



SOIL BORING LOG

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Date 4/19/07

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. 1
 Station 2290+95
 Offset 4.00ft Lt
 Ground Surface Elev. 624.58 ft

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

Groundwater Elev.:
 First Encounter 535.1 ft
 Upon Completion Washed ft
 After 24 Hrs. 612.0 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)
25	39	6.6	11
30		B	
5			
17		4.1	12
50/3"		B	
135			
140			

Very stiff to hard, gray mottled blue, CLAY TILL.

Very hard drilling, broke all teeth off lead auger bit.

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)



ROCK CORE LOG

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Date 4/19/07

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
 Station 2294+12.22

BORING NO. 1
 Station 2290+95
 Offset 4.00ft Lt
 Ground Surface Elev. 624.58 ft

CORING BARREL TYPE & SIZE: NW, conv dbl bbl, split inner
 Core Diameter 2.06 in
 Top of Rock Elev. 493.88 ft
 Begin Core Elev. 493.88 ft

DEPTH (ft)	RECOVERY (%)	RECOVERY (%)	CORE DIAMETER (in)	STRENGTH (tsf)
493.88	B2-1	75	15	0.6
492.58				
491.98				
491.58				
490.78				
-135				
B2-2	100	76	0.6	
-140				
483.88				
-145				
-150				

Gray, LIMESTONE. 493.88

Gray, SANDSTONE. 492.58

Gray, LIMESTONE. 491.98

Gray, SANDSTONE. 491.58

Gray, LIMESTONE. 490.78

Extent of exploration.

Benchmarks:

BM 44 Brass disk on SW corner of existing GB/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.

Color pictures of the cores Available on request
Cores will be stored for examination until 04/19/08
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)



SOIL BORING LOG

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Date 4/24/07

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. 025-0013/0014
 Station 2294+12.22

BORING NO. 2
 Station 2293+18
 Offset 89.00ft Rt
 Ground Surface Elev. 586.36 ft

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

Groundwater Elev.:
 First Encounter 551.4 ft
 Upon Completion 573.4 ft
 After 24 Hrs. 573.9 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)
586.26'			
10	6.6	10	
15	B		
10			
15	6.0	9	
21	B		
9			
15	5.7	10	
20	B		
8			
16	5.9	9	
23	B		
10			
15	5.3	10	
23	B		
551.86			
19			
30	4.9	9	
36	S		
586.36			
0			
0	0.2	27	
2	B		
546.86			
586.36			
566.36			
20			
36			

Topsoil.
Very stiff to medium, damp, gray, CLAY w/ trace fine gravel.

Hard, very moist, gray, CLAY LOAM TILL.

Hard, very moist, gray, SANDY CLAY TILL.

Very soft, very damp, gray, SILTY LOAM.

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)