Illinois Department of Transportation
Division of Highways
Kaskaskia engineering Group

SOIL BORING LOG

Date 3/2/09

ROUTE FAI-270 DESCRIPTION Bridge over Chain of Rocks Canal LOGGED BY MDM

SECTION 60-1B-1 LOCATION , SEC.30, TWP. 4N, RNG. 9W, PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 060-0345
Station

BORING NO. B-1 (SW Canal)
Station 1197+72.37
Offset 210.90ft RT
Ground Surface Elev. 392.8 ft

Surface Water Elev. 404.0 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter N/A ft
Upon Completion N/A ft
After ___ Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Rip Rap at Mudline					
	391.34				
Gray Fine SAND with Silt, Trace Gravel			4		
			2		
			3		
	388.84				
Gray Fine SAND			2		
		-5	3		
			3		
	386.34		3		
Gray Fine SAND			1		
			1		
	383.84				
Gray Fine SAND, Trace Gravel (A-3) Sand=98%, Silt/CL=1.9%, Gravel=0.1%			7		
		-10	3		
			5		
	381.34				
Gray Fine SAND, Trace wood Fragments			3		
			3		
			5		
	378.84				
Gray Medium SAND			1		
		-15	1		
			2		
	376.34				
Gray Medium SAND, Trace Gravel			3		
			5		
			7		
	373.84				
Gray Fine SAND			1		
		-20	3		
Gray Fine SAND *(continued)*			7		
	371.34				
Gray Fine SAND			1		
			2		
			6		
	368.84				
Gray Fine SAND (A-3) Sand=98.6%, Silt/CL=1.4%, Gravel=0%			2		
		-25	2		
			3		
	367.34				
No Sample Recovery					
			2		
			2		
			3		
	363.84				
Gray-Brown Medium SAND			1		
		-30	1		
			1		
	362.34				
Gray-Brown Fine SAND, with Gravel (A-1-b) Sand=84.9%, Gravel=15%, Silt/CL=0.1%					
	357.84	-35			
Dark Gray Medium SAND with Gravel, Trace Coal			1		
			3		
			5		
	352.84	-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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After ___ Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Fine-Medium SAND, Trace Gravel			4		
			12		
			18		
	347.84	-45			
Gray, Medium SAND, Trace Gravel			3		
			3		
	346.34		5		
Gray, Fine SAND, Trace Gravel (A-3) Sand=98.1%, Gravel=0.1%, Silt/CL=1.8%			2		
			5		
			7		
			15		
	342.84	-50			
Gray, Fine SAND, Trace Gravel			3		
			5		
			10		
		-55			
	332.84	-60			
Gray-Brown Medium SAND, Trace Gravel			7		
			10		
			15		
		-65			
	322.84	-70			
Gray-Brown Medium SAND, Trace Gravel			2		
			3		
			6		
		-75			
	312.84	-80	10		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Silty SAND, with Gravel			20		
			25		
		-85			
		-90			
	301.09		275/4"		
Borehole continued with rock coring					
		-95			
		-100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BBS, from 137 (Rev. 8-99)

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jmlgus
3/15/2011
5:05:20 PM

Kaskaskia Engineering Group, LLC

USER NAME = jmlgus	DESIGNED - BWC	REVISED -	
FILE NAME = 0600345-76A91-105-SBL.DGN	CHECKED - LGP	REVISED -	
PLOT SCALE = NONE	DRAWN - JM	REVISED -	
PLOT DATE = 3/18/2011	CHECKED - BSK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 060-0345
BRIDGE SHEET NO. 105 OF 133 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-1B-1	MADISON	712	484
		CONTRACT NO. 76A91		
		ILLINOIS FED. AID PROJECT		