O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1235 E. DAVIS ST./ARLINGTON HTS., IL 60005
(847)388-1441 • FAX(847) 398-2376

# SOIL BORING LOG



DATE October 3, 2008
LOGGED BY DR
OBA JOB No. 08607

ROUTE FAS 0031 DESCRIPTION Kishwaukee Valley Road Over the N. Branch of the Kishwaukee River
SECTION 06-00323-00-BR LOCATION Woodstock, Illinois
COUNTY McHenry DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE Mobile Automatic

STRUCT. NO. 056-3014
Station –
BORING NO. B-2
Station: 150+05
Offset: 6.0' Right
Ground Surface Elev. 847.8 ft

Surface Water Elev. n/a
Stream Bed Elev. 837.0
Groundwater Elevation:
First Encounter 837.8 ft ▼
Upon Completion n/a ▽
After n/a Hrs. n/a ▽

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| 8.0" ASPHALT | 847.1 | | | | |
| SAND & GRAVEL–dark brown & gray–loose to dense (A–1) | | –5 | 5, 7, 5 | NP | 4 |
| | | | 4, 4, 4 | NP | 8 |
| | | | 3, 5, 5 | NP | 9 |
| | | –10 | 3, 4, 4 | NP | 11 |
| | | | 5, 9, 12 | NP | 9 |
| | | –15 | 7, 5, 3 | NP | 23 |
| | | | 7, 8, 9 | NP | 18 |
| | | –20 | 11, 8, 10 | NP | 13 |
| SAND & GRAVEL–dark brown & gray–loose to dense (A–1) | | –25 | 10, 13, 15 | NP | 16 |
| | | | 9, 30, 19 | NP | 13 |
| | 821.3 | | 4, 4, 7 | NP | 74 |
| Sedimentary PEAT–dark brown (A–8) | | –30 | 7, 7, 7 | NP | 113 |
| | | | 2, 3, 4 | NP | 54 |
| | 814.3 | | | | |
| SILTY CLAY–dark brown–stiff (A–6) | | –35 | 2, 3, 3 | 1.5P | 21 |
| | 811.8 | | | | |
| SILTY LOAM to LOAM–brownish gray–medium dense to dense (A–4) | | –40 | 5, 11, 14 | NP | 27 |
| | | | 11, 12, 13 | NP | 32 |

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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Stream Bed Elev. 837.0
Groundwater Elevation:
First Encounter 837.8 ft ▼
Upon Completion n/a ▽
After n/a Hrs. n/a ▽

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| SILTY LOAM to LOAM–brownish gray–medium dense to dense (A–4) | | –45 | 11, 6, 13 | NP | 12 |
| CLAY LOAM–trace gravel–gray–very stiff to hard (A–4/A–6) | 781.8 | –65 | 10, 11, 17 | 4.0P | 10 |
| Drillers's Observation: Possible Boulder or Bedrock | 779.8 | | | | |
| End of Boring @ –68.0' Hollow Stem Auger to –10.0' Rotary Drilling To Completion Mobil Automatic Hammer 10.0' of 4.0" Casing Used | | –50 | 11, 14, 21 | NP | 14 |
| | 794.3 | | | | |
| CLAY LOAM to LOAM–gray–very stiff to hard (A–4/A–6) | | –55 | 14, 18, 23 | 3.75P | 9 |
| | | –60 | 50/6" | 3.75P | 9 |
| | | –70 | | | |
| | | –75 | | | |
| | | –80 | | | |

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

Sheet No. S-23 of 23

FILE NAME = \\uschgl fp207\p60095873\p60095873\900.cad\901_drawings\sheet\structural\056-3177_60095873_S23_Soil_Boring_Log_light

AECOM

USER NAME = dabezicd
PLOT SCALE = 0:1 ':' / IN.
PLOT DATE = 5/28/2009

| | | | |
|---|---|---|---|
| DESIGNED - | DD | REVISED - | |
| DRAWN - | DD | REVISED - | |
| CHECKED - | ATB | REVISED - | |
| DATE - | 3/18/2009 | REVISED - | |

**MCHENRY COUNTY**
**DIVISION OF TRANSPORTATION**

**SOIL BORING LOGS**
**STRUCTURE NO. 056-3177**

SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0031 | 06-00323-00-BR | MCHENRY | 53 | 42 |

CONTRACT NO. 63218
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT