

**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation

### SOIL BORING LOG

Page 1 of 2  
Date 2/6/06

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 305+84

BORING NO. 1 (South)  
Station 305+84  
Offset 14.00ft Lt  
Ground Surface Elev. 606.46 ft

DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	SP. W. (ft)	SP. S. (%)	DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	SP. W. (ft)	SP. S. (%)
0	Crushed stone shoulder.		605.96		24	Very stiff, very moist, brown, SANDY CLAY TILL.		5.7	13
0	Medium to very stiff, damp, tan, CLAY w/trace fine gravel.				22			B	
1					9	Very stiff, very moist, gray, CLAY TILL.		3.8	14
5					13			B	
9					17			B	
3					6				
6					9			2.8	14
8					12			B	
0	Stiff, damp, tan, SILTY CLAY.		599.46		4			3.0	13
4					8			B	
5					13			B	
0	Medium, damp, gray, CLAY w/trace sand & fine gravel.		596.46		5				
5					9			3.5	13
9					14			B	
1	Medium, damp, gray, SILTY CLAY w/trace organics & some sand.		594.46						
5									
6									
1	Soft, damp, dark gray, SANDY LOAM w/trace organics.		591.96		5				
2					9			3.0	14
2					13			B	
3	Medium, damp, red mottled gray, CLAY w/trace fine gravel.		589.46						
4									
5									
11			586.46		5				

Surface Water Elev. Dry ft  
Stream Bed Elev. 589.70 ft  
Groundwater Elev.:  
First Encounter 589.5 ft  
Upon Completion N/A ft  
After 72 Hrs. 592.0 ft

Latitude N 39 deg 16.806 min, Longitude W 88 deg 22.893 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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22	Soft to medium, damp, gray, SANDY LOAM.		545.66		26	Black, COAL.		1.9	13
26					504"			B	
						Extent of exploration.			
						Benchmark: BM 350A RR spike in PP, 70' South of existing box culvert, 41' East of centerline of IL 121 = 597.31' elevation.			
3	Stiff, damp, gray, CLAY w/Silt and gravel.		561.96		7			1.9	21
7					9			B	
3	Very stiff, damp, gray, CLAY TILL.		556.96		6			1.7	19
6					8			B	
6			546.46						

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