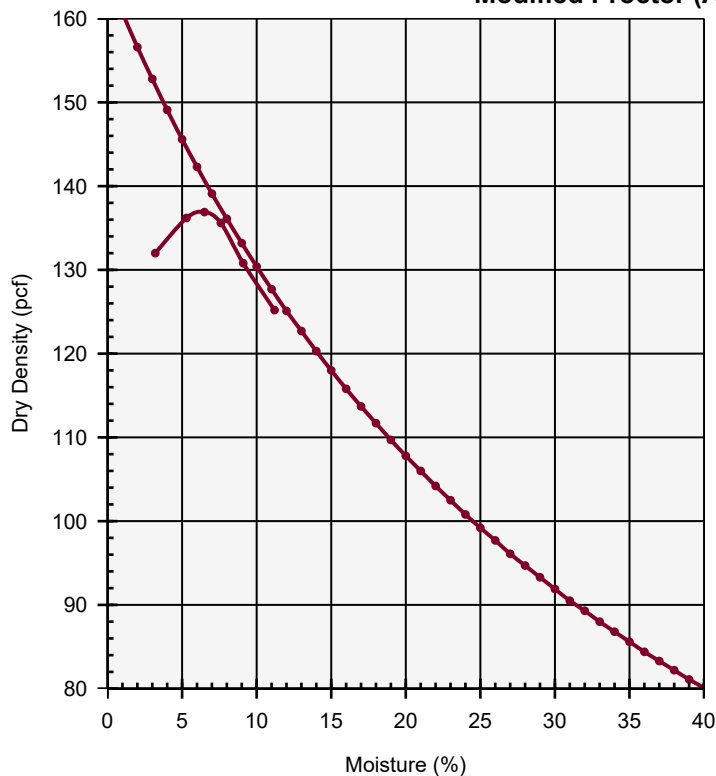
Sample Location: Class 6 stockpile

Lab ID: Soil506

### Atterberg Limits (AASHTO T89 & T90) and Classification (ASTM D2487 & AASHTO M145)

Method	Liquid Limit		Plastic Limit		Plasticity Index		Classification	
	Value	Spec.	Value	Spec.	Value	Spec.	USCS	AASHTO
Single Point	-	-	NP	-	NP	-	(SM)g	A-1-b (0)

### Modified Proctor (AASHTO T180)



Method	Preparation	Hammer
Method C	Moist Preparation	Manual

Maximum Dry Density (pcf)	Optimum Moisture (%)	Oversize Corrected	
		Maximum Dry Density (pcf)	Optimum Moisture (%)
136.9	6.5	-	-

Oversize Sieve: 3/4 in  
Coarse Fraction (%): 0  
Fine Fraction (%): 100  
Coarse Specific Gravity: -  
Coarse Absorption (%): -  
Fine Specific Gravity: Estimated 2.65

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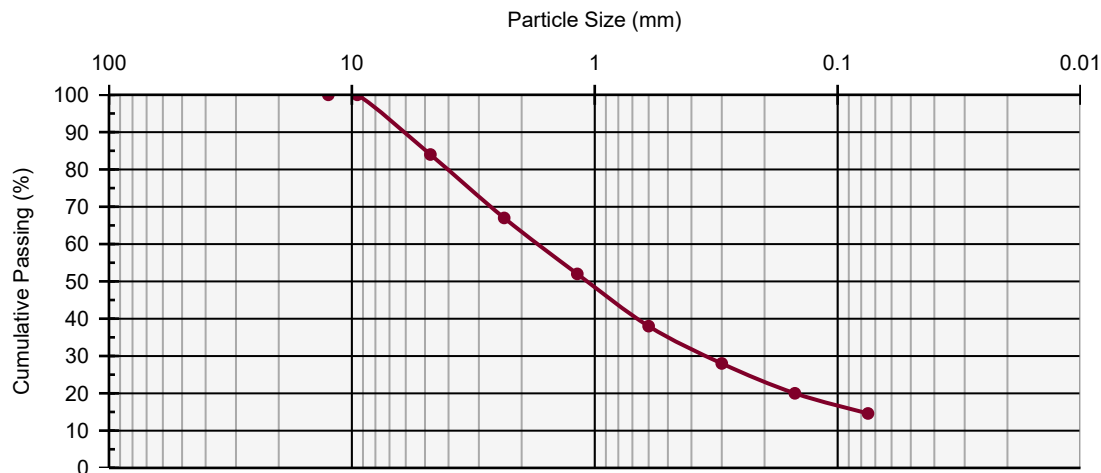
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#### Soil Gradation (AASHTO T88)



Coarse Gradation				Fine Gradation			
Sieve Size	Particle Size (mm)	Cumulative Passing (%)	Specified (%)	Sieve Size	Particle Size (mm)	Cumulative Passing (%)	Specified (%)
6 in	150	-	-	No. 4	4.75	84	-
5 in	125	-	-	No. 8	2.36	67	-
4 in	100	-	-	No. 10	2.00	-	-
3 in	75	-	-	No. 16	1.18	52	-
2.5 in	63	-	-	No. 20	0.85	-	-
2 in	50	-	-	No. 30	0.60	38	-
1.5 in	37.5	-	-	No. 40	0.425	-	-
1 in	25.0	-	-	No. 50	0.300	28	-
3/4 in	19.0	-	-	No. 60	0.250	-	-
1/2 in	12.5	100	-	No. 100	0.150	20	-
3/8 in	9.5	100	-	No. 140	0.090	-	-
No. 4	4.75	84	-	No. 200	0.075	14.6	-