

Boring #1 (2002)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation - District 7

SOIL BORING LOG Page 1 of 3
Date 6/18/02

ROUTE FAP 774 (IL 33) DESCRIPTION Little Wabash River Overflow LOGGED BY E. Sandschaefer

SECTION 107WRS-1 LOCATION NW 1/4, SEC. 18, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Automatic

STRUCT. NO. 025-0077
Station 1018+84.5

BORING NO. 1 of 1 (Pier #1)
Station 1018+95
Offset 36.00 ft
Ground Surface Elev. 528.45 ft

| DEPTH (ft) | DEPTH (ft) | DEPTH (ft) | DEPTH (ft) | DEPTH (ft) | DEPTH (ft) |
|------------|------------|------------|------------|------------|------------|
| 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 2 | 2 | 2 | 2 | 2 |
| 4 | 4 | 4 | 4 | 4 | 4 |
| 6 | 6 | 6 | 6 | 6 | 6 |
| 8 | 8 | 8 | 8 | 8 | 8 |
| 10 | 10 | 10 | 10 | 10 | 10 |
| 12 | 12 | 12 | 12 | 12 | 12 |
| 14 | 14 | 14 | 14 | 14 | 14 |
| 16 | 16 | 16 | 16 | 16 | 16 |
| 18 | 18 | 18 | 18 | 18 | 18 |
| 20 | 20 | 20 | 20 | 20 | 20 |
| 22 | 22 | 22 | 22 | 22 | 22 |
| 24 | 24 | 24 | 24 | 24 | 24 |
| 26 | 26 | 26 | 26 | 26 | 26 |
| 28 | 28 | 28 | 28 | 28 | 28 |
| 30 | 30 | 30 | 30 | 30 | 30 |
| 32 | 32 | 32 | 32 | 32 | 32 |
| 34 | 34 | 34 | 34 | 34 | 34 |
| 36 | 36 | 36 | 36 | 36 | 36 |
| 38 | 38 | 38 | 38 | 38 | 38 |
| 40 | 40 | 40 | 40 | 40 | 40 |
| 42 | 42 | 42 | 42 | 42 | 42 |
| 44 | 44 | 44 | 44 | 44 | 44 |
| 46 | 46 | 46 | 46 | 46 | 46 |
| 48 | 48 | 48 | 48 | 48 | 48 |
| 50 | 50 | 50 | 50 | 50 | 50 |
| 52 | 52 | 52 | 52 | 52 | 52 |
| 54 | 54 | 54 | 54 | 54 | 54 |
| 56 | 56 | 56 | 56 | 56 | 56 |
| 58 | 58 | 58 | 58 | 58 | 58 |
| 60 | 60 | 60 | 60 | 60 | 60 |
| 62 | 62 | 62 | 62 | 62 | 62 |
| 64 | 64 | 64 | 64 | 64 | 64 |
| 66 | 66 | 66 | 66 | 66 | 66 |
| 68 | 68 | 68 | 68 | 68 | 68 |
| 70 | 70 | 70 | 70 | 70 | 70 |
| 72 | 72 | 72 | 72 | 72 | 72 |
| 74 | 74 | 74 | 74 | 74 | 74 |
| 76 | 76 | 76 | 76 | 76 | 76 |
| 78 | 78 | 78 | 78 | 78 | 78 |
| 80 | 80 | 80 | 80 | 80 | 80 |
| 82 | 82 | 82 | 82 | 82 | 82 |
| 84 | 84 | 84 | 84 | 84 | 84 |
| 86 | 86 | 86 | 86 | 86 | 86 |
| 88 | 88 | 88 | 88 | 88 | 88 |
| 90 | 90 | 90 | 90 | 90 | 90 |
| 92 | 92 | 92 | 92 | 92 | 92 |
| 94 | 94 | 94 | 94 | 94 | 94 |
| 96 | 96 | 96 | 96 | 96 | 96 |
| 98 | 98 | 98 | 98 | 98 | 98 |
| 100 | 100 | 100 | 100 | 100 | 100 |

Surface Water Elev. 523.20 ft
Stream Bed Elev. 521.90 ft

Groundwater Elev.:
First Encounter 514.6 ft
Upon Completion 515.6 ft
After Hrs. N/A

Brown, CLAY w/ sand and few pebbles.

524.45
Very stiff, damp, brown, CLAY w/ sand and few pebbles.

521.95
Very soft, very damp, brown w/ gray layers, SANDY LOAM.

516.45
Very soft, wet, gray, SILTY LOAM.

514.45
Very loose, very wet, dark gray, fine, SAND. 20% passing #200 sieve.

33% passing #200 sieve.

509.95
509.95
50/1" 50/1" 50/0.3"

Very dense, very moist, gray, SANDSTONE.
Borehole continued with rock coring.

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 T209)
BBS, from 137 (Rev. 8-99)

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ROCK CORE LOG Page 2 of 3
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ROUTE FAP 774 (IL 33) DESCRIPTION Little Wabash River Overflow LOGGED BY E. Sandschaefer

SECTION 107WRS-1 LOCATION NW 1/4, SEC. 18, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham CORING METHOD Rotary, Surface set diamond bit

STRUCT. NO. 025-0077 CORING BARREL TYPE & SIZE NW, conv dtd bbl, split inner
Station 1018+84.5

BORING NO. 1 of 1 (Pier #1)
Station 1018+95
Offset 36.00 ft
Ground Surface Elev. 528.45 ft

| DEPTH (ft) | DEPTH (ft) | DEPTH (ft) | DEPTH (ft) | DEPTH (ft) | DEPTH (ft) |
|------------|------------|------------|------------|------------|------------|
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| 18 | 18 | 18 | 18 | 18 | 18 |
| 20 | 20 | 20 | 20 | 20 | 20 |
| 22 | 22 | 22 | 22 | 22 | 22 |
| 24 | 24 | 24 | 24 | 24 | 24 |
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| 30 | 30 | 30 | 30 | 30 | 30 |
| 32 | 32 | 32 | 32 | 32 | 32 |
| 34 | 34 | 34 | 34 | 34 | 34 |
| 36 | 36 | 36 | 36 | 36 | 36 |
| 38 | 38 | 38 | 38 | 38 | 38 |
| 40 | 40 | 40 | 40 | 40 | 40 |
| 42 | 42 | 42 | 42 | 42 | 42 |
| 44 | 44 | 44 | 44 | 44 | 44 |
| 46 | 46 | 46 | 46 | 46 | 46 |
| 48 | 48 | 48 | 48 | 48 | 48 |
| 50 | 50 | 50 | 50 | 50 | 50 |
| 52 | 52 | 52 | 52 | 52 | 52 |
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| 70 | 70 | 70 | 70 | 70 | 70 |
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| 76 | 76 | 76 | 76 | 76 | 76 |
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| 88 | 88 | 88 | 88 | 88 | 88 |
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| 96 | 96 | 96 | 96 | 96 | 96 |
| 98 | 98 | 98 | 98 | 98 | 98 |
| 100 | 100 | 100 | 100 | 100 | 100 |

Gray w/ thin black layers, SANDSTONE.

507.55
Weathered, gray, SANDY CLAY SHALE.

502.95
Gray, SANDSTONE.

500.65
Gray w/ thin black layers, SANDY CLAY SHALE.

499.75
Gray, SANDSTONE.

495.25
Gray w/ thin black layers, SANDY CLAY SHALE.

491.05
Gray w/ thin black layers, SANDSTONE.

490.45
Gray w/ thin black layers, SANDY CLAY SHALE.

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

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ROCK CORE LOG Page 3 of 3
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BORING NO. 1 of 1 (Pier #1)
Station 1018+95
Offset 36.00 ft
Ground Surface Elev. 528.45 ft

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| 76 | 76 | 76 | 76 | 76 | 76 |
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| 80 | 80 | 80 | 80 | 80 | 80 |
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| 94 | 94 | 94 | 94 | 94 | 94 |
| 96 | 96 | 96 | 96 | 96 | 96 |
| 98 | 98 | 98 | 98 | 98 | 98 |
| 100 | 100 | 100 | 100 | 100 | 100 |

Gray w/ thin black layers, SANDY CLAY SHALE. (continued)

454.55
Extent of exploration.

Benchmark = 543.76' Chiseled square, East abut, SW wingwall of structure number 025-0077
Provided by Program Development, design survey.

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

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|--|----------------------------------|---------------------------------|
| SHEET TITLE BORING LOGS | | PROJECT NO. 02017 |
| PROJECT IL RTE. 32/33 OVER LITTLE WABASH RIVER OVERFLOW F.A.P. RTE. 774 SECTION 107BY-1 EFFINGHAM COUNTY STATION 1018+86.92 STRUCTURE NO. 025-0077 | SCALE DATE DRAWN BY CFC | CHECKED BY KPS/CME/MCB |
| COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703 | | DRAWING NO. 25 OF 26 SHTS |