

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Ill. Dept. of Trans. 0-7

SOIL BORING LOG Page 1 of 3 Date 7/21/05

ROUTE FAP 776 (IL 142) DESCRIPTION Un-Named Stream LOGGED BY E. Sandschafer
(116BR-1, BR-2, BR-3)B-1 LOCATION SE 1/4, SEC. 31, TWP. 6 S, RNG. 7 E, 3 PM

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

STRUCT. NO. 033-0022
Station 545+50

BORING NO. 3
Station 545+70
Offset 24.20ft LL
Ground Surface Elev. 362.32 ft

DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	SP. (ft)	TSF (%)	UCS (tsf)	DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	SP. (ft)	TSF (%)	UCS (tsf)
0	Surface Water Elev. 358.29 ft					0	Surface Water Elev. 358.29 ft				
0	Stream Bed Elev. 358.29 ft					0	Stream Bed Elev. 358.29 ft				
0	Groundwater Elev.: 335.3 ft					0	Groundwater Elev.: 335.3 ft				
0	First Encounter Upon Completion After Hrs. Washed samples ft					0	First Encounter Upon Completion After Hrs. Washed samples ft				
0	Brown, SILTY CLAY w/ gravel.					0	Medium to soft, damp, gray, SILTY LOAM. (continued)				
2	381.32					1					
4	Stiff, damp, brown/gray/red, CLAY.					2					
4						4					
4						4					
2						0					
4						2					
4						4					
2						0					
3						1					
4						4					
4						4					
2						0					
4						2					
4						4					
2						0					
3						1					
4						4					
4						4					
0						0					
0						2					
2						3					
0						0					
1						2					
1						3					
0						0					
1						2					
2						0					
0						0					

Soft to medium strength.

Medium to soft, damp, gray, SILTY LOAM.

347.82

327.82

322.82

Latitude N 27 deg 07.001 min, Longitude W 88 deg 28.132 min, Map Datum NAD 83

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 T208)
BBS, from 137 (Rev. 8-99)

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SOIL BORING LOG Page 2 of 3 Date 7/21/05

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(116BR-1, BR-2, BR-3)B-1 LOCATION SE 1/4, SEC. 31, TWP. 6 S, RNG. 7 E, 3 PM

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

STRUCT. NO. 033-0022
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BORING NO. 3
Station 545+70
Offset 24.20ft LL
Ground Surface Elev. 362.32 ft

DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	SP. (ft)	TSF (%)	UCS (tsf)	DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	SP. (ft)	TSF (%)	UCS (tsf)
0	Surface Water Elev. 358.29 ft					0	Surface Water Elev. 358.29 ft				
0	Stream Bed Elev. 358.29 ft					0	Stream Bed Elev. 358.29 ft				
0	Groundwater Elev.: 335.3 ft					0	Groundwater Elev.: 335.3 ft				
0	First Encounter Upon Completion After Hrs. Washed samples ft					0	First Encounter Upon Completion After Hrs. Washed samples ft				
0	Very loose, wet, gray, fine grained, SAND. 24% passing #200 sieve. (continued)					0	Very loose, wet, gray, fine grained, SAND. 24% passing #200 sieve. (continued)				
1						1					
0						0					
0						0					
2						2					
4						4					
4						4					
2						0					
4						2					
4						4					
2						0					
3						1					
4						4					
4						4					
2						0					
3						1					
4						4					
4						4					
0						0					
0						2					
2						3					
0						0					
1						2					
1						0					
2						0					
0						0					

Very stiff, damp, gray, CLAY TILL.

Hard, moist, gray, CLAY SHALE.

Very hard drilling at 48.5'

Borehole continued with rock coring.

317.82

316.62

312.32

Latitude N 27 deg 07.001 min, Longitude W 88 deg 28.132 min, Map Datum NAD 83

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 T208)
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ROCK CORE LOG Page 3 of 3 Date 7/21/05

ROUTE FAP 776 (IL 142) DESCRIPTION Un-Named Stream LOGGED BY E. Sandschafer
(116BR-1, BR-2, BR-3)B-1 LOCATION SE 1/4, SEC. 31, TWP. 6 S, RNG. 7 E, 3 PM

COUNTY Hamilton CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 033-0022
Station 545+50

BORING NO. 3
Station 545+70
Offset 24.20ft LL
Ground Surface Elev. 362.32 ft

DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	SP. (ft)	TSF (%)	UCS (tsf)	DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	SP. (ft)	TSF (%)	UCS (tsf)
0	Surface Water Elev. 358.29 ft					0	Surface Water Elev. 358.29 ft				
0	Stream Bed Elev. 358.29 ft					0	Stream Bed Elev. 358.29 ft				
0	Groundwater Elev.: 335.3 ft					0	Groundwater Elev.: 335.3 ft				
0	First Encounter Upon Completion After Hrs. Washed samples ft					0	First Encounter Upon Completion After Hrs. Washed samples ft				
0	Gray, moderately weathered, soapy, CLAY SHALE.					0	Gray, moderately weathered, soapy, CLAY SHALE.				
2	312.32					1					
4						2					
4						4					
2						0					
4						2					
4						4					
2						0					
3						1					
4						4					
4						4					
0						0					
0						2					
2						3					
0						0					
1						2					
1						0					
2						0					
0						0					

Gray, slightly weathered, soapy, CLAY SHALE.

Extent of exploration.

Benchmark: BM 512 chiseled square on top of NE hubguard of existing bridge Station 543+60, Lt 17' = 371.36', provided by Program Development.
Note: Two sets of conflicting stationing present, borings referenced off nails on centerline.
B1 - 75' N of center of existing bridge.
B2 - 39' N of center of existing bridge.
B3 - 20' S of center of existing bridge.
B4 - 76' S of center of existing bridge.

307.32

302.32

Latitude N 27 deg 07.001 min, Longitude W 88 deg 28.132 min, Map Datum NAD 83

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BBS, from 138 (Rev. 8-99)

BORING 3

<p>HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS</p> <p>3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400</p> <p>ELGIN • SPRINGFIELD</p>		<p>BORING 3</p> <p>IL RTE. 142 OVER CONTRARY CREEK (SOUTH OVERFLOW)</p> <p>F.A.P. ROUTE 776 - SECTION (116BR-3)B-1</p> <p>HAMILTON COUNTY</p> <p>STRUCTURE NO. 033-0052 / STATION 544+53.10</p>		
PROJECT NUMBER: 12-41-0021-1	DATE: 10/25/07	DESIGNED: R.J.P.	CHECKED: S.W.M.	DRAWN: D.A.B.

PLOT DATE: 10/26/2007 FILE NAME: 0330052-78006-41021br-tdge0052.dgn