



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

ROCK CORE LOG

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Date 3/28/07

ROUTE FAI 57/70 DESCRIPTION I-57/70 over US 45 LOGGED BY E. Sandschafer

SECTION (25-4.3)R LOCATION N 1/2, SEC. 16, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham CORING METHOD Rotary, surface set diamond bit

STRUCT. NO. (EX) 025-0013/0014 CORING BARREL TYPE & SIZE split inner
Station 2294+12.22 NW, conv dbl bbl, split inner
Core Diameter 2.06 in
BORING NO. 3 Top of Rock Elev. 492.64 ft
Station 2294+64 Begin Core Elev. 492.54 ft
Offset 83.00 ft LT
Ground Surface Elev. 591.14 ft

DEPTH (ft)	RECOVERY (%)	RECOVERED (%)	QUANTITY (min/ft)	STRENGTH (tsf)
492.54	B1-1	100	98	1
-100				
Rock core B3A depth 100.85' to 101.90' Qu = 1191 tsf				
487.54	B1-2	100	68	0.9
-105				
Rock core B3B depth 107.91' to 108.60' Qu = 367 tsf				
482.54				
Extent of exploration.				
-110				
Benchmarks:				
BM 44 Brass disk on SW corner of existing SB/WB structure 025-00140, Station 2291+65, 7.2' Lt = 628.87' elevation.				
BM 45 Brass Disk on NE corner of existing NB/EB structure 025-0013, Station 2295+26, 7.2' Lt = 628.57' elevation.				
BM "LIN 14" Chiseled square in concrete median on US 45 Station 48+55, centerline = 592.07' elevation.				
-115				

Color pictures of the cores Available on request
Cores will be stored for examination until 03/28/08
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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SOIL BORING LOG

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Date 5/7/07

ROUTE FAI 57/70 DESCRIPTION I-57/70 over US 45 LOGGED BY E. Sandschafer

SECTION (25-4.3)R LOCATION N 1/2, SEC. 16, TWP. 8 N, RNG. 6 E, 3 PM

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

STRUCT. NO. (EX) 025-0013/0014
Station 2294+12.22
BORING NO. 4
Station 2295+49
Offset 0.00 ft
Ground Surface Elev. 626.12 ft

DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	Washed (ft)	After 24 Hrs. (ft)
Hard, very moist, brown, CLAY TILL.	2	1.4	21	N/A	N/A					
604.12	1									
Medium to stiff, damp, red, LOAM TILL.	2	1.0	16							
621.62	2									
Soft, damp, brown to gray, SILTY CLAY LOAM.	3	1.8	19							
599.12	1									
Stiff, damp, brown, SILTY CLAY TILL.	3	1.3	23							
596.62	2									
Stiff, damp, red, CLAY LOAM TILL.	3	1.8	12							
614.12	1									
Stiff, damp, gray, SILTY CLAY LOAM.	3	1.7	16							
611.62	1									
Stiff, damp, gray marbled red, CLAY LOAM TILL.	2	1.9	20							
591.62	4									
Stiff, damp, red, SANDY LOAM TILL.	4	1.2	10							
Stiff, damp, red/gray, CLAY LOAM TILL.	7									
1	3	1.5	17							
4	4									
20	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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Station 2294+12.22
BORING NO. 4
Station 2295+49
Offset 0.00 ft
Ground Surface Elev. 626.12 ft

DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	Washed (ft)	After 24 Hrs. (ft)
Stiff, damp, red/gray, CLAY LOAM TILL. (continued)	6	1.3	14	N/A	N/A					
576.62	7									
Stiff, damp, brown, SILTY CLAY TILL.	3									
4	1.9	12								
7										
576.62	3									
Stiff, damp, brown, SILTY CLAY TILL.	7	2.5	14							
11										
556.62	26									
Hard, very moist, brown, SANDY LOAM TILL.	29	4.4	9							
34										
546.62	50/3"									
80										

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)

S:\Projects\403\0002_5770\Bridges\Bridges 025-8648 Y shaped culvert under US 45\DWG\Incl Design CAD Drawings\0258648-74295-011 Borings 03.dwg