Illinois Department of Transportation

SOIL BORING LOG

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Date 10/2/2008

ROUTE FA 646 (IL-40) DESCRIPTION IL-40 over the Rock River LOGGED BY JH

SECTION 1B-2 LOCATION NE 1/4 SEC.28 TWP. 21N RNG. 7E PM 3

COUNTY Whiteside STRUCTURE NO. 098-0014 (Exist.)

BORING NO. P2W DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic SPT Hammer

Station 727+39
Offset 46 Lt
Ground Surface Elev. _____ (ft.)

Surface Water Elev. 628.11 (ft.)
Groundwater Elev.
First Encounter ____ (ft.)
Upon Completion ____ (ft.)
After ____ Hrs. ____ (ft.)

SOIL DESCRIPTION	ELEV. (ft.)	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
Approx. 9.3 feet Water					
		-5			
	618.81				
WEATHERED LIMESTONE at 9.3 feet	618.11	-10	50/1"		13
LIMESTONE WITH CHERT AND SHALE LAYERS					
Run 1 10' – 18' : REC 94/96, 98% RQD 77/96, 80%					
Drill time: 10'-13': 3 minutes 13'-18': 5.5 minutes		-15		963	
Run2 18' – 28' : REC 120/120, 100% RQD 97/120, 81%					
Drill time: 18'-23': 5 minutes 23'-28': 3 minutes		-20			
(continued) LIMESTONE WITH CHERT AND SHALE LAYERS					
		-25			
Run 3 28' – 35' : REC 84/84, 100% RQD 84/84, 100%					
Drill time: 28'-33': 5 minutes 33'-35': 3 minutes		-30			
	593.11	-35			
Bottom of Boring @ 593.11'					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

Illinois Department of Transportation

ROCK CORE LOG

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Date 10/2/2008

ROUTE FAP 646 (IL 40) DESCRIPTION ILLINOIS 40 OVER ROCK RIVER STERLING – ROCK FALLS LOGGED BY G. Jamison

SECTION 1B-2 LOCATION NE ¼ SEC. 28 TWP. 21N RNG. 7E PM 3

COUNTY Whiteside CORING METHOD Wireline

STRUCT. NO. 098-0014 CORING BARREL TYPE & SIZE NQ

Station 729+71.26 Core Diameter 1 7/8 in
Top of Rock Elev. 618.81 ft
Begin Core Elev. 618.11 ft

BORING NO. B-P2W
Station 727+39
Offset 46 Lt
River Water Surface Elev. 628.11 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
DOLOMITE: light gray (occasionally light yellow brown) hard, fine to medium, slightly non-calcareous, occasional chert, horizontal joints, partially remineralized, generally hard and little to no soil filling. More than 50 pieces, ½" -10" long.	1	98	80		
Depth 10-13 feet took 3 minutes to core				1.0	
-15					963
Depth 13-18 feet took 5.5 minutes to core 610.11 -18				1.1	
More than 25 pieces, ½"-8" long; occasional clay filled thin joints or films	2	100	81		
-20					
Depth 18-23 feet took 5.5 minutes to core				1.1	
White below about 25 feet					
-25					
Depth 23-28 feet took 6 minutes to core 600.11 -28				1.2	
9 pieces, 3"-19" long Light gray below 29 feet	3	100	100		
-30					

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

BBS 138 (Rev. 3/01)

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BORING NO. B-P2W
Station 727+39
Offset 46 Lt
River Water Surface Elev. 628.11 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Slightly vesicular below about 30 feet; occasional vugs					
Depth 28-33 feet took 5 minutes to core				1.0	
Depth 33-35 feet took 3 minutes to core 593.11 -35				1.5	

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

BBS 138 (Rev. 3/01)

FILE NAME = D264380-sht-borings09.dgn	USER NAME = dwozniarski	DESIGNED - ACB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING AND ROCK CORE LOGS STRUCTURE NO. 098-0115	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JMB	REVISED -			646	1B-2	WHITESIDE	257	194
	PLOT SCALE = 1.0000 ' / IN.	DRAWN - RLK	REVISED -					CONTRACT NO. 64B80		
	PLOT DATE = 7/18/2011	CHECKED - ACB	REVISED -		SHEET NO. 91 OF 103 SHEETS			ILLINOIS FED. AID PROJECT		