Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

# SOIL BORING LOG

Page 1 of 1

Date 2/4/10

ROUTE I-57/70 DESCRIPTION Overhead Sign Truss locations LOGGED BY E. Sandschafer

SECTION Various LOCATION NW 1/4, SEC. 31, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S025I057L158.0
Station 2077+87

BORING NO. 12A DL
Station 2078+14
Offset 19.00ft Lt
Ground Surface Elev. 584.83 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After 96 Hrs. 572.4 ft

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| 14" asphalt shoulder. | 583.63 | | | | |
| *Skipped this sample.* | 580.33 | | | | |
| Stiff, damp, gray, CLAY w/ some Silt. | | -5 | 1<br>3<br>5 | 1.7<br>B | 22 |
| Stiff, damp, gray marbled red, CLAY LOAM. | 577.83 | | 3<br>4<br>8 | 1.9<br>B | 33 |
| Stiff, damp, gray to red, CLAY. | 575.33 | -10 | 2<br>3<br>3 | 1.5<br>B | 20 |
| Soft, damp, red, LOAM. | 570.33 | -15 | 2<br>3<br>5 | 1.1<br>B | 20 |
| Very stiff, damp, red, SANDY CLAY. *Sample pokerchipped.* | 567.83 | | 1<br>3<br>15 | 0.3<br>B | 19 |
| | 565.33 | -20 | 19<br>37<br>44 | 3.3<br>S | 8 |
| | | | 14 | | |
| Hard, moist, brown, CLAY LOAM TILL. *(continued)* | | -25 | 32<br>30 | 7.1<br>S | 7 |
| | | | 8 | | |
| | | | 17<br>25 | +9.2<br>B | 9 |
| | | | 14 | | |
| | 558.83 | | 31<br>50/5" | 9.7<br>B | 8 |
| Extent of exploration. | | -30 | | | |
| | | -35 | | | |
| | | -40 | | | |

Latitude W 88 deg 34.482 min. Longitude N 39 deg 06.157 min. Map Datum WGS 84

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, from 137 (Rev. 8-99)

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Date 2/4/10

ROUTE I-57/70 DESCRIPTION Overhead Sign Truss locations LOGGED BY E. Sandschafer

SECTION Various LOCATION NW 1/4, SEC. 31, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S025I057L158.0
Station 2077+87

BORING NO. 12B PL
Station 2076+65
Offset 11.00ft Rt
Ground Surface Elev. 585.06 ft

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

Groundwater Elev.:
First Encounter 570.6 ft
Upon Completion 570.6 ft
After N/A Hrs. N/A ft

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| 14.5" asphalt shoulder. | 583.86 | | | | |
| Very soft, damp, gray, SILTY LOAM. | | | 2 | | |
| | | | 2<br>5 | 0.2<br>B | 21 |
| Stiff, damp, red and gray, CLAY w/ Sand. | 580.56 | -5 | 3<br>7<br>10 | 2.2<br>BS | 23 |
| Stiff, damp, brown, CLAY LOAM TILL. | 573.06 | -10 | 2<br>3<br>4 | 1.6<br>B | 17 |
| Loose, wet, brown, SANDY LOAM. *Unable to test for Qu.* | 570.56 | -15 | 2<br>6<br>7 | 1.9<br>B | 18 |
| Hard, moist, brown, CLAY LOAM TILL. | 568.06 | | 3<br>3<br>9 | 1.3<br>B | 16 |
| | | | 2<br>3<br>6 | | 28 |
| | 565.56 | -20 | 22<br>26<br>42 | 6.4<br>S | 8 |
| | | | 15 | | |
| Hard, damp, brown, SANDY CLAY TILL. *(continued)* | | -25 | 25<br>30 | 6.6<br>S | 9 |
| | | | 15 | | |
| | 561.56 | | 29<br>46 | 6.0<br>B | 8 |
| Extent of exploration. | | -30 | | | |
| | | -35 | | | |
| | | -40 | | | |

Latitude W 88 deg 34.452 min. Longitude N 39 deg 06.146 min. Map Datum WGS 84

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, from 137 (Rev. 8-99)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FILE NAME = S:\Projects\403-00072_57-70\dgn\S T-ILV\boring logs.dgn | USER NAME = paul | DESIGNED - ESW | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SOIL BORING LOGS FOR SIGN TRUSS FOUNDATIONS | F.A.I RTE. | SECTION | COUNTY | TOTAL SHEETS / SHEET NO. |
| | | DRAWN - PDB | REVISED - | | | 57/70 | (25-3)R | EFFINGHAM | 1416 / 389 |
| | PLOT SCALE = 40.0000 ' / IN. | CHECKED - BRM | REVISED - | | | | | CONTRACT NO. 74296 | |
| | PLOT DATE = 3/19/2010 | DATE - 3-11-10 | REVISED - | | SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA. | FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | |