

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Il. Dept. of Trans. 57

SOIL BORING LOG

Page 1 of 3
Date 12/19/06

ROUTE FAP 328 (US 45) DESCRIPTION Deer Creek LOGGED BY E. Sandschafer

SECTION (10BR-2)B-1 LOCATION Sec 34 - NE 1/4, Sec 35 - NW 1/4, SEC., TWP. 1 N, RNG. 7 E, 3 PM

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

STRUCT. NO. 096-0023 D B U M
Station 384+59 P O S I
BORING NO. 1 T W S Qu T
Station 385+35 H S Qu T
Offset 9.50R Rt
Ground Surface Elev. 422.79 ft (ft) (ft) (tsf) (%)

DEPTH (ft)	DESCRIPTION	D	B	U	M
0	14" asphalt pavement				
421.59	Soft, damp, brown, SILTY LOAM.				
1					
4		0.3	21		
7		B			
417.99	Soft, damp, brown, SANDY LOAM.				
3					
4		0.3	19		
4		B			
415.79	Very soft, very damp, gray, SILTY LOAM.				
4					
2		0.2	13		
1		B			
0					
0		0.5	20		
2		B			
410.79	Stiff, damp, gray, SILTY CLAY.				
3					
3		1.2	21		
5		B			
408.29	Soft to medium, damp, gray, SANDY LOAM.				
0					
2		0.5	16		
4		B			
405.79	Stiff, damp, gray mottled red, SANDY CLAY.				
0					
5		1.2	17		
5		B			
403.29					
1					
382.79					

Surface Water Elev. 410.48 ft
Stream Bed Elev. 409.59 ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Washed ft
After Hrs. Soiling ft

Very stiff, damp, gray, SANDY LOAM. (continued)

Hard, very moist, gray, CLAY TILL

Very stiff, damp, gray, CLAY TILL

Medium, damp, gray, SILTY LOAM w/ some organics.

Stiff, damp, gray, SILTY LOAM CLAY.

** Very dense, moist, gray, CLAY SHALE, powdered and pockershipped. Boring continued with rock coring.
*** 50/3", 50/1", 50/1"

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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ROUTE FAP 328 (US 45) DESCRIPTION Deer Creek LOGGED BY E. Sandschafer

SECTION (10BR-2)B-1 LOCATION Sec 34 - NE 1/4, Sec 35 - NW 1/4, SEC., TWP. 1 N, RNG. 7 E, 3 PM

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

STRUCT. NO. 096-0023 D B U M
Station 384+59 P O S I
BORING NO. 1 T W S Qu T
Station 385+35 H S Qu T
Offset 9.50R Rt
Ground Surface Elev. 422.79 ft (ft) (ft) (tsf) (%)

DEPTH (ft)	DESCRIPTION	D	B	U	M
10	Very stiff, damp, gray, CLAY TILL	5.5	14		
14		B			
5					
9		2.9	15		
12		B			
373.29	Medium, damp, gray, SILTY LOAM w/ some organics.				
0					
1		0.7	19		
3		B			
353.29	Stiff, damp, gray, SILTY LOAM CLAY.				
5					
12		5.2	17		
21		B			
343.29					
342.89					
3					

Surface Water Elev. 410.48 ft
Stream Bed Elev. 409.59 ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Washed ft
After Hrs. Soiling ft

Very stiff, damp, gray, CLAY TILL

Stiff, damp, gray, SILTY LOAM CLAY.

** Very dense, moist, gray, CLAY SHALE, powdered and pockershipped. Boring continued with rock coring.
*** 50/3", 50/1", 50/1"

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)
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ROCK CORE LOG

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Date 12/19/06

ROUTE FAP 328 (US 45) DESCRIPTION Deer Creek LOGGED BY E. Sandschafer

SECTION (10BR-2)B-1 LOCATION Sec 34 - NE 1/4, Sec 35 - NW 1/4, SEC., TWP. 1 N, RNG. 7 E, 3 PM

COUNTY Wayne CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 096-0023 CORING BARREL TYPE & SIZE NW, corw dbl bbl, split inner
Station 384+59 Core Diameter 2.06 in
BORING NO. 1 Top of Rock Elev. 343.29 ft
Station 385+35 Begin Core Elev. 342.89 ft
Offset 9.50R Rt
Ground Surface Elev. 422.79 ft

DEPTH (ft)	DESCRIPTION	R	C	Q	D	E	S	T
342.89	Gray, slightly weathered, SANDY CLAY SHALE.	1	100	83	0.9			
337.89	Sample depth 84.5' - 84.9' Unconfined compressive strength = 161 tsf Gray, slightly weathered, SANDSTONE.	2	100	88	0.5			
332.89	Sample depth 89.5' - 89.9' Unconfined compressive strength = 211 tsf Extent of exploration.							

Benchmark: BM 232 - Cut square in SE corner of existing bridge = 423.23', provided by Program Development.

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)

BENTON & ASSOCIATES, INC.

DESIGNED	MBH
CHECKED	NRF
DRAWN	MBH
CHECKED	NRF

SOIL BORINGS
US 45 / DEER CREEK
F.A.P. RT. 328
WAYNE COUNTY
SN. 096-0068