

Boring Crew: **M. Blakely, D. Spiehsvogel**
 Date Started: **2/01/12** Date Finished: **2/03/11**
 VTSPG NAD83: **N 401708.51 ft E 1509995.37 ft**
 Station: **102+09.00** Offset: **15.1 L**
 Ground Elevation: **525.1 ft**

Casing: **WB** Sampler: **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** $C_c = 1$

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blow(s) (N Value)	Groundwater Observations					
				Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5	(SP)	(SP) f.m.c. SAND , trace silt, loose, brown, moist, Rec. = 0.6 ft	3-4-4-4 (6)						
10	(SP)	(SP) f.m.c. SAND , trace silt, loose, brown, wet, Rec. = 0.5 ft	3-3-2-2 (5)						
15	(OL)	(OL) ORGANICS , Some Silt, little f.m.c. sand, loose, brown/black, wet, Rec. = 0.5 ft	4-3-4-4 (7)						
20	(SM)	(SM) f. SAND , And SILT, medium compact, brown, wet, Rec. = 0.9 ft	11-5-6-6 (11)	0.1	61.3	38.6			
25	(SM)	(SM) f.m.c. SAND , Some Silt, loose, brown, wet, Rec. = 1.2 ft	3-4-5-6 (9)						
30	(ML)	(ML) SILT , And f.m.c. SAND, loose, brown, wet, Rec. = 1.4 ft	6-4-5-7 (9)		48.0	52.0			
35	(ML)	(ML) Similar Soil , Rec. = 1.9 ft	WR-4-4-3 (6)						
40	(GM)	(GM) f.c. GRAVEL , Some f.m.c. Sand, little silt, compact, brown, wet, Rec. = 0.5 ft	19-18-25-50 (43)						
45	(GM)	(GM), becomes very compact, Rec. = 0.2 ft	27-41-72						

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_c 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 (1)	CLASSIFICATION OF MATERIALS (Description)	Blow(s) (N Value)	Groundwater Observations					
				Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
50	(GM)	(GM) Similar Soil , Rec. = 1.1 ft	33-81-31-54 (R)						
55	(SM)	(SM) f.m.c. SAND , Some Silt, trace f.c. gravel, very compact, brown, wet, Rec. = 1.0 ft	41-64-50 (R)						
60	(GM-TILL)	No Recovery, Rec. = 0.0 ft (GM-TILL)	100 (R)						
65	(GM-TILL)	(GM-TILL) f.c. GRAVEL , Some f.m.c. Sand, little silt, very compact, gray, wet, Rec. = 0.3 ft	150 (R)						
70	(ML-TILL)	(ML-TILL) Clayey SILT , little f.m.c. sand, little f.c. gravel, very compact, gray, wet, Rec. = 0.8 ft	73-50 (R)	21.0	10.6	68.4	28	9	
75	(GM-TILL)	(GM-TILL) f.c. GRAVEL , Some f.m.c. Sand, little silt, very compact, gray, wet, Rec. = 0.2 ft Hole stopped @ 74.5 ft	150 (R)						

Remarks:
 Boulders and cobbles were encountered while driving and washing casing below a depth of 39 feet.
 Boring was advanced open hole below a depth of 59 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.

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