Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 2606

ROUTE FAP 828 (IL 121) DESCRIPTION Box Culvert LOGGED BY E. Sandschafer

SECTION (108,109,110)RS-3 LOCATION Sec 25 – SW 14, Sec 26 – SE 14, SEC., TWP. 10 N, RNG. 7 E, 3 PM

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

STRUCT. NO. 018-8605
Station

BORING NO. 2 (North)
Station 306+21
Offset 12.00ft Rt
Ground Surface Elev. 608.21 ft

Surface Water Elev. Dry ft
Stream Bed Elev. 589.70 ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion N/A ft
After 72 Hrs. 565.7 ft

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
13.5" Asphalt pavement.	607.11				
6" aggregate base.	606.61				
Soft, very damp, red mottled gray, SILTY CLAY w/some fine gravel.					
		-5	1		
			2	0.4	16
			3	PP	
			1		
			3	0.4	20
			4	PP	
		-10	1		
			2	0.4	23
			3	B	
	596.21				
Medium, damp, dark gray, SANDY LOAM w/many wood chunks, highly organic.			1		
			2	0.6	28
			3	B	
		-15	2		
	592.71		3	0.6	13
Very soft, gray, wet, SILTY LOAM.			7	B	
	591.21				
Hard, very moist, brown marbled gray, CLAY TILL.			3		
			5	2.8	16
			7	B	
	588.21	-20	5		

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Hard to very stiff, very moist, gray, CLAY TILL.			12	5.1	13
			14	B	
			10		
			15	6.2	13
			22	B	
		-25	1		
			16	7.9	11
			22	S	
			7		
			11	5.0	10
			18	B	
		-30	8		
			15	3.7	10
			25	B	
		-35	4		
			6	2.1	18
			9	B	
	568.21	-40	4		

Latitude N 39 deg 16.616 min, Longitude W 88 deg 22.700 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, form 137 (Rev. 8-99)

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Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Very stiff, damp, gray, CLAY TILL.			9	2.8	14
			13	B	
		-45	3		
			6	1.7	17
			8	B	
		-50	3		
			7	2.3	15
			9	B	
		-55			
		-60	3		
	548.21				

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Very stiff, damp, gray, CLAY TILL.			7	2.9	15
			11	B	
* Blow Counts: 50 /1⅛" 50 /1⅛" 50 /1/16"		-65			
	540.71				
Very dense, moist, gray, highly cemented, SANDSTONE.					
	538.70				
Extent of exploration.		-70	*		
Benchmark: BM 350A RR spike in PP, 70' South of existing box culvert, 41' East of centerline of IL 121 = 597.31' elevation.		-75			
		-80			

Latitude N 39 deg 16.616 min, Longitude W 88 deg 22.700 min, Map Datum WGS 84

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BBS, form 137 (Rev. 8-99)

DESIGNED - DAVID L. GREIFZU	EXAMINED Thomas J. Domagalski	DATE - August 1, 2011	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - MICHAEL D. ROLAPE	ENGINEER OF BRIDGE DESIGN		
DRAWN - MICHAEL B. MOSSMAN	PASSED		
CHECKED - D.L.G. / M.D.R.	ENGINEER OF BRIDGES AND STRUCTURES		

SOIL BORING LOGS
STRUCTURE NO. 018-8650
SHEET NO. 7 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
773	(108,109,110)RS-3	CUMBERLAND	56	38
		CONTRACT NO. 74252		
		ILLINOIS FED. AID PROJECT		