Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 3

Date 6/2/09

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. 2 SW
Station 1153+97
Offset 66.00ft Lt
Ground Surface Elev. 647.53 ft

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

Groundwater Elev.:
First Encounter 620.0 ft
Upon Completion Washed ft
After 48 Hrs. 640.6 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12" asphalt pavement. 4" crushed limestone subbase.	646.23				
Stiff, damp, gray, CLAY.			2		
			3	1.2	19
			7	B	
	643.03				
Very stiff to hard, damp, gray to brown, CLAY TILL to CLAY LOAM TILL.		-5	2		
			8	2.8	18
			17	B	
			6		
			10	5.8	10
			14	B	
		-10	2		
			6	6.4	10
			12	B	
	635.53				
Medium to very stiff, damp, dark gray/red, CLAY.			4		
			6	3.0	21
			10	B	
		-15	1		
			2	1.0	20
			2	B	
	630.53				
Very soft, wet, gray, SANDY LOAM w/ small gravel.			0		
			1	0.1	19
			2	B	
	628.03	-20	2		
Medium to stiff, damp, gray, CLAY LOAM TILL. *(continued)*			4	1.9	12
			6	B	
			1		
			2	1.4	14
			4	B	
		-25	1		
			2	0.8	16
			3	B	
			1		
			1	1.0	15
			3	B	
	617.53	-30	5		
Medium, wet, gray, fine grained, SAND. *5% passing #200 sieve.*			7		14
			15		
	613.03	-35	2		
Very stiff, damp, gray, CLAY LOAM.			4	2.3	20
			5	B	
	608.03	-40	2		

Latitude W 88 deg 57.336 min, Longitude N 39 deg 54.482 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 (%)
Very stiff, damp, gray mottled red, CLAY LOAM TILL. *(continued)*			5	3.2	20
			8	B	
		-45	3		
			7	3.8	13
			13	B	
		-50	6		
			7	2.6	12
			10	B	
		-55			
		-60	7		
Very stiff, damp, gray mottled red, CLAY LOAM TILL. *(continued)*	587.03		26	6.7	10
			40	B	
Gray, fine grained, SAND. *6% passing #200 sieve.*	586.63				
Gray, SANDY CLAY TILL.		-65			
	578.03				
Hard, damp, gray, CLAY LOAM TILL.		-70	20		
			29	+9.2	10
			49	B	
		-75			
		-80	50/5"		

Latitude W 88 deg 57.336 min, Longitude N 39 deg 54.482 min, Map Datum WGS 84

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Extent of exploration.	567.23		50/3"	9.7	9
			50/2"	B	
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.		-85			
		-90			
		-95			
		-100			

Latitude W 88 deg 57.336 min, Longitude N 39 deg 54.482 min, Map Datum WGS 84

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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. 33
36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(58-64HB-1)B-1	MACON	149	92
		CONTRACT NO. 74387		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

USER NAME = jhoger