STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 776	(116BR-2)B-1	HAMILTON	140	65
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 21
21 SHEETS

Contract #78006

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

SOIL BORING LOG

Page 1 of 2

Date 8/8/05

ROUTE FAP 776 (IL 142) DESCRIPTION Un-Named Stream LOGGED BY E. Sandschafer
SECTION B-1 (116BR-1, BR-2, BR-3) 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. 033-0021
Station 539+74
BORING NO. 4
Station 540+47
Offset 9.70ft Rt
Ground Surface Elev. 370.73 ft

Surface Water Elev. 395.02 ft
Stream Bed Elev. 395.02 ft
Groundwater Elev.:
First Encounter 330.7 ft
Upon Completion 354.7 ft
After Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt pavement.			
389.23			
Gray, CLAY w/ fine gravel. 368.73			
Medium to soft, damp, gray, SILTY CLAY.	0		
	2	0.7	31
	3	B	
	1		
-5	1	0.5	34
	3	B	
	1		
	2	0.7	30
	3	B	
360.73 -10	1		
Stiff, damp, gray/red, CLAY.	3	1.2	26
	4	BS	
	1		
	4	1.4	22
	4	B	
-15	1		
	4	1.9	22
	4	B	
	2		
	4	1.2	30
	4	B	
351.23 -20	0		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Soft, very damp, brown, SILTY LOAM. *(continued)* 349.93	2	0.3	29
	3	B	
Stiff, very moist, red, SILTY CLAY. 348.73			
Very soft to stiff, damp, gray, SILTY LOAM.	0		
	1	0.5	25
	2	B	
-25	0		
	2	0.6	22
	2	B	
	2		
	2	1.2	20
	4	B	
-30	0		
With red, Sand.	4	0.4	22
	3	S	
-35	0		
	0	0.4	34
	1	B	
330.73 -40	0		

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)

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SOIL BORING LOG

Page 2 of 2

Date 8/8/05

ROUTE FAP 776 (IL 142) DESCRIPTION Un-Named Stream LOGGED BY E. Sandschafer
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BORING NO. 4
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Ground Surface Elev. 370.73 ft

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First Encounter 330.7 ft
Upon Completion 354.7 ft
After Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very soft, damp, gray, SILTY LOAM.	1	0.2	35
	1	B	
326.23			
Stiff, damp, gray, CLAY TILL. -45	2		
	5	1.3	14
	5	B	
Medium to very dense, damp, gray, SANDY LOAM TILL. *(continued)*			
-65			
305.23			
Brown, SANDY LOAM. 304.63	7		
Very dense, moist, gray, CLAY SHALE 304.03	50		7
	50/3"		
Extent of exploration.			
Benchmark: BM 513 Chiseled square on top of NE corner of hubguard of existing bridge Sta 538+50, Lt 17' = 371.40', 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 - 4' S of center of existing bridge.* *B3 - 38' S of center of existing bridge.* *B4 - 73' S of center of existing bridge.*			
321.23			
Medium to very dense, damp, gray, SANDY LOAM TILL. -50	1		
	5	0.9	12
	7	B	
-55			
-60 16			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	45		17
	50		
-65			
	7		
	50		7
	50/3"		
-70			
-75			
-80			

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)

BORING 4

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-41-0021-1	DATE: 09/25/07
DESIGNED: S.M.S.	CHECKED: S.W.M.
	DRAWN: D.B.

BORING LOG 4
IL RTE. 142 OVER CONTRARY CREEK (NORTH OVERFLOW)
F.A.P. ROUTE 776 - SECTION (116BR-2)B-1
HAMILTON COUNTY
STRUCTURE NO. 033-0051 / STATION 539+14.20

PLOT DATE :10/26/2007 FILE NAME = 0330051-78006-4102lb-ridge0051.dgn