Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 3/11/11

ROUTE FAP 327 DESCRIPTION US 50 over Unnamed Stream LOGGED BY JAS (TSI)

SECTION 20BR LOCATION , SEC. 18, TWP. 2N, RNG. 1W, 3 PM

COUNTY Clinton DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic SPT

STRUCT. NO. 014-0410 (E) / 014-2024 (P)
Station 833+85

BORING NO. 2 South End
Station 834+09
Offset 9.00ft RT
Ground Surface Elev. 462.08 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 452.1 ft
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt Concrete (12"), Portland Cement Concrete (7")	460.6		1		
Dark Gray (Soft, Moist) Silty CLAY (Fill)			2 2	1.44 B	36
			2		
Medium Stiff, More Clayey		-5	3 4	3.68 S	28
	456.6				
Dark Gray (Soft, Moist) Silty CLAY (Alluvial)			1 2 2	3.28 B	26
			1		
Medium Stiff, Gray to Brown		-10	2 3	4.60 S	22
	451.6				
Gray to Brown (Medium Stiff, Moist) CLAY (Alluvial)			1 3 3	5.65 S	20
	449.1				
Gray/Brown (Medium Stiff, Moist) Clay LOAM			3 3 3	4.86 S	19
		-15			
	446.6				
Gray/Brown (Very Stiff, Moist) Silty LOAM (Alluvial)			1 6 11	3.77 S	17
	444.6				
Brown (Medium Dense, Wet) Gravelly SAND (Alluvial) See Gradation @ 19 ft			1 7 12	NC	--
	442.1	-20			
Dark Gray (Hard, Moist) SILT (Till)			24 36 50/2"	20.64 S	10
Began Mud Rotary Drilling Trace Gravel			30 50/5" -	25.15 S	10
		-25			
	436.6				
Dark Gray (Hard, Moist) Silty CLAY (Till) Trace Wood			30 30 50/5"	18.30 S	12
	434.1				
Dark Gray (Hard, Moist) Silty Clay LOAM Trace Gravel			24 28 50/5"	39.55 S	10
		-30			
	430.1				
Dark Brown/Gray (Very Stiff, Moist) CLAY (Till) A-7-6(22) See Classification @ 34 ft			4 6 12	12.48 B	23
		-35			
	425.1				
Dark Gray (Hard, Moist) Silty Clay LOAM (Till)			17 27 32	27.94 S	12
		-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, from 137 (Rev. 8-99)

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dark Gray (Hard, Moist) Silty Clay LOAM (Till) (continued)					
Trace Limestone Pieces			11		
Trace Shale Pieces		-45	17 21	24.70 B	14
Weathered Limestone Cobble Dark Brown		-50	100/1" - -	NC	7
	410.1				
Brown (Very Stiff, Moist) Silty CLAY (Till)			3		
Trace Shale Pieces			6 11	3.68 S	24
	407.1	-55			
END OF BORING		-60			

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