



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

# SOIL BORING LOG

Page 1 of 1

Date 3/31/05

ROUTE FAP 595 DESCRIPTION P92-082-01 Bridge over John Deere Road at proposed 41st St. Connector LOGGED BY W. Garza

SECTION 142-R LOCATION S. Moline Twp. - 10 SW, SEC. , TWP. 17N, RNG. 1W

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. \_\_\_\_\_  
Station 525+38.10

BORING NO. B-1c  
Station 526+70  
Offset 2.00ft Lt CL  
Ground Surface Elev. 568.2 ft

DEPT H (ft) BLOW S (ft) UCS (tsf) MOIST (%)

Surface Water Elev. \_\_\_\_\_ ft  
Stream Bed Elev. \_\_\_\_\_ ft

Groundwater Elev.:  
First Encounter 561.2 ft ▼  
Upon Completion 556.2 ft ▼  
After \_\_\_\_\_ Hrs. \_\_\_\_\_ ft

VERY SOFT brown SANDY LOAM			0.2	22	
	566.20	1	P		
VERY SOFT light gray SANDY LOAM		1	0.2	30	
	564.70	3	P		
MEDIUM light gray SILTY LOAM		1	0.9	34	
	562.20	3	B		
SOFT gray SILTY LOAM with 8% ORGANICS		1	0.4	47	
	559.70	2	B		
MEDIUM gray SILTY LOAM with 10% ORGANICS		1	0.6	48	
	556.70	2	B		
LOOSE gray clean medium coarse SAND		1			
	554.20	2			
		6			
VERY DENSE gray SHALE		2			
	552.20	55			
Auger Refusal @ 16'		45			
Borehole continued with rock coring.					

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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# ROCK CORE LOG

Page 1 of 1

Date 3/31/05

ROUTE FAP 595 DESCRIPTION P92-082-01 Bridge over John Deere Road at proposed 41st St. Connector LOGGED BY W. Garza

SECTION 142-R LOCATION S. Moline Twp. - 10 SW, SEC. , TWP. 17N, RNG. 1W

COUNTY Rock Island CORING METHOD \_\_\_\_\_

STRUCT. NO. \_\_\_\_\_  
Station 525+38.10

BORING NO. B-1c  
Station 526+70  
Offset 2.00ft Lt CL  
Ground Surface Elev. 568.2 ft

DEPT H (ft) CORE (#) RECOVERY (%) R.Q.D. (%) CORE TIME (min/ft) STRENGTH (tsf)

CORING BARREL TYPE & SIZE  
Core Diameter 1.5 in  
Top of Rock Elev. 554.20 ft  
Begin Core Elev. 550.70 ft

Shale: light gray, laminated with mica crystals visible on parting planes, generally soft and chalky. T.S.F.: 547.2 to 546.5 core was cracked.		1	100	63	3.6	66.9
	545.70					
Shale: as above to 543.7, thereafter no recovery - possible washed out sand seam may explain poor recovery.		2	40	17	3.6	
	540.70					
Shale: light gray w/sandier fraction, blockier structure than 1st run, though still soft and chalky. T.S.F.: 537.2 to 536.7		3	100	72	2	183.5
	535.70					
End of Boring						

Color pictures of the cores \_\_\_\_\_  
Cores will be stored for examination until \_\_\_\_\_  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
BBS, form 138 (Rev. 8-99)

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USER NAME = mteng	DESIGNED - MHT	REVISED -
	CHECKED - BWS	REVISED -
PLOT SCALE = 0:2.0000 '1" =	DRAWN - SMY	REVISED -
PLOT DATE = 3/11/2013	CHECKED - BWS	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS 1  
STRUCTURE NO. 081-0176

SHEET NO. S-25 OF S-27 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1JR & 142-1HB)	ROCK ISLAND	507	324
CONTRACT NO. 64B84			ILLINOIS FED. AID PROJECT	