Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

# SOIL BORING LOG



Date 12/13/11

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI

SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,
Latitude , Longitude

COUNTY Fulton DRILLING METHOD CME 750 w/HSA HAMMER TYPE AUTO

STRUCT. NO. N/A
Station N/A

BORING NO. B-03
Station 13+84.12
Offset 22.2 ft RT
Ground Surface Elev. 477.61 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter N/A ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

| | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|
| FILL: Brown, silty clay, with organics, trace sand and gravel (A-6) | | 4 | | |
| | | 3 3 | 0.3 P | 36 |
| 474.61 | | | | |
| FILL: Brown, silty clay loam, with organics, gravel, and sandstone fragments (A-6) | | 1 | | |
| | -5 | 2 1 | 0.3 P | 24 |
| Auger refusal at 5.5 ft. 472.11 | | | | |
| Borehole continued with rock coring. | | | | |
| | -10 | | | |
| | -15 | | | |
| | -20 | | | |

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)

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# ROCK CORE LOG



Date 12/13/11

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI

SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,
Latitude , Longitude

COUNTY Fulton CORING METHOD Rotary, surface set diamond bit

STRUCT. NO. N/A
Station N/A

BORING NO. B-03
Station 13+84.12
Offset 22.2 ft RT
Ground Surface Elev. 477.61 ft

CORING BARREL TYPE & SIZE NX conv dbl bbl split inner
Core Diameter 1.9 in
Top of Rock Elev. 472.11 ft
Begin Core Elev. 472.11 ft

| | DEPTH (ft) | CORE (#) | RECOVERY (%) | R.Q.D. (%) | CORE TIME (min/ft) | STRENGTH (tsf) |
|---|---|---|---|---|---|---|
| SANDSTONE: Gray, thinly bedded, slightly weathered | | 1 | 100 | 65 | | |
| 7' 2.5" - 1/2" clay seam | | | | | | |
| 7' 4" - 1/2" clay seam | | | | | | 165.6 |
| 8' 10" - 1.5" clay seam 468.61 | | | | | | |
| SHALEY CLAY: Gray | | | | | | |
| 9' 1/2" - thin coal seam | -10 | | | | | |
| 467.11 | | | | | | |
| CLAYEY SHALE: Brownish gray | | 2 | 100 | 90 | | 4.0 |
| 465.11 | | | | | | |
| SHALE: Gray, weathered | | | | | | |
| Becomes dark gray | -15 | | | | | |
| 461.48 | | 3 | 100 | 70 | | |
| CLAYEY SHALE: Dark gray | | | | | | |
| 460.28 | | | | | | |
| SHALE: Dark gray, weathered | | | | | | |
| 19' 2" - 1.5" clay seam | -20 | | | | | |
| 20' 10" - 1" clay seam | | | | | | |
| 456.19 | | | | | | |
| End of Boring | | | | | | |
| | -25 | | | | | |

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, form 138 (Rev. 8-99)

| | | | |
|---|---|---|---|
| FILE NAME = BROING FILE-sheets .dgn | USER NAME = aubreygs | DESIGNED - | REVISED - |
| | | DRAWN - | REVISED - |
| | PLOT SCALE = 2.0000 ' / in. | CHECKED - | REVISED - |
| Default | PLOT DATE = 3/21/2013 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS LOG

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 317 | (18)I | FULTON | 47 | 18 |
| | | CONTRACT NO. 68A25 | | |
| | ILLINOIS FED. AID PROJECT | | | |