



# SOIL BORING LOG

Date 3/16/09

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 1203+80.97  
 BORING NO. B-3 (NE Canal)  
 Station 1203+80.97  
 Offset 15.08ft RT  
 Ground Surface Elev. 396.4 ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION
0				Surface Water Elev. 415.7 ft Stream Bed Elev. _____ ft
				Groundwater Elev.: First Encounter N/A ft Upon Completion N/A ft After _____ Hrs. _____ ft
0 to 308.44				Brown Silty GRAVEL, With Sand
308.44	50/4"			Large Gravel and Cobbles
308.44 to 298.44				Borehole continued with rock coring

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)



# ROCK CORE LOG

Date 3/16/09

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 CORING BARREL TYPE & SIZE NX Wireline  
 Station 1203+80.97  
 BORING NO. B-3 (NE Canal)  
 Station 1203+80.97  
 Offset 15.08ft RT  
 Ground Surface Elev. 396.4 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	QUALITY (%)	CORE TIME (min/ft)	STRENGTH (tsf)	DESCRIPTION
298.44	1	62	42	5	752.4	GRANITE/LIMESTONE: Cobble pieces, Gravel Water clear @ first 1 ft Run. Core Run 1 - RMR Rating 70 : II - Good Quality Rock Mass
-100						
	2	99	96	3	1024.6	LIMESTONE: Light Gray, Hard, finely Crystalline with blue gray SHALEY CLAY seams with wavy calcite veins Core Run 2 - RMR Rating 85 : I - Very Good Quality Rock Mass
-105						
	3	100	100	5	694.1	LIMESTONE: Light Gray, Hard, finely Crystalline, medium bedded moderately jointed, trace Chert nodules, Trace Blue Gray SILTSTONE, Interbedded some vertical joints Core Run 3 - RMR Rating 80 : I - Very Good Quality Rock Mass
-110						
	4	97	97	3		LIMESTONE: Light Gray, with Chert, Trace SILTSTONE
-115						

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 1203+80.97  
 BORING NO. B-3 (NE Canal)  
 Station 1203+80.97  
 Offset 15.08ft RT  
 Ground Surface Elev. 396.4 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	QUALITY (%)	CORE TIME (min/ft)	STRENGTH (tsf)	DESCRIPTION
-120						Core Run 4 - RMR Rating 80 : I - Very Good Quality Rock Mass
-125						
-130						Terminated @ 126.8 ft @ EL. 269.58
-135						

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)

c:\pwworking\oma\d0549104\0600345-76A91-109-SBL.dgn jmgus 3/15/2011 5:05:41 PM



USER NAME = jmgus	DESIGNED - BWC	REVISED -
FILE NAME = 0600345-76A91-109-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. 109 OF 133 SHEETS

F.A.I. RTE. 270	SECTION 60-1B-1	COUNTY MADISON	TOTAL SHEETS 712	SHEET NO. 488
			CONTRACT NO. 76A91	
ILLINOIS FED. AID PROJECT				