Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 3

Date 5/26/10

ROUTE FAS 770 DESCRIPTION IL 157 over Sugar Creek LOGGED BY SLW & FA

SECTION 64-1BR LOCATION NE 1/4, SEC. 1, TWP. 4N, RNG. 8W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 060-0072 (E) / 060-0204 (P)
Station

BORING NO. #1 W. Abut
Station 56 + 30
Offset 15.00ft Right
Ground Surface Elev. 469.2 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 455.2 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Brown Silty Clay LOAM				Dark Gray/Brown LOAM A-4(4) See Classification @ 20 ft (continued)	WH	0.16	23
					WH	S20	
	2						
	3	—	22	446.2			
	4			Gray Sandy LOAM A-2-4(0) See Classification @ 25 ft			
-5	3			-25	1		
	3	0.39	24		1	0.49	24
	5	S5			1	B20	
462.2							
	1						
Dark Brown Silty Clay LOAM with some Sand	2	0.17	23				
	2	B15					
460.2							
Brown Silt LOAM	6				1		
-10				-30			
	9	0.69	23	Lost Sample	1	NS	
	8	S15			2		
436.2							
455.2 ▼				Brown Medium to Fine SAND See Gradation @ 34.5 ft			
Dark Gray Silty Clay LOAM	2			434.2 -35	2	NC	22
-15							
	2	0.65	27		3		
	3	S20		Brown Silty CLAY	4	0.98	26
						S20	
451.2							
Dark Gray/Brown LOAM A-4(4) See Classification @ 20 ft							
-20	WH			-40	WH		

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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Brown Silty CLAY (continued)	WH	0.33	25	Gray/Brown Silty Clay LOAM with some small Shells (continued)	7	1.30	20
Gray	4	S20			10	S20	
-45	WH			-65	6		
Some Fine Gravel	4	0.33	24		9	1.79	21
	4	S20			12	S20	
421.2							
Gray/Brown Silty Clay LOAM with some small Shells							
-50	4			-70	3		
	4	1.10	44		5	0.98	24
	5	S10			6	S20	
				394.7			
-55	4			-75	6		
	8	1.50	23	Gray Clay TILL	7	2.52	15
End 5/26/10	13	S20			8	S15	
Start 5/27/10							
				391.2			
				Black Weathered SHALE			
-60	5			-80	75/2"		

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DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Black Weathered SHALE (continued)	-	NC	33
388.2	-		
END OF BORING			
-85			
-90			
-95			
-100			

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)

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DESIGNED -	EXAMINED	DATE - MARCH 20, 2012	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED -	ENGINEER OF BRIDGE DESIGN		
DRAWN -	PASSED	REVISED	
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED	

SOIL BORING LOGS
STRUCTURE NO. 060-0204

SHEET NO. 23 OF 26 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	64-1BR	MADISON	137	97

CONTRACT NO. 76401

ILLINOIS FED. AID PROJECT