## Illinois Department of Transportation
Division of Highways
Wang Engineering, Inc.

# SOIL BORING LOG

Page 1 of 3

Date 10/19/09

ROUTE FAI 74 (I-74)/FAI 155 (I-155) DESCRIPTION I-74 over I-155 LOGGED BY F. Bozga

SECTION (90-14)R LOCATION Morton, IL, SEC. 18, TWP. 25 N, RNG. 3 W, 3rd PM, Latitude , Longitude

COUNTY Tazewell DRILLING METHOD HSA HAMMER TYPE Automatic

STRUCT. NO. EX 090-0012 (WB) EX 090-0013 (EB)
Station 540+01.31

BORING NO. TB-102
Station 540+99.2
Offset 113ft RT
Ground Surface Elev. 728.20 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

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

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| 2-inch thick, black SILTY CLAY LOAM --TOPSOIL-- | 728.03 | | | | |
| Stiff, brown SILTY CLAY LOAM --FILL-- | | | 1 | | |
| | | | 2 | 1.8 | 24 |
| | | | 4 | P | |
| | 725.20 | | | | |
| Stiff, brown and gray SILTY LOAM | | | 2 | | |
| | | | 3 | 1.9 | 22 |
| | | -5 | 4 | B | |
| | | | 1 | | |
| | | | 2 | NP | 22 |
| | | | 3 | | |
| | 720.20 | | | | |
| Soft to medium stiff, gray SILTY LOAM A-6 (5) LL=25% PL=14% | | | 1 | | |
| | | | 2 | 0.7 | 18 |
| | | -10 | 3 | B | |
| | | | 1 | | |
| | | | 2 | 0.4 | 14 |
| | | | 2 | B | |
| | 715.20 | | | | |
| Stiff to very stiff, gray SILTY LOAM to SILTY CLAY LOAM | | | 2 | | |
| | | | 3 | 1.9 | 15 |
| | | -15 | 4 | B | |
| | | | 2 | | |
| | | | 3 | 2.6 | 15 |
| | | | 6 | B | |
| | | | 2 | | |
| | | | 3 | 2.2 | 14 |
| | | -20 | 5 | B | |

Stiff to very stiff, gray SILTY LOAM to SILTY CLAY LOAM *(continued)*

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|
| | 3 | | |
| | 4 | 1.8 | 14 |
| | 5 | B | |
| | 3 | | |
| A-6 (6) LL=28% PL=14% | 4 | 1.9 | 11 |
| -25 | 4 | B | |
| | 2 | | |
| | 4 | 1.6 | 16 |
| | 5 | B | |
| | 2 | | |
| | 4 | 2.2 | 14 |
| -30 | 6 | B | |
| | 4 | | |
| | 5 | 2.7 | 14 |
| -35 | 6 | B | |
| | 3 | | |
| | 5 | 2.1 | 13 |
| -40 | 6 | B | |

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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STRUCT. NO. EX 090-0012 (WB) EX 090-0013 (EB)
Station 540+01.31

BORING NO. TB-102
Station 540+99.2
Offset 113ft RT
Ground Surface Elev. 728.20 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

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

Stiff to very stiff, gray SILTY LOAM to SILTY CLAY LOAM *(continued)*

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|
| | 2 | | |
| | 4 | 2.3 | 13 |
| -45 | 6 | B | |
| | 3 | | |
| | 5 | 2.4 | 14 |
| -50 | 7 | B | |
| | 4 | | |
| | 6 | 2.1 | 13 |
| -55 | 9 | B | |
| | 4 | | |
| | 7 | 2.2 | 13 |
| -60 | 9 | B | |

Stiff to very stiff, gray SILTY LOAM to SILTY CLAY LOAM *(continued)*

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|
| | 4 | | |
| | 7 | 2.4 | 11 |
| -65 | 9 | B | |
| | 5 | | |
| | 7 | 2.5 | 12 |
| -70 | 9 | B | |
| | 3 | | |
| | 6 | 2.2 | 13 |
| -75 | 8 | B | |
| | 9 | | |
| | 11 | 3.0 | 12 |
| -80 | 17 | B | |

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Stream Bed Elev. NA ft

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

Stiff to very stiff, gray SILTY LOAM to SILTY CLAY LOAM *(continued)*

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|
| | 6 | | |
| | 15 | 3.3 | 11 |
| -85 | 15 | B | |
| | 5 | | |
| | 11 | 2.6 | 11 |
| -90 | 13 | B | |
| | 12 | | |
| | 19 | NP | 11 |
| -95 | 23 | | |
| | 8 | | |
| | 11 | 2.7 | 12 |
| 628.20 -100 | 14 | B | |

End of Boring

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)

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Chicago, Illinois 60601
312-565-0450 Job No. 10056

| | | | |
|---|---|---|---|
| FILE NAME = 0900165_68620_37_log6.dgn | USER NAME = mbecker | DESIGNED - MFB | REVISED - |
| | | CHECKED - MRB | REVISED - |
| | PLOT SCALE = | DRAWN - PRT | REVISED - |
| | PLOT DATE = 7/16/2012 | CHECKED - MRB | REVISED - |

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

**SOIL BORING LOGS 6 OF 6**
**STRUCTURE NO. 090-0165 / 0166**

SHEET NO. SA37 OF SA47 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 74 | 90-[14R;(14HB-4,14,14HVB)BR] | TAZEWELL | 2433 | 1901 |
| | | CONTRACT NO. 68620 | | |
| | | ILLINOIS FED. AID PROJECT | | |

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