**Illinois Department of Transportation**
Division of Highways
Reynolds Drilling Corp.

# SOIL BORING LOG

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Date 4/14/09

ROUTE County Road 700 North DESCRIPTION Bridge Replacement Boring LOGGED BY MEH

SECTION 06-00265-00-BR LOCATION Big Spring Taha, SEC. 11, TWP. 10N, RNG. 5E, 3rd PM

COUNTY Shelby DRILLING METHOD Hollow Stem Auger HAMMER TYPE Hydraulic

STRUCT. NO. 087-3014
Station

BORING NO. B-2
Station 184+45
Offset 14.00ft Rt
Ground Surface Elev. 602.51 ft

Surface Water Elev. ft
Stream Bed Elev. ft

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

| DEPTH (ft) | BLOWS (6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|
| SILTY CLAY LOAM, mixed silty clay, trace organics, fill, A-6 | 3 | | |
| | 4 | 0.4 | 16.7 |
| | 4 | B | |
| | 3 | | |
| | 4 | 0.6 | 13.1 |
| | 7 | B | |
| 598.51 | | | |
| | 5 | | |
| LOAM, gray, fills to some sand, A-4 | 5 | 0.4 | 16.8 |
| | 9 | B | |
| | 2 | | |
| | 2 | 0.6 | 23.9 |
| | 4 | B | |
| | 1 | | |
| | 1 | | 18.4 |
| | 1 | | |
| | 3 | | |
| | 6 | | 15.8 |
| | 13 | | |
| | 4 | | |
| | 8 | | 16.8 |
| | 8 | | |
| 584.31 | | | |
| Borehole continued with rock coring | 60 | | 21 |

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. 8-89)

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# ROCK CORE LOG

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Date 4/14/09

ROUTE County Road 700 North DESCRIPTION Bridge Replacement Boring LOGGED BY MEH

SECTION 06-00265-00-BR LOCATION Big Spring Taha, SEC. 11, TWP. 10N, RNG. 5E, 3rd PM

COUNTY Shelby CORING METHOD conventional

STRUCT. NO. 087-3014
Station

CORING BARREL TYPE & SIZE NX
Core Diameter 3 in
Top of Rock Elev. 584.31 ft
Begin Core Elev. 583.91 ft

BORING NO. B-2
Station 184+45
Offset 14.00ft Rt
Ground Surface Elev. 602.51 ft

| DEPTH (ft) | CORE (sf) | RECOVERY (%) | R.Q.D. (%) | CORE TIME (min/ft) | STRENGTH (tsf) |
|---|---|---|---|---|---|
| SHALE, dark gray to black, clayey, thinly bedded, fissile, moderately hard, dense, fine grain, slightly micaceous, flat bedded, weathered, at top, solid. | 1 | 67 | 50 | 2 | 9.7 |
| 580.01 | | | | | |
| SHALECLAYSTONE, gray, massive, soft blocky, solid. | 2 | 67 | 50 | 2 | 7.3 |
| 574.01 | | | | | |
| End of Boring | | | | | |

Color pictures of the cores No
Cores will be stored for examination until yes
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 139 (Rev. 8-89)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DESIGNED - | EXAMINED | | DATE - 4/19/2012 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SOIL BORING LOGS STRUCTURE NO. 087-3555 | F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| CHECKED - | | ENGINEER OF BRIDGE DESIGN | | | | 656 | 06-00265-00-BR | SHELBY | 29 | 28 |
| DRAWN - | PASSED | | REVISED | | SHEET NO. 11 OF 12 SHEETS | | | | CONTRACT NO. 95701 | |
| CHECKED - | | ENGINEER OF BRIDGES AND STRUCTURES | REVISED | | | | | ILLINOIS FED. AID PROJECT | | |