Illinois Department of Transportation
Division of Highways
Illinois dot

# SOIL BORING LOG

Page 1 of 1

Date 9/18/12

ROUTE IL 71 DESCRIPTION IL 71 over a Stream, 0.5 miles Southwest of IL 47 LOGGED BY Larry Myers

SECTION 2 LOCATION NW 1/4, SEC. 8, TWP. 36N, RNG. 7E

COUNTY Kendall DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 047-2526 (Exist.)
Station 1396+50

BORING NO. 1 (N.E. Quad.)
Station 1396+52
Offset 18.00ft Lt.
Ground Surface Elev. 724.16 ft

Surface Water Elev. ft
Stream Bed Elev. 713.34 ft

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

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|
| Augered White Shoulder Stone, Brown & Black Silty Clay Loam Fill | | | |
| 721.66 | | | |
| Hard Brown, Black & Gray Silty Clay Loam Fill with Gravel Pieces | 5 | | |
| | 3<br>3 | 4.0<br>P | 16.1 |
| -5 | 5 | | |
| | 6<br>6 | >4.5<br>P | 14.3 |
| | 5 | | |
| | 3<br>5 | 4.3<br>B | 19.2 |
| 714.16 -10 | | | |
| Very Stiff Gray & Brown Silty Clay Loam Till with Silty Loam Layers | 3 | | |
| | 4<br>4 | 3.7<br>B | 16.8 |
| 712.16 | | | |
| Hard Brown & Gray Silty Clay Loam Till | 5 | | |
| | 8<br>9 | 5.7<br>S | 15.8 |
| 709.16 -15 | | | |
| Hard Brownish Gray Silty Clay Loam Till | 9 | | |
| | 10<br>12 | 6.1<br>S | 13.6 |
| | 5 | | |
| | 8<br>9 | 5.9<br>S | 12.3 |
| 704.16 -20 | | | |

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|
| Hard Gray Silty Clay/Clay | 6 | | |
| | 7<br>9 | 5.1<br>S | 18.6 |
| | 5 | | |
| | 8<br>10 | 5.5<br>S | 22.8 |
| -25 | 6 | | |
| | 10<br>12 | 5.9<br>S | 22.8 |
| | 8 | | |
| | 10<br>11 | 5.4<br>S | 23.3 |
| -30 | 5 | | |
| | 7<br>10 | 5.4<br>S | 23.3 |
| 692.66 | | | |
| End of Boring | | | |
| -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)

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SECTION 2 LOCATION NW 1/4, SEC. 8, TWP. 36N, RNG. 7E

COUNTY Kendall DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 047-2526 (Exist.)
Station 1396+50

BORING NO. 2 (S.W. Quad.)
Station 1396+30
Offset 18.00ft Rt.
Ground Surface Elev. 724.36 ft

Surface Water Elev. ft
Stream Bed Elev. 713.72 ft

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

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|
| Augered White Shoulder Stone, Black & Brown Silty Clay Loam Fill | | | |
| 721.86 | | | |
| Stiff to Very Stiff Brown & Black Silty Clay Loam Fill | 3 | | |
| | 2<br>2 | 1.5<br>P | 28.8 |
| -5 | 3 | | |
| | 2<br>3 | 1.5<br>P | 23.8 |
| 716.86 | | | |
| Very Stiff Black Silty Clay Loam Topsoil | 2 | | |
| | 3<br>4 | 2.0<br>P | 26.8 |
| 714.86 | | | |
| Hard Brown & Gray Silty Clay Loam Till | 3 | | |
| -10 | 4<br>5 | 4.0<br>S | 20.1 |
| | 3 | | |
| | 5<br>6 | 4.1<br>S | 18.4 |
| -15 | 4 | | |
| | 6<br>8 | 4.4<br>S | 15.6 |
| | 5 | | |
| | 9<br>8 | 4.3<br>S | 15.6 |
| -20 | | | |

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|
| Hard Brown & Gray Silty Clay Loam Till (continued) | 6 | | |
| | 6<br>9 | 4.5<br>S | 10.9 |
| 702.36 | | | |
| Hard Gray Clay/Silty Clay | 7 | | |
| | 8<br>9 | 5.1<br>S | 17.4 |
| -25 | 9 | | |
| | 9<br>10 | 5.3<br>S | 24.9 |
| | 9 | | |
| | 11<br>13 | 5.7<br>S | 22.5 |
| -30 | 10 | | |
| | 11<br>14 | 5.7<br>S | 21.9 |
| 692.86 | | | |
| End of Boring | | | |
| -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)

| | | | |
|---|---|---|---|
| FILE NAME = c:\pw_work\pwidot\pately\d0311733\D366C48-sht-details.dgn | USER NAME = pately | DESIGNED - RS | REVISED - |
| | | DRAWN - RS | REVISED - |
| | PLOT SCALE = 100.0000 ' / in. | CHECKED - RW | REVISED - |
| | PLOT DATE = 4/3/2013 | DATE - | REVISED - |

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

**BORING LOGS FOR LOCATION 6: SN 047-2526**

SCALE: | SHEET 6 OF 6 SHEETS | STA. 1396+50

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | D3 WW REPAIR 2014-1 | * | 41 | 41 |
| | *KENDALL & LASALLE | CONTRACT NO. 66C40 | | |
| | ILLINOIS FED. AID PROJECT | | | |