

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
District 7 Materials

SOIL BORING LOG

Page 1 of 2 Date 4/27/04

ROUTE N. 4th Street Road DESCRIPTION 4th Street Bridge over I-57/70 LOGGED BY E. Sandschafer

SECTION (25-4HB-1B) LOCATION 16 - NW 14, 17 - NE 14, SEC., TWP. 9 N. RNG. 6 E. 3 PM

COUNTY Effingham DRILLING METHOD Hollow Stem Auger & Split Spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-0049
Station 49+98.84

BORING NO. 2
Station 49+84
Offset 5.00ft Rt
Ground Surface Elev. 621.45 ft

DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	STRENGTH (psi)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	UNSATURATED SWELL (%)	FIELD NOTES
0	Asphalt roadway surface.		2	1.7	27			
0.5	Aggregate subbase - CA06		15	B				
1.0	Crushed aggregate layer. Estimated original roadway.							
1.5	Stiff, damp, gray, CLAY w/some silt. (Fill)		1	1.2	25			
2.0			3	1.2	23			
2.5			4	PP				
3.0	Medium, damp, gray, SILTY CLAY LOAM w/few pebbles. (Fill)		3	0.9	22			
3.5			4	S				
4.0	Very stiff to stiff, damp, brown mottled gray, CLAY TILL. (Fill)		0					
4.5			5	3.3	18			
5.0			6	B				
5.5			2					
6.0			5	1.8	22			
6.5			5	B				
7.0	Stiff, damp, brown mottled gray, CLAY. (Fill)		2					
7.5			4	1.5	26			
8.0			5	B				
8.5			2					
9.0			3	1.5	21			
9.5			4	B				
10.0			1					
10.5			3	1.2	25			
11.0			6	B				
11.5			1					

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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11.5	Hard to very dense, very moist, gray, CLAY TILL.		40	5.0	8			
12.0	Sample re-assembled to test for Qu.		506*	S				
12.5								
13.0			13					
13.5	Sample re-assembled to test for Qu.		26	+9.2	8			
14.0			43	DNF				
14.5								
15.0								
15.5								
16.0								
16.5	Sample pockeripped, unable to test for Qu.		50		8			
17.0								
17.5								
18.0								
18.5								
19.0								
19.5								
20.0								

Field note: Extremely hard drilling. 2 of 4 teeth broken on lead auger, remaining 2 teeth were bent. Drill rig engine and clutch overheating.

Benchmark: Traverse Point #200
Pin w/IDOT Cap Sta 46+90.8
19.1' LT CL 4th st. Elev 617.85'

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BORING DATA
F.A.I. RT. 70 SEC. (25-4HB-1B)
EFFINGHAM COUNTY
STATION 49+98.84
STRUCTURE No. 025-0102