Illinois Department of Transportation
Division of Highways
Kaskaskia engineering Group

ROCK CORE 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 CORING METHOD Core Barrel

STRUCT. NO. 060-0345
Station

CORING BARREL TYPE & SIZE NX Wireline
Core Diameter 1.9 in
Top of Rock Elev. 301.09 ft
Begin Core Elev. 301.09 ft

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

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE: Gray, Finely Crystalline, Medium bedded, trace seams	301.09	1	81	81	5	
Core Run 1 - RMR Rating 82 : I - Very Good Quality Rock Mass	-95					993.6
SHALE: Blue Gray, Trace Calcite veins		2	96	96	5	
Core Run 2 - RMR Rating 80 : I - Very Good Quality Rock Mass	-100					589.7
LIMESTONE: Gray, Finely Crystalline, Trace seams, Medium bedded	-105	3	100	100	6	
Core Run 3 - RMR Rating 80 : I - Very Good Quality Rock Mass	-110					786.2

Color pictures of the cores Yes
Cores will be stored for examination until 2012
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

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Station

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Core Diameter 1.9 in
Top of Rock Elev. 301.09 ft
Begin Core Elev. 301.09 ft

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

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE: Gray, Finely Crystalline, Trace seams, Medium bedded	-115	4	100	98	4	
Core Run 4 - RMR Rating 80 : I - Very Good Quality Rock Mass						812.9
Terminated @ 119.0 ft in Limestone @ EL. 273.84	-120					
	-125					
	-130					

Color pictures of the cores Yes
Cores will be stored for examination until 2012
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

Illinois Department of Transportation
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SOIL BORING LOG

Date 3/9/09

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

Surface Water Elev. 403.0 ft
Stream Bed Elev. ft

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

BORING NO. B-2 (NW Canal)
Station 1198+89.25
Offset 33.73ft RT
Ground Surface Elev. 395.4 ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Fine SAND, Trace Gravel		2		
		3		
	390.89	6		
Brown Fine SAND, Trace Gravel (A-3) Sand=98%, Gravel=1.1%, Silt/CL=0.9%	-5	5		
	388.39	9		
		17		
Brown Fine SAND, Trace Gravel		2		
		2		
	385.89	5		
Brown Fine SAND, Trace Gravel	-10	1		
		1		
	383.39	1		
Brown Fine SAND, Trace Gravel		1		
		1		
	380.89	4		
Brown Medium SAND, Trace Gravel (A-1-b) Sand=98.3%, Gravel= 1.3%, Silt/CL=0.4%	-15	1		
		1		
	378.39	4		
Gray Medium SAND		2		
		4		
	375.89	6		
	-20			

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Fine-Medium SAND, Trace Gravel, Wood Fragments *(continued)*		1		
		1		
	373.39	2		
Gray Fine-Medium SAND		1		
		2		
	-25	2		
Gray Medium SAND, Trace Gravel (A-1-b) Sand=96.8%, Gravel=1.8%, Silt/CL=1.4%	369.89	1		
		2		
	368.39	3		
Gray Medium SAND, Trace Gravel		2		
		2		
	-30	3		
Gray Fine -Medium SAND, Trace Gravel (A-1-b) Sand 97.8%, Gravel=0.5%, Silt/CL=1.7%	364.89	4		
		5		
	363.39	6		
Gray Medium SAND, Trace Gravel				
	-35			
		6		
		6		
	358.39	5		
Gray, Medium SAND with Gravel (A-1-b) Sand =75.9%, Gravel=21.5%, Silt/CL=2.6%				
	-40	13		

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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jmigus
3/15/2011
5:05:25 PM

Kaskaskia Engineering Group, LLC

USER NAME = jmigus	DESIGNED - BWC	REVISED -	
FILE NAME = 0600345-76A91-106-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. 106 OF 133 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-1B-1	MADISON	712	485

CONTRACT NO. 76A91
ILLINOIS FED. AID PROJECT