



SOIL BORING LOG

Page 1 of 1
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. B-P3W DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic SPT Hammer

Station 728+71
Offset 48 LT
Ground Surface Elev. (ft.)

| SOIL DESCRIPTION | (ft.) | (blows) | (tsf) | (%) | SOIL DESCRIPTION | (ft.) | (blows) | (tsf) | (%) |
|--------------------------------------------------------------------------------------------------------------------------|--------|--------------|-------|-----|-------------------------------------------------------|-------|---------|-------|-----|
| Approx. 9 feet Water | | | | | (continued) LIMESTONE | | | | |
| | | | | | Drill time: 18'-23': 6 minutes 23'-28': 5 minutes | | | | |
| | | | | | | | | | |
| | | | | | Run 3 28' - 36' : REC 95/96, 99% RQD 82/96, 85% | | | | |
| | 619.11 | | | | | | | | |
| Dense Brown, Fine to Coarse GRAVELLY SAND | 617.61 | 7 9 22 | 8 | | Drill time: 28'-33': 5 minutes 33'-36': 3 minutes | | | | |
| WEATHERED LIMESTONE WITH CHERT AND SHALE SEAMS at 10.5 ft. Run 1 10.5' - 18' : REC 43/50, 48% RQD 10/50, 11% | | | | | | | | | |
| Drill time: 10.5'-15.5': 6 minutes 15.5'-18': 2.5 minutes | | | | | | | | | 839 |
| | | | | | | | | | |
| | | | | | Bottom of Boring @ 592.11' | | | | |
| | 610.11 | | | | | | | | |
| LIMESTONE Run 2 18' - 28' : REC 118/120, 99% RQD 90/120, 75% | | | | | | | | | |
| | | | | | | | | | |

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 T208)

BBS 137 (9/05)



ROCK CORE LOG

Page 1 of 2
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 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+71.26 Core Diameter 1.78 in
Top of Rock Elev. 617.61 ft
BORING NO. B-P3W Begin Core Elev. 617.61 ft
Station 728+71
Offset 48 LT
River Water Surface Elev. 628.11 ft

| DESCRIPTION | DEPTH (ft.) | RECOVERY (%) | RECOVERY (%) | CORE LENGTH (min/ft) | STRENGTH (tsf) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|--------------|----------------------|----------------|
| DOLOMITE: light gray, hard, fine to medium, slightly to non-calcareous, occasional chert, occasional vugs, some partially filled; horizontal joints, partially mineralized, generally hard and little to no soil filling. 2' thick clay seam near top of run. Bottom 2 feet more intact. Above 15 feet, badly broken, low recovery. (Jam in barrel noted.) Overall, more than 50 pieces 1/2"-7" long. | 617.61 | -20.5 | 1 | 48 | 11 |
| Depth 10.5-15.5 feet took 6 minutes to core | | | | | 1.2 |
| Depth 15.5-18 feet took 2.5 minutes to core More than 25 pieces 1/2"-14" long | 610.11 | -18 | 2 | 98 | 76 |
| Depth 18-23 feet took 6 minutes to core | | | | | 1.2 |
| Slightly vesicular below about 26 feet. | | | | | |
| Depth 23-28 feet took 6 minutes to core 14 pieces 1/2"-16" long More vesicular with depth. A few vugs. Occasional thin soil filled joint. | 600.11 | -26 | 3 | 98 | 85 |

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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| DESCRIPTION | DEPTH (ft.) | RECOVERY (%) | RECOVERY (%) | CORE LENGTH (min/ft) | STRENGTH (tsf) |
|-----------------------------------------|-------------|--------------|--------------|----------------------|----------------|
| Depth 28-33 feet took 5 minutes to core | | | | | 1.0 |
| More vugs below about 35 feet. | | | | | 839 |
| Depth 33-36 feet took 3 minutes to core | 592.11 | -36 | | | 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)

BBS 138 (Rev. 3/01)

FILE NAME = D264998-sht-borings11.dgn

USER NAME = dwoznarski
PLOT SCALE = 1:2000' / 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. 93 OF 103 SHEETS

F.A.P. RTE. 646 SECTION 1B-2 COUNTY WHITESIDE TOTAL SHEETS 257 SHEET NO. 196 CONTRACT NO. 64B80 ILLINOIS FED. AID PROJECT