



MARK HAMPTON ASSOCIATES, INC.

SOIL EVALUATION • WETLAND DELINEATIONS • SOIL SURVEYS • WETLAND PERMITTING

5082

August 30, 2017

Mr. Tom Greer
Pinkham & Greer Civil Engineers
28 Vannah Avenue
Portland, ME 04103

Re: Soil Evaluation, Former Reed School Homestead Avenue and Libby Street Portland

Dear Tom,

I completed a soil evaluation for the proposed stormwater treatment program for the proposed development at the former Reed School on Homestead Avenue and Libby Street Portland, ME. The soil evaluation was conducted in accordance with the Maine Subsurface Wastewater Disposal Rules dated August 2015, as amended. I evaluated four hand dug soil test pits in the undeveloped portion of the site near Libby Street. The three of the soil test pits on the parcel are well drained glacial outwash soils with no water table within 48 inches of the surface. The fourth test pit was in an area which appeared to have been created to hold water. The surface soils to a depth greater than 12-14 inches were silty clay soils with the underlying soils more consistent with the site. There is a seasonal high watertable at approximately 42 inches in test pit 3 which was located near the disturbed area. There was no observed groundwater table in any of the soil test pits. The soil test pit log descriptions are attached.

If you have any questions or require additional information, please contact me.

Sincerely,

Mark J. Hampton L.S.E., C.S.S.
Licensed Site Evaluator #263
Certified Soil Scientist #216

SOIL PROFILE / CLASSIFICATION INFORMATION

DETAILED DESCRIPTION OF SUBSURFACE CONDITIONS AT PROJECT SITES

Project Name: Reed School Applicant Name: _____ Project Location (municipality): Portland

Exploration Symbol # STW-1 Test Pit Boring Probe
 " Organic horizon thickness _____ Ground surface elev. _____
 " Depth of exploration or to refusal _____

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Redox Features
0	loamy sand	friable	dark brown	
10	medium sand			
20	sand	friable	red brown	none noted
30	medium sand	friable	tan	
40				
50	Limit of Excavation			
60				

Soil Details by S.E. Soil Classification: 5 B Slope: 2 Limiting Factor: >48 Groundwater Restrictive Layer Bedrock
 Profile: 5 Condition: B Percent: 2 Depth: >48
 S.S. Soil Series/Phase Name: Adams Hydric Non-hydric Hydrologic Soil Group: A

Exploration Symbol # STW-2 Test Pit Boring Probe
 " Organic horizon thickness _____ Ground surface elev. _____
 " Depth of exploration or to refusal _____

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Redox Features
0	loamy sand	friable	dark brown	
10	medium sand			
20	sand	friable	red brown	none
30	medium sand	friable	tan	noted
40				
50	Limit of Excavation			
60				

Soil Details by S.E. Soil Classification: 5 B Slope: 2 Limiting Factor: >48 Groundwater Restrictive Layer Bedrock
 Profile: 5 Condition: B Percent: 2 Depth: >48
 S.S. Soil Series/Phase Name: Adams Hydric Non-hydric Hydrologic Soil Group: A

Exploration Symbol # STW-3 Test Pit Boring Probe
 " Organic horizon thickness _____ Ground surface elev. _____
 " Depth of exploration or to refusal _____

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Redox Features
0	loamy sand	friable	dark brown	
10	medium sand	friable	red brown	
20				
30	medium sand	friable	tan	
40	sand	friable	olive	common rust
50	Limit of Excavation			
60				

Soil Details by S.E. Soil Classification: 5 C Slope: 2 Limiting Factor: 42 Groundwater Restrictive Layer Bedrock
 Profile: 5 Condition: C Percent: 2 Depth: 42
 S.S. Soil Series/Phase Name: Crofton mud Hydric Non-hydric Hydrologic Soil Group: A

Exploration Symbol # STW-4 Test Pit Boring Probe
 " Organic horizon thickness _____ Ground surface elev. _____
 " Depth of exploration or to refusal _____

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Redox Features
0	silty clay loam	firm	gray	
10				
20	fine sandy loam	friable	brown	
30				
40	sand	friable	tan	
50	Limit of Excavation			
60				

Soil Details by S.E. Soil Classification: 8 C Slope: 2 Limiting Factor: _____ Groundwater Restrictive Layer Bedrock
 Profile: 8 Condition: C Percent: 2 Depth: _____
 S.S. Soil Series/Phase Name: Madeland Hydric Non-hydric Hydrologic Soil Group: 2

INVESTIGATOR INFORMATION AND SIGNATURE

Signature: Mark J. Hampton Date: 8/30/17
 Name Printed: MARK J. HAMPTON Cert/Lic/Reg. #: 263/216
 Title: Licensed Site Evaluator Certified Soil Scientist Certified Geologist Professional Engineer

affix professional seal