Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 07/02/08

ROUTE FAP 646 (IL-40) DESCRIPTION IL-40 over the Rock River LOGGED BY CJ

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

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

BORING NO. RW3 DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic SPT Hammer

Station 723+77
Offset 43 Lt
Ground Surface Elev. 646.90 (ft.)

Surface Water Elev. ____ (ft.)
Groundwater Elev.
First Encounter 18.5 (ft.)
Upon Completion 8.25 (ft.)
After ____ Hrs. ____ (ft.)

SOIL DESCRIPTION	ELEV. (ft.)	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
Approx. 4" Asphaltic Concrete Approx. 12" Roadstone	645.57				
Brown, Fine to Medium GRAVELLY SAND (fill)			7 6 5		6
with clay	641.90	-5	7 4 9		6
Light Brown, Fine to Medium SAND (fill)			7 5 7		6
Light Brown, Fine to Medium SAND, with clayey silt lumps (fill)	638.90 636.90	-10	7 4 6		17
Light Brown and Brown, Fine to Coarse SAND, trace gravel (fill)			9 12 24		5
		-15	19 33 50/5"		3
Hard, Grey, SILTY CLAY trace gravel	627.90 -20		16 15 12	5.2	13

SOIL DESCRIPTION	ELEV. (ft.)	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
	625.90		12 14	5.2	15
Yellowish Brown LIMESTONE			50/2"		
Run 1 21' – 31' : REC 120/120, 100% Drill time: 8 minutes		-25			
		-30		726	
Run 2 31' – 36' : REC 60/60, 100% Drill time: 4 minutes		-35			
Light Grey, LIMESTONE Bottom of Boring @ 610.90'	611.40 610.90	-40			

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 (3/05)

Illinois Department of Transportation

ROCK CORE LOG

Page 1 of 1

Date 07/02/2008

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, 3 PM

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. 625.90 ft
BORING NO. B-RW3 Begin Core Elev. 625.90 ft
Station 723+77
Offset 43 Lt
Ground Surface Elev. 646.90 ft

DOLOMITE: yellow to yellow brown, hard, fine to medium, slightly to non-calcareous; occasional vugs, some partially calcite filled; horizontal joints partially remineralized, generally hard (little to no soil filling) Joint spacing at about 2-3 inches from about 21-26 feet Joint spacing increases with depth Greater than 50 rock pieces ranging from 1/2-6 inches in length	DEPTH (ft)	CORE (#)	RECOVERY (%)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
		1	100	34	0.8	
	-25					726
	-30					
15 rock pieces ranging from ½ - 11 inches in length	615.90	2	100	83	1.8	
White below about 35.5 feet	-35 610.90					

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 = D264880-sht-borings05.dgn	USER NAME = dwozniarski	DESIGNED - ACB	REVISED -
		CHECKED - JMB	REVISED -
	PLOT SCALE = 1.0000 ' / IN.	DRAWN - RLK	REVISED -
	PLOT DATE = 7/18/2011	CHECKED - ACB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS
STRUCTURE NO. 098-0115
SHEET NO. 87 OF 103 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	1B-2	WHITESIDE	257	190
		CONTRACT NO. 64B80		
	ILLINOIS	FED. AID PROJECT		