Illinois Department of Transportation
Division of Highways
Whitney & Associates, Inc.

SOIL BORING LOG

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Date 1/26/11

ROUTE TR 176 DESCRIPTION TR 176 Relocation (Creek) LOGGED BY T. Fehl

SECTION 05-15106-01-BR LOCATION Persifer Township, SEC. 19, TWP. 11N, RNG. 3R,
Latitude , Longitude

COUNTY Knox DRILLING METHOD ATV With Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 048-3120
Station 110+70 to 111+80

BORING NO. S-08
Station 111+80
Offset 2.0 ft Right
Ground Surface Elev. 623.70 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 601.5 ft ▼
Upon Completion 607.7 ft
After - Hrs. - ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown SILTY CLAY Organic Topsoil (10")	622.87				
Medium, Brown SILTY CLAY			2		
			2	0.9	26
			3	B	
	619.20	-5			
Stiff, Brown And Gray SILTY CLAY DD=96 PCF			2		
			3	1.7	24
			5	B	
			2		
			3	1.6	25
	614.70		3	B	
Medium, Brown And Gray SILTY CLAY DD=93 PCF		-10			
			3		
			3	0.9	27
			3	B	
			1		
			2	0.7	28
			2	B	
	609.20	-15			
Soft, Dark Gray CLAY LOAM DD=94 PCF			1		
			1	0.4	27
			2	B	
	606.70				
Very Stiff, Gray, NEAR CLAY SHALE DD=114 PCF			5		
			6	2.1	17
			10	B	
		-20			

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Stiff, Gray, NEAR CLAY SHALE DD=114 PCF (continued)			10		
			15	2.7	16
			30	B	
	601.70 ▼				
Stiff, Gray, NEAR CLAY SHALE DD=113 PCF			8		
			10	1.3	18
DD=116 PCF			15	B	
		-25			
			9		
			12	1.5	18
			17	B	
			8		
			9	1.2	19
			13	B	
		-30			
			15		
			11	2.2	15
			17	B	
	589.70				
Very Stiff, Gray CLAY SHALE DD=118 PCF		-35			
			29		
	587.70		49	2.9	13
SEE ROCK CORE LOG End of Boring			50/1"	B	
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation

ROCK CORE LOG

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Date 01/27/2011

ROUTE TR-176 DESCRIPTION TR 176 Relocation (Creek) LOGGED BY Fehl/Krusemark

SECTION 05-15106-01-BR LOCATION Persifer Township SEC. 19 TWP. 11N RNG. 3E PM

COUNTY Knox CORING METHOD Single Tube With Water

STRUCT. NO. 048-3120 CORING BARREL TYPE & SIZE NGW x 5'

Station 110+70 to 111+80 Core Diameter 2.0 in
Top of Rock Elev. (589+) 36 ft
Begin Core Elev. (588+) 36 ft

BORING NO. SB-8
Station 111+80
Offset 2' Right
Ground Surface Elev. 623.7 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Dark Gray, NEAR CLAY SHALE		36					
		37					
MC = 15.6%		38					3.5
		39	8-1	43	10		
		40					
		41					
		42					
		43	8-2	50	23		
Dark Gray, NEAR CLAY SHALE MC = 14.0%		44					4.1
		45					
	578.2						
Dark Gray And Black NEAR CLAY SHALE With Shale Fragments		46					
	576.7	47					
Dark Gray CLAY SHALE MC = 10.9%		48					7.1
		49	8-3	60	36		
		50					
	572.7	51					
CORE RUN DISCONTINUED							

Color pictures of the cores Attached
Cores will be stored for examination until 07/01/2011
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS 138 (Rev. 3/01)

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