STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

# SOIL BORING LOG

Page 1 of 4

Date 9/14/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandschafer

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

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

STRUCT. NO. 025-0009/0010
Station 2003+70

BORING NO. 6 E Abut
Station 2006+04
Offset 6.00ft Rt
Ground Surface Elev. 525.15 ft

Surface Water Elev. 499.46 ft
Stream Bed Elev. 496.46 ft

Groundwater Elev.:
First Encounter 497.2 ft
Upon Completion Washed ft
After 336 Hrs. 501.2 ft

| Description | Elev. | DEPTH (ft) | BLOWS (6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| Topsoil. | 525.05 | | | | |
| Hard, moist, brown marbled red, CLAY LOAM TILL. | | | 36 | | |
| | | | 19 | +4.5 | 7 |
| | | | 16 | PP | |
| | | -5 | 7 | | |
| | 519.85 | | 11 | 2.2 | 10 |
| Very stiff, damp, gray, SANDY CLAY LOAM TILL. | | | 13 | S | |
| | 518.15 | | 2 | | |
| Stiff, damp, gray, SANDY LOAM. | | | 6 | 1.5 | 13 |
| | | | 9 | S | |
| | 515.65 | -10 | 2 | | |
| Stiff, damp, gray, LOAM. | | | 5 | 1.5 | 14 |
| | | | 5 | S | |
| | 513.15 | | 2 | | |
| Stiff to very stiff, damp, gray, SANDY CLAY LOAM. | | | 7 | 2.0 | 18 |
| | | | 7 | S | |
| | 510.65 | -15 | 3 | | |
| Soft, damp, gray, SANDY LOAM. | | | 2 | 0.4 | 18 |
| | 509.35 | | 3 | S | |
| Gray, fluffy, SAND. | 508.15 | | | | |
| Soft, damp, gray, SANDY LOAM to SILTY LOAM. | | | 0 | | |
| | | | 2 | 0.4 | 10 |
| | | | 3 | S | |
| | | -20 | 0 | | |
| Soft, damp, gray, SANDY LOAM to SILTY LOAM. (continued) | | | 2 | 0.8 | 24 |
| | | | 2 | B | |
| | 503.15 | | | | |
| Loose, damp, gray, fine grained, SAND. 5% passing #200 sieve. | | | 0 | | |
| | | | 3 | | 6 |
| | | | 4 | | |
| | | -25 | 1 | | |
| 6% passing #200 sieve. | | | 4 | | 16 |
| | | | 4 | | |
| | | | 1 | | |
| 8% passing #200 sieve. | | | 1 | | 23 |
| | | | 1 | | |
| | 495.65 | -30 | 0 | | |
| Medium, wet, gray, Gravelly SAND. 5% passing #200 sieve. | | | 4 | | 20 |
| | | | 6 | | |
| | 490.65 | -35 | 3 | | |
| Very stiff, damp, gray, CLAY TILL w/few wood fragments. | | | 6 | 2.1 | 18 |
| | | | 8 | B | |
| | 485.65 | -40 | 4 | | |

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)

Latitude N 39 deg 35.026, Longitude W 88 deg 57.444 min, Map Datum WGS 84

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| Description | Elev. | DEPTH (ft) | BLOWS (6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| Stiff to very stiff, damp, gray, CLAY LOAM TILL. (continued) | | | 9 | 1.9 | 17 |
| | | | 8 | B | |
| | | -45 | 3 | | |
| | | | 5 | 1.6 | 18 |
| | | | 6 | B | |
| | | -50 | 2 | | |
| | | | 6 | 2.6 | 16 |
| | | | 8 | B | |
| | | -55 | | | |
| | | -60 | 10 | | |
| Stiff to very stiff, damp, gray, CLAY LOAM TILL. (continued) | | | 17 | 3.2 | 15 |
| | | | 29 | S | |
| | | -65 | | | |
| Gray, SANDY LOAM. | 455.65 | | 6 | | |
| Medium, wet, gray, Gravelly SAND. 3% passing #200 sieve. | 455.05 | -70 | 18 | | 22 |
| | | | 8 | | |
| | | -75 | | | |
| | 445.65 | -80 | 4 | | |

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|---|---|---|---|---|---|
| Very stiff, damp, gray, SILTY CLAY TILL. (continued) | | | 7 | 3.4 | 18 |
| | | | 11 | B | |
| | | -85 | | | |
| | 435.65 | | | | |
| Very dense, moist, gray, SANDY CLAY SHALE. | 433.15 | -90 | 50/3" | | 11 |
| | | | 50/1" | | |
| Borehole continued with rock coring. | | | 50/0" | | |
| | | -95 | | | |
| | | -100 | | | |

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| | |
|---|---|
| DESIGNED | |
| CHECKED | |
| DRAWN | W.J.S. |
| CHECKED | C.J.F. & B.B. |

BERNARDIN LOCHMUELLER & ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62062-5635
Local-(618) 288-4665
Fax 618-288-4666

## BORING LOGS
## S.N. 025-0107 & 025-0108

| SHEET NO. 57 | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 58 SHEETS | 70 | (25-3)B | EFFINGHAM | 1416 | 89 |
| | SN 025-0107 & 025-0108 | | CONTRACT NO. 74296 | | |
| | FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT 70 | | |

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