



SOIL BORING LOG

Page 1 of 1
Date 10/2/2008

ROUTE FA 846 (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-P1W DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic SPT Hammer

Station 725+97
Offset 48 LL
Ground Surface Elev. (ft.)

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

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

Approx. 10.25 feet Water (continued) WEATHERED LIMESTONE

Run 3
28' - 35.5' : REC 84/90, 93%
RQD 69/90, 77%

LIMESTONE WITH SHALE LAYERS
Drill time: 28'-33': 6 minutes
33'-35.5': 2.5 minutes

WEATHERED LIMESTONE at 10.2 ft
Run 1
10.5' - 18' : REC 71/90, 79%
RQD 41/90, 46%

Drill time: 10.5' - 13': 2.5 minutes
13' - 18': 5 minutes

Run 2
18' - 28' : REC 101/120, 81%
RQD 51/120, 43%

Drill time: 18' - 23': 6 minutes
23' - 28': 5 minutes

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 T208)

BBS 137 (9/06)



ROCK CORE LOG

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Date 10/2/2008

ROUTE FAP 846 (IL 40) DESCRIPTION ILLINOIS 40 OVER ROCK RIVER LOGGED BY G. Jamison
STERLING - ROCK FALLS
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. 617.91 ft

BORING NO. B-P1W Begin Core Elev. 617.61 ft

Station 725+97
Offset 48 LL
River Water Surface Elev. 628.11 ft

DEPTH (ft) CORING METHOD (#) (%) (%) (min/ft) (tsf)

617.61 10.5 1 78 46

DOLOMITE: yellow brown to brown, hard, fine to medium, slightly to non-calcareous, occasional chert; occasional vugs, some partially filled; horizontal joints, partially remineralized, generally hard and little to no soil filling. More than 25 pieces, 1/2"-7". Less broken/jointed with depth. Depth 10.5-13 feet took 2.5 minutes to core

Two highly vesicular zones at about 17 feet

Depth 13-18 feet took 5 minutes to core
More than 30 pieces, 1/2"-1"

610.11 -18 2 84 43

4" inclined joint at about 21 feet

Depth 18-23 feet took 5 minutes to core
Thin clay filled joint at about 23 feet

Light gray from 25-26 feet, then light yellow brown grading to light gray with depth.

600.11 -28 3 93 77

Depth 23-28 feet took 5 minutes to core
12 pieces, 1.5"-18"

Light yellow brown to 29.5 feet, then light gray to gray.
4" inclined joint at about 30.3 feet

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-P1W Begin Core Elev. 617.61 ft

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Offset 48 LL
River Water Surface Elev. 628.11 ft

DEPTH (ft) CORING METHOD (#) (%) (%) (min/ft) (tsf)

Below 32.5 feet, few vugs, slightly vesicular

Depth 28-33 feet took 5 minutes to core

Depth 33-35.5 feet took 2.5 minutes to core

592.61 -35.5 1.0

Color pictures of the cores Yes

Cores will be stored for examination until

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BBS 138 (Rev. 3/01)

FILE NAME = D264808-sh-borings07.dgn

USER NAME = dwozniarski
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. 89 OF 103 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	1B-2	WHITESIDE	257	192
CONTRACT NO. 64B80			ILLINOIS FED. AID PROJECT	