Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 10/28/13

ROUTE FAI 70 (I-70) DESCRIPTION Overhead Sign Truss - I-70 WB LOGGED BY E. Sandschafer

SECTION D7 ITS 2014 LOCATION NE, SEC. 31, TWP. 9 N, RNG. 8 E, 3 PM

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

STRUCT. NO. 7S018I070L107.6
Station

BORING NO. 1 (Median)
Station 98+64
Offset 3.0ft Lt
Ground Surface Elev. 95.63 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After 192 Hrs. 89.6 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
4" topsoil.	95.33				
Stiff to medium, damp, gray marbled brown, CLAY.			3		
			4	1.5	19
			4	PP	
		-5	2		
			3	1.40	19
			3	B	
			3		
			2	0.82	22
			3	B	
		-10	2		
	85.33		2	0.33	18
Soft, very damp, brown, SANDY LOAM.			3	B	
	83.63				
Very dense, very moist, brown, SANDSTONE.			50/5"		
			50/2"		20
			50/2"		
		-15	50/5"		
			50/2"		19
			50/1"		
	78.63				
Very dense, very moist, brown, SANDY CLAY SHALE.	77.83		41		
			50/3"		16
Extent of exploration.			50/1"		
		-20			

Benchmark: Centerline of WB I-70 Sta 98+64 = assumed elevation 100.00'.

I-70 WB Mile Marker 107.60

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
-25			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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)

File Name S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\CUMBERLAND CO (018)\018-0000 SOIL 2013 OH SIGN TRUSS.GPJ Data Template D6TEMPLT.GDT Date Printed 11/18/13
Latitude W 88 deg 20 min 34.836 sec Longitude N 39 deg 11 min 04.989 sec Datum Job Number

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ROUTE FAI 70 (I-70) DESCRIPTION Overhead Sign Truss - I-70 WB LOGGED BY E. Sandschafer

SECTION D7 ITS 2014 LOCATION NE, SEC. 31, TWP. 9 N, RNG. 8 E, 3 PM

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

STRUCT. NO. 7S018I070L107.6
Station

BORING NO. 2 (N Shldr)
Station 98+64
Offset 85.0ft Lt
Ground Surface Elev. 99.62 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After 192 Hrs. 85.6 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
16" asphalt shoulder on crushed aggregate base.					
	97.62		4		
Very stiff, damp, brown/gray, CLAY.			7	2.47	17
			11	B	
		-5	5		
With trace Silt.			6	3.50	22
			7	B	
	92.62		3		
Medium, damp, brown marbled gray, SILTY CLAY.			3	0.99	21
			3	B	
		-10	2		
			3	0.99	21
			8	B	
			2		
			2	0.62	20
			2	B	
	85.12				
Very soft, very damp, gray, SILT.		-15	1		
	84.02		14	0.16	30
Very dense, moist, brown, SANDSTONE.			50/3"	B	
			50/4"		13
			50/1"		
			50/1"		
	79.72	-20	50/3"		

Extent of exploration.

Benchmark: Centerline of WB I-70 Sta 98+64 = assumed elevation 100.00'.

I-70 WB Mile Marker 107.60

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
	50/1"		
	50/1"		
-25			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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Latitude W 88 deg 20 min 35.503 sec Longitude N 39 deg 11 min 05.771 sec Datum Job Number