

# SOIL BORINGS

## SN 65084I072L104.2



### SOIL BORING LOG

ROUTE I-72 DESCRIPTION Overhead Sign Truss LOGGED BY M. Tappan  
 SECTION D 6 OVD SIN STR REPL 12-23 LOCATION SW 1/4, SEC. 29, TWP. 16N, RNG. 4W, 3 PM  
 COUNTY Sangamon DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 65084I072L104.2  
 Station +/- 65+00  
 BORING NO. 1 Median  
 Station 65+24  
 Offset 7.0ft Left  
 Ground Surface Elev. 541.4 ft (ft) / 6" (tsf) (%)

Surface Water Elev. N/A ft  
 Stream Bed Elev. N/A ft  
 Groundwater Elev.:  
 First Encounter          ft  
 Upon Completion Cored ft  
 After 284 Hrs. 539.4 ft

Description	DEPTH (ft)	BLOW /6"	UCS (tsf)	MOIST (%)
Light Blue Gray Dry Fissile Clayey SHALE	8	18		8
	31			
	9			8
	100			
	16"			
	-5			
Interbedded with Gray Dry Calcareous SHALE	12			9
	100			
	16"			
Borehole continued with rock coring.	533.40			
	-10			
	-15			
	-20			

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)



### ROCK CORE LOG

ROUTE I-72 DESCRIPTION Overhead Sign Truss LOGGED BY M. Tappan  
 SECTION D 6 OVD SIN STR REPL 12-23 LOCATION SW 1/4, SEC. 29, TWP. 16N, RNG. 4W, 3 PM  
 COUNTY Sangamon CORING METHOD Water

STRUCT. NO. 65084I072L104.2  
 Station +/- 65+00  
 BORING NO. 1 Median  
 Station 65+24  
 Offset 7.0ft Left  
 Ground Surface Elev. 541.4 ft

CORING BARREL TYPE & SIZE NXBWL  
 Core Diameter 1.875 in  
 Top of Rock Elev. 0.00 ft  
 Begin Core Elev. 533.40 ft

Description	DEPTH (ft)	CORER (%)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Gray Moist Poorly Indurated Clayey SHALE <2" Open Joints 8.0 - 10.0	533.40	1	93	81		
2" - 12" Open Joints 10.0 - 12.5	-10					
Dark Gray Well Indurated Calcareous SHALE with 2" - 12" Open Joints	528.90					22.8
Gray Well Indurated Sandy Calcareous SHALE with Dark Banded Seams 2" - 12" Open Jointing	528.40 -19					55.6
Boring Completed	523.60					200.4
	-20					
	-25					

Color pictures of the cores Yes, On File  
 Cores will be stored for examination until 5 Years after Construction  
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
 RQD is the ratio of the total length of sound core specimens >4" to total length of core run BBS, form 138 (Rev. 8-99)

FILE NAME: S:\Sign Truss Plan Details\46196\46196S	USER NAME: capenbergerda	DESIGNED: _____	REVISED: _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SOIL BORING LOGS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN: _____	REVISED: _____			V&B	D-6_OVD SIN STR REPL 12-23	SANGAMON	33	32	
		CHECKED: _____	REVISED: _____			CONTRACT NO. 46196					
		DATE: Nov-04-2011 02:03:08PM	REVISED: _____			ILLINOIS FED. AID PROJECT					