



Chicora, PLLC

"Success is Sincere Effort and Skillful Execution"

CONSTRUCTION MANAGEMENT • CIVIL DESIGN • CONSULTING

NC Registered Engineering Firm P-1697

February 2, 2022

Floyd Properties
Attention: Mr. Johnny Mearcan
901 Arsenal Ave.
Fayetteville, NC 28305

Re: Porch Testing
248 Scholar Drive
Spring Lake, NC 28390
D.O.I.: January 31, 2022

To Whom it May Concern:

On February 2, 2022 Chicora, PLLC performed a site review requested by the client Floyd Properties to verify the bearing capacity of soils via hand auger (i.e. DCP Method) for the backfill on the porches prior to the placement of concrete.

A hand auger was used to advance the boreholes to different depths noted on the boring logs. A Dynamic Cone Penetrometer (DCP) test was performed in the hand auger boreholes by a 1.5-inch diameter cone driven into the soil by a 15-pound ring weight with a free fall of 20 inches. The number of blows required to drive the cone into the soil 1.75 inches is termed the DCP Value and is indicated for each test on the hand auger. A total of 4 hand auger/DCP evaluations were performed to a depth of approximately 3 feet below the existing surface. It is to the opinion of Chicora, PLLC that the materials in place (at the locations and elevations tested) is suitable to support the placement of concrete for the porch.

Should you require any additional information or have any questions, please do not hesitate to contact me at (910) 740-0725.

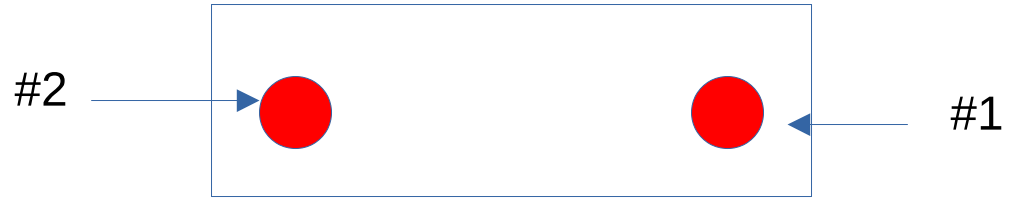
Sincerely,

Dennis Lowery, PE



Project Location (Lot 1134) 248 Scholar Drive Spring Lake NC					
Date: 2/2/22					
Design Bearing Pressure:					
Test Location	Test Depth	Penetrometer Blow Counts			Remarks/Soil Descriptions
		1 3/4"	1 3/4"	1 3/4"	
1	0	18	16	24	Red/Orange Sandy Clay
1	-1	1	1	1	Red/Orange Sandy Clay
1	-2	2	5	4	Red/Orange Sandy Clay
1	-3	4	5	2	Red/Orange Sandy Clay
Remarks:					
Test Location	Test Depth	Penetrometer Blow Counts			Remarks/Soil Descriptions
		1 3/4"	1 3/4"	1 3/4"	
2	0	16	18	18	Red/Orange Sandy Clay
2	-1	3	2	2	Red/Orange Sandy Clay
2	-2	7	9	11	Red/Orange Sandy Clay
2	-3	6	8	8	Red/Orange Sandy Clay
1					
Test Location	Test Depth	Penetrometer Blow Counts			Remarks/Soil Descriptions
		1 3/4"	1 3/4"	1 3/4"	
3	0	2	3	2	Red/Orange Sandy Clay
3	-1	2	1	1	Red/Orange Sandy Clay
3	-2	1	1	1	Red/Orange Sandy Clay
3	-3	1	1	1	Red/Orange Sandy Clay
Test Location	Test Depth	Penetrometer Blow Counts			Remarks/Soil Descriptions
		1 3/4"	1 3/4"	1 3/4"	
4	0	5	7	6	Red/Orange Sandy Clay
4	-1	3	1	1	Red/Orange Sandy Clay
4	-2	1	1	1	Red/Orange Sandy Clay
4	-3	1	1	1	Red/Orange Sandy Clay

Front Porch



Back Porch

