Illinois Department of Transportation
Division of Highways
Kaskaskia engineering Group

SOIL BORING LOG

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Date 10/19/09

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

SECTION Bridge over Chain of Rocks Canal 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-10
Station 1194+57.25
Offset 23.54ft LT
Ground Surface Elev. 443.9 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 417.9 ft ▼
Upon Completion N/A ft
After ___ Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray-brown Medium to Coarse SAND, with Gravel *(continued)*					
		-125			
Brown Medium SAND	315.41		19		
			19		
		-130	18		
		-135			
Brown Medium to Coarse SAND, with Fine Gravel	305.41		32		
			135		
	303.91	-140	50/3"		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gravel and Cobbles					
	301.91				
Borehole continued with rock coring					
		-145			
		-150			
		-155			
		-160			

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)

Illinois Department of Transportation
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ROCK CORE LOG

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Date 10/19/09

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

SECTION Bridge over Chain of Rocks Canal 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. 301.91 ft
Begin Core Elev. 300.41 ft

BORING NO. B-10
Station 1194+57.25
Offset 23.54ft LT
Ground Surface Elev. 443.9 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE: Gray,Very Finely Crystalline, Trace seams, Thick bedded			1	100	72	6	
		-145					
LIMESTONE: Gray, Very Finely Crystalline, Trace seams, Thick bedded, Vuggy	298.06		2	100	96	4	
		-150					
Core Run 2- RMR Rating 73 : II - Good Quality Rock Mass							697.0
SHALE: Gray, soft, Banded	291.51						
LIMESTONE: Gray, Finely Crystalline, Trace seams, Thick bedded	291.01						
		-155					
LIMESTONE: Gray, Very Finely Crystalline, Trace seams, Thick bedded	288.06		3	100	65		
							455.8
Core Run 3- RMR Rating 78 : II - Good Quality Rock Mass		-160					

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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ROCK CORE LOG

Page 2 of 2

Date 10/19/09

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

SECTION Bridge over Chain of Rocks Canal 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. 301.91 ft
Begin Core Elev. 300.41 ft

BORING NO. B-10
Station 1194+57.25
Offset 23.54ft LT
Ground Surface Elev. 443.9 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE: Gray, Very Finely Crystalline, Trace seams, Thick bedded *(continued)*							1122.5
		-165					
LIMESTONE: Gray, aphanitic, Trace seams, Thick bedded	277.96		4	100	95		
		-170					
Core Run 4- RMR Rating 85 : I - Very Good Quality Rock Mass							1454.4
	269.66						
		-175					
		-180					

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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jmlgus
3/15/2011
5:06:57 PM

Kaskaskia Engineering Group, LLC

USER NAME = jmlgus	DESIGNED - BWC	REVISED -	
FILE NAME = 0600345-76A91-123-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. 123 OF 133 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-1B-1	MADISON	712	502

CONTRACT NO. 76A91
ILLINOIS FED. AID PROJECT