Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 6/1/09

ROUTE FAP 322 (US 51) DESCRIPTION US 51 over I-72 at South city limits of Forsyth LOGGED BY E. Sandschafer

SECTION (58-64BH-1)B-1 LOCATION Sec 26 - NW 1/4, Sec 27 NE 1/4, SEC., TWP. 17 N, RNG. 2 E, 3 PM

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

STRUCT. NO. 058-0079
Station 1154+77.27

BORING NO. 1 SE
Station 1153+25
Offset 54.00ft Rt
Ground Surface Elev. 668.88 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 579.4 ft
Upon Completion 569.9 ft
After 96 Hrs. 641.9 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12" asphalt pavement. 4" crushed limestone subbase.	667.58				
Brown, CLAY.	666.88				
Medium to very stiff, damp, gray, CLAY LOAM TILL.			1		
			3	0.8	13
			3	B	
		-5	3		
			6	2.2	18
			7	B	
			2		
			4	3.5	9
			7	B	
		-10	5		
			6	5.5	10
			7	B	
	656.38		3		
Very stiff, damp, gray, CLAY TILL.			6	3.1	18
			9	B	
		-15	5		
			4	8.6	9
			7	B	
	651.38		5		
Very stiff, damp, brown, CLAY LOAM TILL.			7	2.8	17
			8	B	
	648.88	-20	3		
Very stiff to hard, damp, brown to gray, CLAY LOAM TILL.			5	2.1	12
			8	B	
		-25	2		
			5	7.2	11
			7	B	
			4		
			7	6.5	11
			12	B	
		-30	5		
			8	4.8	13
			13	B	
	634.38				
Medium to stiff, damp, gray, CLAY w/ trace Silt.		-35	0		
			2	1.0	20
			4	B	
	629.38	-40	1		

Latitude W 88 deg 57.306 min. Longitude N 39 deg 54.472 min. Map Datum WGS 84

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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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Stiff to very stiff, damp, gray, CLAY LOAM TILL. *(continued)*			3	1.4	14
			5	B	
		-45	4		
			5	2.2	12
			8	B	
		-50	2		
			4	1.3	12
			6	B	
		-55			
	609.38				
Very stiff, damp, gray, CLAY TILL.		-60	3		
Very stiff, damp, gray, CLAY TILL. *(continued)*			6	3.1	19
			9	B	
		-65			
	599.38				
Hard, damp, brown to gray, CLAY LOAM TILL.		-70	7		
			11	4.8	11
			19	B	
		-75			
		-80	6		

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard, damp, brown to gray, CLAY LOAM TILL. *(continued)*			9	3.8	10
			20	B	
		-85			
		-90	11		
			19	6.6	11
			28	B	
		-95			
		-100	50/4"		
Hard, damp, brown to gray, CLAY LOAM TILL. *(continued)*			50/2"	5.7	6
			50/2"	S	
		-105			
		-110	36		
			50	5.1	7
			50/5"	S	
	557.98				
Extent of exploration.					
Benchmark: BM 100 Chiseled square on NE corner of E end of crash wall of pier at structure 058-0079 = 648.98' elevation. Provided by Program Development.		-115			
		-120			

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BORING LOGS
STRUCTURE NO. 058-0136

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

PROJECT NO. 08052-6
SCALE
DATE 12/22/09
DESIGN BY
DRAWN BY CFC
CHECKED BY MCB

SHEET NO. 32
36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(58-64HB-1)B-1	MACON	149	91
		CONTRACT NO. 74387		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

USER NAME = jheger