Illinois Department of Transportation
Division of Highways
SCI Engineering

SOIL BORING LOG

Date 02/10/12

ROUTE FAP Route 42 (IL 127) DESCRIPTION IL 127 Over Kaskaskia River LOGGED BY SCI (HHF)

SECTION 1-1BR-2 LOCATION Carlyle, IL, SEC. 31, TWP. 2N, RNG. 2W

COUNTY Clinton DRILLING METHOD MUD ROTARY HAMMER TYPE Automatic

STRUCT. NO. 014-0014
Station 140+00

BORING NO. B-3
Station 132+39
Offset 9 ft RT
Ground Surface Elev. 436.0 ft

Surface Water Elev. 419.2 ft
Stream Bed Elev. 418.3 ft

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPAHLT - 3.5 inches	435.7				
REINFORCED CONCRETE - 7.25 inches	435.1				
Open air below bridge deck		-5			
		-10			
		-15			
	419.2				
Flowing water					
Began mud rotary drilling at 18 feet	418.3				
CLAY: Brown, trace sand and gravel [A-7-6] Atterberg limits test performed		-20	3 2 2	0.5 B	32
CLAY: Brown, trace sand and gravel [A-7-6] *(continued)* becomes brown and gray		-25	1 3 2	0.7 B	27
	413.0				
CLAY: Brown and gray, trace gravel [A-6] Atterberg limits test performed		-25	2 2 4	1.7 S/20	25
			1 1 3	1.0 B	28
increasing sand content Atterberg limits test performed		-30	1 1 2	0.4 B	29
	404.0		2 2 4	0.6 B	25
SAND: Brown and gray, fine [A-3]					
	402.5				
SANDY LOAM: Gray [A-2] GSA performed		-35	2 2 2	NC	
	400.5				
SAND: Gray and black, fine to medium [A-2]			2 3 3	NC	
	398.3				
Rough drilling, drilling fluid return indicated gravel	397.5				
SAND: Brown and gray, fine to medium [A-2]	396.0	-40	10 3 5	NC	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
GSA performed lost mud rotary return					
no sample recovery			5 7 10	NC	
	393.0				
SAND: Brown, with gravel, trace clay [A-2] GSA performed		-45	5 5 4	NC	
Interbedded fine sand [A-3] and coarse gravel [A-1] seams			12 18 50/6"	NC	
	388.0				
Mud Rotary Bit Refusal and Split Spoon Sampler Refusal at 48.0 ft			50/0"	NA	
Boring grouted to 48 ft.		-50			
		-55			
		-60			

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