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27 November 2020

Re: Infiltration test at 1037-1041 SE 111th Avenue, Portland, OR

Field Investigation:

Rapid Soil Solutions (RSS) has performed one (4) infiltration test for future storm water and partition approval. Figure 1 below shows the project site location. Soils found on site match those in by DOGMI. RSS course grained flood deposits of sands, gravels and rounded cobbles.



Figure 1

Infiltration Testing:

RSS performed four (4) infiltration tests on the site in open test pits due to the course grained soils. A summary of the rates and soils is in the below table. All the test pits have a rate of infinity but the storm water manual only allows of a rate of 20in/hr. This rate will include a SF=2.

Test #	Test Depth (ft)	Infiltration rate (in/hr)	Soil Classification
TP#1	3	20 *	CP/ CB
TP#2	6	20 *	CP/ CB
TP#3	6	20 *	CP/ CB
TP#4	3	20 *	CP/ CB

The analysis, conclusions and recommendations contained in this report are based on site conditions as they existed at the time of explorations. Any questions regarding this report please contact me at the below number or email.

Sincerely,



Mia Mahedy, PE GE.



503-816-3689

mia@rapidsoilsolutions.com

Rapid Soil Solutions Infiltration Test Results



Preliminary Information

Location:	1037-1041 SE 111 th Avenue Portland, OR	Performed By: Mia Mahedy, PE, GE	
Date & Time:	11/26/20	Instrument Used:	Excavator
Weather:	Partly Sunny	Depth:	varies

TP #1 at 3ft

Soil Profile Detail

Depth (ft)	Description
0'-3.0'	Damp, brown, course grained SAND mixed with rounded river cobbles, and course gravels

RSS was unable to attain a measurable head of water in the test pit. Water was added to the pit at a rate of 5 gallons per minute, and no head was achieved. **RATE = INFINITY**

TP #2 at 6ft

Soil Profile Detail

Depth (ft)	Description
0'-3.0''	Damp, brown, course grained medium dense SAND mixed with rounded river cobbles, and course gravels
3.0'-6'	Damp, brown, medium dense, course grained gravels and rounded river cobbles

RSS was unable to attain a measurable head of water in the test pit. Water was added to the pit at a rate of 5 gallons per minute, and no head was achieved. **RATE = INFINITY**

TP #3 at 6ft	
Soil Profile Detail	
Depth (ft)	Description
0'-3.0''	Damp, brown, course grained SAND mixed with rounded river cobbles, and course gravels
3.0'-6'	Damp, brown, medium dense, course grained gravels and rounded river cobbles
RSS was unable to attain a measurable head of water in the test pit. Water was added to the pit at a rate of 5 gallons per minute, and no head was achieved. RATE= INFINTY	

TP #4 at 3ft	
Soil Profile Detail	
Depth (ft)	Description
0'-3.0'	Damp, brown, course grained SAND mixed with rounded river cobbles, and course gravels
RSS was unable to attain a measurable head of water in the test pit. Water was added to the pit at a rate of 5 gallons per minute, and no head was achieved. RATE= INFINTY	