STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| F.A.S. 1832 | 5BR-2 | WASHINGTON | 97 | 82 |
| FED. ROAD DIST. NO. 7 | | ILLINOIS | FED. AID PROJECT- | |

SHEET NO. 12
12 SHEETS

Contract #76949

## Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
District - Materials

Page 1 of 1

Date 2/25/11

ROUTE FAS 1832 DESCRIPTION IL 150 over Branch of Plum Creek LOGGED BY J. King

SECTION 5BR-2 LOCATION SE 1/4, SE 1/4, SEC. 27, TWP. 1S, RNG. 4W, 3 PM

COUNTY Washington DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 095-0007 (E) / 095-0078 (P)
Station 1510+80

BORING NO. 1 E. Abut
Station 1510+90
Offset 15.00ft Right
Ground Surface Elev. 448.72 ft

Surface Water Elev. ft
Stream Bed Elev. 439.72 ft

Groundwater Elev.:
First Encounter 442.0 ft
Upon Completion ft
After Hrs. ft

| Description | Elev. (ft) | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | WOIST (%) |
|---|---|---|---|---|---|
| Brown SILT | | | 3 | 0.65 S | 23 |
| | | -5 | 7 | 0.58 S | 26 |
| Brown and Gray Clay TILL | 442.0 | | 6 | 1.63 B | 20 |
| | | -10 | 5 | 0.65 B | 25 |
| Gray Clay TILL | 436.7 | | 3 | 0.20 B | 34 |
| Brown and Gray Clay TILL | 434.2 | -15 | 64 | 3.30 S | 11 |
| | | | 100 | 2.57 S | 12 |
| Gray SHALE | 429.2 | -20 | | | |
| Gray SHALE (continued) | | | 100 | - | - |
| | | | 100+ | - | - |
| | 423.5 | -25 | 100+ | - | - |
| Gray LIMESTONE | 422.5 | | 100+ | - | - |
| END OF BORING | | | | | |
| NOTE: Value in Blows/6" Column is the N-Value of the Sample | | -30 | | | |
| | | -35 | | | |
| | | -40 | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

## Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
District - Materials

Page 1 of 1

Date 2/25/11

ROUTE FAS 1832 DESCRIPTION IL 150 over Branch of Plum Creek LOGGED BY J. King

SECTION 5BR-2 LOCATION SE 1/4, SE 1/4, SEC. 27, TWP. 1S, RNG. 4W, 3 PM

COUNTY Washington DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 095-0007 (E) / 095-0078 (P)
Station 1510+80

BORING NO. 2 W. Abut
Station 1510+70
Offset 15.00ft Left
Ground Surface Elev. 448.52 ft

Surface Water Elev. ft
Stream Bed Elev. 439.72 ft

Groundwater Elev.:
First Encounter 435.8 ft
Upon Completion ft
After Hrs. ft

| Description | Elev. (ft) | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | WOIST (%) |
|---|---|---|---|---|---|
| Brown Silty CLAY | | | 3 | 0.52 B | 29 |
| | 444.0 | -5 | | | |
| Brown and Gray Clay TILL | | | 11 | 1.30 B | 22 |
| | | -10 | 10 | 1.11 B | 22 |
| | | -15 | 5 | 1.10 S | 22 |
| | | | 11 | 0.39 B | 20 |
| Gray TILL | 434.0 | -15 | 40 | 5.54 S | 11 |
| | | | 31 | 3.12 S | 11 |
| Gray Laminated SHALE | 429.8 | -20 | | | |
| Gray Laminated SHALE (continued) | | | 100+ | - | - |
| | | | 100+ | - | - |
| | 423.3 | -25 | 100+ | - | - |
| Gray LIMESTONE | 422.3 | | 100+ | - | - |
| END OF BORING | | | | | |
| NOTE: Value in Blows/6" Column is the N-Value of the Sample | | -30 | | | |
| | | -35 | | | |
| | | -40 | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

| | |
|---|---|
| DESIGNED | Nicholas R. Barnett |
| CHECKED | Ray Ahanchi |
| DRAWN | Gregory D. Farmer |
| CHECKED | NRB/GRA |

January 28 2008

EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

SOIL BORING LOGS
F.A.S. RTE. 1832 - SEC. 5BR-2
WASHINGTON COUNTY
STATION 1511+01.00
STRUCTURE NO. 095-0078

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