

Boring Crew: M. Blakely, D. Spishvogel  
 Date Started: 2/14/12 Date Finished: 2/16/12  
 VTSPG NAD83: N 401676.59 ft E 1510024.93 ft  
 Station: 102+35.00 Offset: 17.0 R  
 Ground Elevation: 525.8 ft

Casing Sampler  
 Type: WB SS  
 I.D.: 3 in 1.5 in  
 Hammer Wt: 140 lb 140 lb  
 Hammer Fall: 30 in 30 in  
 Hammer/Rod Type: Manual/NW  
 Rig: CME 550 ATV C<sub>s</sub> = 1

Groundwater Observations  
 Date: 02/14/12 Depth: 5.8 Notes: Estimated

Depth (ft)	Strata (ft)	CLASSIFICATION OF MATERIALS (Description)	Blows/ft (N Value)	Microns Content %	Gravel %	Sand %	Fines %
5		(SP) f.m.c. SAND, trace silt, loose, brown, wet, Rec. = 0.9 ft	4-4-3-4 (7)				
10		(SP), becomes dark brown, Rec. = 0.7 ft	2-2-3-3 (5)				
15		(SP) f.m.c. SAND, Some Wood/Organics, loose, brown, wet, Rec. = 0.8 ft	2-3-2-3 (5)				
20		(SP) f.m.c. SAND, little f.c. gravel, trace silt, loose, brown, wet, Rec. = 0.7 ft	5-4-4-5 (8)				
25		(SM) f. SAND, Some Silt, medium compact, brown, wet, Rec. = 0.5 ft	3-7-5-5 (12)				
30		(SP) f.m.c. SAND, trace silt, medium compact, brown, wet, Rec. = 1.0 ft	8-8-11-9 (19)		1.0	91.5	7.5
35		(SM) f. SAND, Arid SILT, loose, brown, wet, Rec. = 1.4 ft	5-4-5-4 (9)		0.8	59.9	39.3
40		(SM) Similar Soil, Rec. = 1.8 ft	3-3-7-15 (10)				
45		(SM) f.m.c. SAND, Some Silt, trace f.c. gravel, medium compact, brown, wet, Rec. = 0.2 ft	14-8-9-13				

Notes:  
 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
 2. N Values have not been corrected for hammer energy. C<sub>s</sub> is the hammer energy correction factor.  
 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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Depth (ft)	Strata (ft)	CLASSIFICATION OF MATERIALS (Description)	Blows/ft (N Value)	Microns Content %	Gravel %	Sand %	Fines %
50		(SM) f.m.c. SAND, Some f.c. Gravel, little silt, very compact, brown, wet, Rec. = 0.5 ft	80-50/3" (R)				
55		(GP) f.c. GRAVEL, Some f.m.c. Sand, trace silt, very compact, brown, wet, Rec. = 0.5 ft	24-36-50/3" (R)				
60		(SM) f.m.c. SAND, little silt, trace f. gravel, very compact, brown, wet, Rec. = 1.7 ft	22-43-50/3" (R)				
65		(SM-TILL) f.m.c. SAND, Some f.c. Gravel, little silt, very compact, gray, wet, Rec. = 0.1 ft	100/4" (R)				
70		(SM-TILL) f.m.c. SAND, Some Silt, Some f.c. Gravel, very compact, gray, wet, Rec. = 0.5 ft	150/8" (R)		49.0	24.3	26.7
75		(SM-TILL) Similar Soil, Rec. = 0.2 ft	100/4" (R)				
80		(SM-TILL) Similar Soil, Rec. = 0.3 ft	200/3" (R)				

Remarks:  
 Boulders and cobbles were encountered while driving and washing casing below a depth of 49 feet.  
 Boring was advanced open hole below a depth of 69 feet.  
 The description of the classification of the materials is based on USCS criteria that gravel is defined as material retained on a #4 sieve or larger. Laboratory data provided follows AASHTO classification guidelines that gravel is defined as material retained on a #10 sieve or larger.

Hole stopped @ 79.3 ft

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