



SOIL BORING LOG

Page 1 of 1
Date 10/1/2008

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. 7EPM 3
COUNTY Whiteside STRUCTURE NO. 098-0014 (Exist.)

BORING NO. P1E DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic SPT Hammer

Station 725+97
Offset 38 Rt
Ground Surface Elev. (ft.)

SOIL DESCRIPTION (ft.) (blows) (tsf) (%)

SOIL DESCRIPTION	(ft.)	(blows)	(tsf)	(%)
Approx. 10.25 feet Water				
(continued) WEATHERED LIMESTONE Drill Time: 18'-23': 4.5 minutes 23'-28': 4.5 minutes				813
604.61 LIMESTONE WITH SHALE LAYERS				
Run 3 28'-35.5': REC 87/90, 87% RQD 71/90, 79% Drill time: 28'-33': 4.5 minutes 33'-35.5': 4.5 minutes				
617.86 WEATHERED LIMESTONE at 10.25 ft		50/1'		15
Run 1 10.5' - 18': REC 87/90, 87% RQD 71/90, 79% Drill time: 10.5'-13': 2 minutes 13'-18': 4.5 minutes				
610.61 CHERT				
610.11 WEATHERED LIMESTONE				
Run 2 18'-28': REC 120/120, 100% RQD 94/120, 78%				
Bottom of Boring @ 592.61'				

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)



ROCK CORE LOG

Page 1 of 2
Date 10/1/2008

ROUTE FAP 646 (IL 40) DESCRIPTION ILLINOIS 40 OVER ROCK RIVER LOGGED BY G. Jamison
SECTION 1B-2 LOCATION NE 1/4 SEC. 28 TWP. 21N RNG. 7E.3 PM

COUNTY Whiteside CORING METHOD Wireline

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

Station 729+71.28 Core Diameter 1.78 in

Top of Rock Elev. 617.86 ft

BORING NO. B-P1E Begin Core Elev. 617.61 ft

Station 725+97

Offset 38 Rt

River Water Surface Elev. 628.11 ft

DESCRIPTION	DEPTH (ft)	DIAMETER (in)	RECOVERY (%)	COHESION (lb/ft ²)	UNIT WEIGHT (pcf)	CORE TYPE	STRENGTH (tsf)
DOLOMITE: yellow brown to brown, hard, fine to medium, slightly to non-calcareous, occasional chert; horizontal joints, partially remineralized, generally hard and little to no soil filling. 30 pieces. 1/2" - 1"	617.61	-10.5	1	97	79		
Depth 10.5-13 feet took 2 minutes to core							0.8
Light gray to white from 17.4-18 feet							
Depth 13-18 feet took 4.5 minutes to core	810.11	-18	2	100	78		0.9
28 pieces, 1-10", occasional thin clay film/layer Partially filled vug at 19.5 feet							
Depth 18-23 feet took 4.5 minutes to core							0.9
Light gray to white below 23.3 feet							
Depth 23-28 feet took 4.5 minutes to core	600.11	-28	3	97	79		0.9
15 pieces, 1-16", occasional clay film in joint							

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)



ROCK CORE LOG

Page 2 of 2
Date 10/1/2008

ROUTE FAP 646 (IL 40) DESCRIPTION ILLINOIS 40 OVER ROCK RIVER LOGGED BY G. Jamison
SECTION 1B-2 LOCATION NE 1/4 SEC. 28 TWP. 21N RNG. 7E.3 PM

COUNTY Whiteside CORING METHOD Wireline

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

Station 729+71.28 Core Diameter 1.78 in

Top of Rock Elev. 617.86 ft

BORING NO. B-P1E Begin Core Elev. 617.61 ft

Station 725+97

Offset 38 Rt

River Water Surface Elev. 628.11 ft

DESCRIPTION	DEPTH (ft)	DIAMETER (in)	RECOVERY (%)	COHESION (lb/ft ²)	UNIT WEIGHT (pcf)	CORE TYPE	STRENGTH (tsf)
More vesicular and vugs below about 30 feet. Reconcreted vertical joint at about 31 feet							
Depth 28-33 feet took 4.5 minutes to core							0.9
Depth 33-35.5 feet took 2.5 minutes to core	592.61	-35					1.0

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)

FILE NAME = D264980-shr-borings06.dgn

USER NAME = dwozmaraki
PLOT SCALE = 1:8000 / IN
PLOT DATE = 7/18/2011

DESIGNED - ACB
CHECKED - JMB
DRAWN - RLK
CHECKED - ACB

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS
STRUCTURE NO. 098-0115

SHEET NO. 88 OF 103 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	1B-2	WHITESIDE	257	191
CONTRACT NO. 64B80			ILLINOIS FED. AID PROJECT	