Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 4/1/09

ROUTE FAP 553 (IL 72) **DESCRIPTION** IL 72 over a Stream in Kingston, 3.43 MI W of IL 23 (South) **LOGGED BY** LM

SECTION (127)I **LOCATION** South 1/2, **SEC.** 22, **TWP.** 42N, **RNG.** 4E, 3rd **PM**

COUNTY Dekalb **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. 019-2552 (Exist.)
Station 668+86

BORING NO. 1 (NE Quad)
Station 669+07
Offset 14.00ft Lt.
Ground Surface Elev. 793.22 ft

Surface Water Elev. 785.63 ft
Stream Bed Elev. 786.17 ft

Groundwater Elev.:
First Encounter ft
Upon Completion 778.2 ft ▽
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered white shoulder stone & Black Silty Clay Loam Fill	790.72				
Stiff to Very Stiff Black Silty Clay Loam Fill with concrete debris @ 9.5'			4		
			4	2.0	22.9
			5	P	
		-5			
			2		
			3	2.0	36.1
			4	P	
			3		
			3	2.0	16.9
			3	P	
	783.22	-10			
Very Stiff Pinkish Brown Sand Loam/Sandy Clay Loam Till with free water @ 10'			6		
			8	3.0	10.2
			4	P	
	781.22				
Stiff Gray Silty Clay Loam, Silty Loam, Silt, & Silty Clay			3		
			4	1.4	21.2
			3	B	
		▽ -15			
			3		
			2	1.3	21.2
			3	B	
			3		
			4	1.6	20.1
			4	B	
	773.22	-20			
Hard Pinkish Brown Sandy Clay Loam Till			4		
			5	4.1	9.0
			6	S	
			9		
			11	7.2	8.5
			14	S	
		-25			
			8		
			11	7.4	8.7
			16	S	
			7		
			11	7.2	8.6
			15	S	
		-30			
			5		
			8	7.0	9.0
			14	S	
	759.22				
Dense Loamy Medium to Coarse Gravel & Sand		-35			
			11		
			18		8.0
			21		
	756.72				
End of Boring		-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)

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SECTION (127)I **LOCATION** South 1/2, **SEC.** 22, **TWP.** 42N, **RNG.** 4E, 3rd **PM**

COUNTY Dekalb **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. 019-2552 (Exist.)
Station 668+86

BORING NO. 2 (SE Quad)
Station 669+08
Offset 14.00ft Rt.
Ground Surface Elev. 793.22 ft

Surface Water Elev. 785.63 ft
Stream Bed Elev. 786.23 ft

Groundwater Elev.:
First Encounter ft
Upon Completion 778.2 ft ▽
After Hrs. ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered white shoulder stone & Black Silty Clay Loam Fill				
790.72				
Very Stiff to Stiff Black Silty Clay Loam Fill		4		
		4 5	2.5 P	21.3
	-5	2		
		2 2		30.8
785.72				
Loose Gray Loamy Sand/Gravel		1		
		4 7		16.2
783.72				
Soft Pinkish Brown Sandy Clay Loam Till	-10	wh		
		wh 2	0.5 P	12.8
		1		
		3 4	1.0 P	12.5
779.22				
Stiff Gray Silty Clay, Silty Loam	▽ -15	2		
		3 5	1.4 S	24.7
		2		
		3 4	1.6 S	19.0
773.22	-20			
Hard Pinkish Brown Sandy Clay Loam Till		5		
		7 9	5.6 S	10.5
		10		
		11 15	7.6 S	7.7
	-25	13		
		14 15	7.4 S	7.3
		11		
		11 14	7.2 S	7.4
	-30	9		
		10 15	7.0 S	8.4
	-35	6		
		8 11	6.6 S	7.4
756.72				
End of Boring				
	-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)