



Illinois Department of Transportation  
Division of Highways  
Weng Engineering, Inc.  
FAI 74 (I-74)/FAI 155 (I-155)

### SOIL BORING LOG

Page 1 of 3

Date 10/20/09

ROUTE I-74 over 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, 3<sup>rd</sup> PM.

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-101  
Station 538+68.5  
Offset 87.5ft LT  
Ground Surface Elev. 726.60 ft

| DEPTH (ft) | SOIL DESCRIPTION                                     | UCS (tsf) | B (%) | S (%) | P (%) | DEPTH (ft) | SOIL DESCRIPTION   | UCS (tsf) | B (%) | S (%) | P (%) |
|------------|--|-----------|-------|-------|-------|------------|--|-----------|-------|-------|-------|
| 726.43     | 2-inch thick, black CLAY LOAM -TOPSOIL-              |           |       |       |       | 706.10     | Stiff to very stiff, gray SILTY CLAY                         |           |       |       |       |
| 2          | Very stiff, brown CLAY LOAM, trace gravel            |           | 4     | 3.8   | 11    | 4          |  |           |       |       |       |
| 5          |  |           |       |       |       | 8          |  |           |       |       |       |
| 723.60     | Very stiff, brown and gray SILTY LOAM                |           |       |       |       | 4          |  |           |       |       |       |
| 2          |  |           | 2     | 2.1   | 24    | 5          |  |           |       |       |       |
| 4          |  |           |       |       |       | 7          |  |           |       |       |       |
| 721.10     | Very soft to medium stiff, brown and gray SILTY LOAM |           |       |       |       | 25         |  |           |       |       |       |
| 1          |  |           | 2     |       |       | 4          |  |           |       |       |       |
| 2          |  |           | 2     | 0.3   | 28    | 7          |  |           |       |       |       |
| 2          |  |           |       |       |       | 8          |  |           |       |       |       |
| 711.10     | Stiff, gray SILTY CLAY LOAM, trace gravel            |           |       |       |       | 697.10     | Medium dense, gray SANDY LOAM, little gravel                 |           |       |       |       |
| 1          |  |           | 1     | < 0.3 | 32    | 30         |  |           |       |       |       |
| 1          |  |           |       |       |       | 4          |  |           |       |       |       |
| 3          |  |           | 3     | 1.0   | 21    | 7          |  |           |       |       |       |
| 5          |  |           |       |       |       | 8          |  |           |       |       |       |
| 711.10     | Stiff, gray SILTY CLAY LOAM, trace gravel            |           |       |       |       | 692.60     | Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel |           |       |       |       |
| 2          |  |           | 3     | 1.0   | 16    | 35         |  |           |       |       |       |
| 3          |  |           |       |       |       | 4          |  |           |       |       |       |
| 4          |  |           | 3     | 1.6   | 15    | 10         |  |           |       |       |       |
| 4          |  |           |       |       |       | 11         |  |           |       |       |       |
| 711.10     | Stiff, gray SILTY CLAY LOAM, trace gravel            |           |       |       |       | 5          |  |           |       |       |       |
| 2          |  |           | 4     |       |       | 7          |  |           |       |       |       |
| 3          |  |           |       |       |       | 10         |  |           |       |       |       |
| 4          |  |           | 3     |       |       | 11         |  |           |       |       |       |
| 4          |  |           |       |       |       | 13         |  |           |       |       |       |
| 21         |  |           | 2     | 2.0   | 13    | 14         |  |           |       |       |       |
| 9          |  |           |       |       |       | 14         |  |           |       |       |       |
| 20         |  |           | 6     | 2.1   | 14    | 14         |  |           |       |       |       |
| 20         |  |           |       |       |       | 14         |  |           |       |       |       |

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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Ground Surface Elev. 726.60 ft

| DEPTH (ft) | SOIL DESCRIPTION   | UCS (tsf) | B (%) | S (%) | P (%) | DEPTH (ft) | SOIL DESCRIPTION   | UCS (tsf) | B (%) | S (%) | P (%) |
|------------|--|-----------|-------|-------|-------|------------|--|-----------|-------|-------|-------|
| 726.60     | Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel (continued) |           |       |       |       | 706.10     | Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel (continued) |           |       |       |       |
| 5          |  |           | 5     |       |       | 5          |  |           |       |       |       |
| 8          |  |           | 8     | 3.0   | 14    | 7          |  |           |       |       |       |
| 11         |  |           |       |       |       | 11         |  |           |       |       |       |
| 726.60     | Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel (continued) |           |       |       |       | 697.10     | Medium dense, gray SANDY LOAM, little gravel                             |           |       |       |       |
| 5          |  |           | 5     |       |       | 30         |  |           |       |       |       |
| 7          |  |           | 7     | 3.0   | 13    | 4          |  |           |       |       |       |
| 11         |  |           |       |       |       | 7          |  |           |       |       |       |
| 726.60     | Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel (continued) |           |       |       |       | 692.60     | Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel             |           |       |       |       |
| 5          |  |           | 4     |       |       | 35         |  |           |       |       |       |
| 8          |  |           | 8     | 2.8   | 13    | 4          |  |           |       |       |       |
| 11         |  |           |       |       |       | 11         |  |           |       |       |       |
| 726.60     | Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel (continued) |           |       |       |       | 5          |  |           |       |       |       |
| 6          |  |           | 6     |       |       | 7          |  |           |       |       |       |
| 9          |  |           | 9     | 2.7   | 13    | 13         |  |           |       |       |       |
| 13         |  |           |       |       |       | 13         |  |           |       |       |       |
| 726.60     | Dense, gray SILTY LOAM   |           |       |       |       | 629.60     |  |           |       |       |       |
| 8          |  |           | 5     |       |       | 8          |  |           |       |       |       |
| 9          |  |           | 9     | 2.5   | 14    | 10         |  |           |       |       |       |
| 13         |  |           |       |       |       | 10         |  |           |       |       |       |
| 726.60     | End of Boring  |           |       |       |       | 626.60     |  |           |       |       |       |
| 21         |  |           | 16    | NP    | 12    | 21         |  |           |       |       |       |

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|------------|--|-----------|-------|-------|-------|------------|--|-----------|-------|-------|-------|
| 726.60     | Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel (continued) |           |       |       |       | 706.10     | Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel (continued) |           |       |       |       |
| 11         |  |           | 11    |       |       | 11         |  |           |       |       |       |
| 15         |  |           | 15    | 2.4   | 15    | 22         |  |           |       |       |       |
| 22         |  |           |       |       |       | 5          |  |           |       |       |       |
| 726.60     | Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel (continued) |           |       |       |       | 10         |  |           |       |       |       |
| 5          |  |           | 5     |       |       | 14         |  |           |       |       |       |
| 7          |  |           | 7     | 3.6   | 13    | 14         |  |           |       |       |       |
| 12         |  |           |       |       |       | 5          |  |           |       |       |       |
| 726.60     | Dense, gray SILTY LOAM   |           |       |       |       | 9          |  |           |       |       |       |
| 8          |  |           | 8     | 2.1   | 13    | 11         |  |           |       |       |       |
| 9          |  |           |       |       |       | 11         |  |           |       |       |       |
| 726.60     | End of Boring  |           |       |       |       | 629.60     |  |           |       |       |       |
| 16         |  |           | 16    | NP    | 12    | 8          |  |           |       |       |       |
| 21         |  |           |       |       |       | 21         |  |           |       |       |       |

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Alfred Benesch & Company  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-565-0450 Job No. 10056

FILE NAME = 0900165.68620.36.log5.dgn

USER NAME = mbecker  
DESIGNED - MFB  
CHECKED - MRB  
PLOT SCALE =  
DRAWN - PRT  
PLOT DATE = 7/16/2012

REVISOR -  
REVISED -  
REVISOR -  
REVISED -  
REVISOR -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS 5 OF 6  
STRUCTURE NO. 090-0165 / 0166

SHEET NO. SA36 OF SA47 SHEETS

| F.A.I. RTE.        | SECTION                    | COUNTY   | TOTAL SHEETS              | SHEET NO. |
|--------------------|----------------------------|----------|---------------------------|-----------|
| 74                 | 90-[I4R]14HB-4,14,14HB[BR] | TAZEWELL | 2433                      | 1900      |
| CONTRACT NO. 68620 |                            |          | ILLINOIS FED. AID PROJECT |           |

x:\10000s\10056\engineer\ing-documents\phase-1\155over-174\final\0900165.68620.36.log5.dgn 10:54:10 AM 7/16/2012