# SOIL BORING LOG

PAGE 1 of 2
DATE 6/24/2011
LOGGED BY DR
GSI JOB No. 10193

ROUTE FAI Rte. 1199
DESCRIPTION I-94 Interchange & Bridge Reconstruction, IDOT Job# D-91-019-11
SECTION 49-1(HB&HB-1)R
LOCATION Newport Township, Sections 4 & 9, T 46 N, R 11 E, 3rd PM
COUNTY Lake
DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 049-0089
Station 12+63
BORING NO. SB-04
Station 12+15
Offset 66' Right
Ground Surface Elev. 732.2

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry to 10'
Upon Completion n/a
After ___ Hrs.

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| 15.0" TOPSOIL-black | 730.9 | | AS | – | 22 |
| | | | 2 | | 88 |
| SILTY CLAY-dark brown-stiff (A-6) Wet | 729.2 | | 2 | | |
| | | | 4 | 1.0B | 26 |
| CLAY-brown & gray-very stiff to hard (A-6) | | | 3 | | 112 |
| | | | 4 | | |
| | | -5 | 6 | 3.4B | 17 |
| | | | 4 | | 113 |
| | | | 9 | | |
| | | | 11 | 6.3B | 16 |
| | | | 4 | | 117 |
| | | | 9 | | |
| | | -10 | 17 | 7.2B | 14 |
| | 721.7 | | | | |
| CLAY-gray-stiff to hard (A-6) | | | 5 | | 110 |
| | | | 8 | | |
| | | | 10 | 4.1B | 20 |
| | | | 3 | | 122 |
| | | | 5 | | |
| | | -15 | 7 | 2.8B | 14 |
| | | | 4 | | 116 |
| | | | 6 | | |
| | | | 7 | 2.25B | 17 |
| | | | 2 | | 118 |
| | | | 3 | | |
| | | -20 | 4 | 1.1B | 16 |
| CLAY-gray-stiff to hard (A-6) | 711.7 | | | | |
| SILTY LOAM-gray-medium dense (A-4) | 709.2 | | 2 | | |
| | | | 3 | | |
| | | | 7 | NP | 21 |
| | | | 3 | | 116 |
| | | | 5 | | |
| | | -25 | 6 | 2.25B | 17 |
| | | | 5 | | 107 |
| | | | 7 | | |
| | | | 9 | 1.0B | 17 |
| CLAY-gray-stiff (A-6) | | | 3 | | 115 |
| | | | 5 | | |
| | | -30 | 5 | 1.5B | 17 |
| | | | 2 | | 116 |
| | | | 3 | | |
| | | -35 | 5 | 1.0B | 17 |
| | | | 2 | | 101 |
| | | | 3 | | |
| | | -40 | 3 | 1.1B | 25 |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS=Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

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PAGE 2 of 2
DATE 6/24/2011
LOGGED BY DR
GSI JOB No. 10193

ROUTE FAI Rte. 1199
DESCRIPTION I-94 Interchange & Bridge Reconstruction, IDOT Job# D-91-019-11
SECTION 49-1(HB&HB-1)R
LOCATION Newport Township, Sections 4 & 9, T 46 N, R 11 E, 3rd PM
COUNTY Lake
DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 049-0089
Station 12+63
BORING NO. SB-04
Station 12+15
Offset 66' Right
Ground Surface Elev. 732.2

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry to 10'
Upon Completion n/a
After ___ Hrs.

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| CLAY-gray-stiff (A-6) | | | 3 | | 106 |
| | | | 5 | | |
| | | -45 | 5 | 1.4B | 22 |
| | 685.2 | | | | |
| CLAY-gray-stiff (A-6/A-7) Wet | | | 2 | | 96 |
| | | | 3 | | |
| | | -50 | 4 | 1.3B | 28 |
| | | | 2 | | 105 |
| | | | 4 | | |
| | | -55 | 5 | 1.2B | 23 |
| | | | 4 | | 101 |
| | | | 5 | | |
| | | -60 | 6 | 1.9B | 25 |
| CLAY-gray-stiff (A-6/A-7) Wet | | | 3 | | |
| | | | 5 | | |
| | | -65 | 6 | – | 31 |
| | 665.2 | | | | |
| CLAY-gray-stiff to very stiff (A-6) | | | 3 | | |
| | | | 6 | | |
| | | -70 | 8 | 1.1B | 18 |
| | | | 4 | | 108 |
| | | | 7 | | |
| | | -75 | 10 | 2.25B | 21 |
| | | | 4 | | 109 |
| | | | 6 | | |
| | | -80 | 8 | 2.3B | 20 |
| End Of Boring @ -80.0<br>Hollow Stem Augers To -10.0'<br>Rotary Drilling To Completion<br>10.0' Of 4.0"ø Casing Used<br>CME Automatic Hammer | 652.2 | | | | |

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NR-No Recovery

# SOIL BORING LOG

PAGE 1 of 1
DATE 7/8/2011
LOGGED BY RJ
GSI JOB No. 10193

ROUTE FAI 94
DESCRIPTION I-94 Interchange & Bridge Reconstruction, IDOT Job# D-91-019-11
SECTION 49-1(HB&HB-1)R
LOCATION Newport Township, Sections 4 & 9, T 46 N, R 11 E, 3rd PM
COUNTY Lake
DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 049-0078 & 049-0089
Station 12+63
BORING NO. SB-04A
Station 11+80
Offset 66' Right
Ground Surface Elev. 734.7

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry
Upon Completion Dry
After ___ Hrs.

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| 4.0" TOPSOIL-black | 734.3 | | AS | – | 18 |
| CLAY LOAM-brown-stiff (A-6) Fill | | | AS | 1.5P | 16 |
| CLAY LOAM-brown & gray-very stiff to hard (A-6) | | -5 | AS | 4.5P | 15 |
| | | | AS | 2.5P | 15 |
| | 725.7 | | AS | 2.5P | 22 |
| Auger Refusal @ -9.0'<br>End Of Boring<br>Hand Auger | | -10 | | | |
| | | -15 | | | |
| | | -20 | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS=Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery


BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com


| | | | |
|---|---|---|---|
| FILE NAME = | USER NAME = | DESIGNED - MRM | REVISED - |
| | | CHECKED - TL | REVISED - |
| | PLOT SCALE = N.T.S. | DRAWN - MTR | REVISED - |
| | PLOT DATE = 1/27/2012 | CHECKED - SF | REVISED - |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**SOLI BORING LOGS III**
**STRUCTURE NO. 049-0533**
SHEET NO. S-32 OF S-33 SHEETS

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 1199 | 49-1(HB & HB-1)R | LAKE | 225 | 146 |

CONTRACT NO. 60L76
ILLINOIS FED. AID PROJECT


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