Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 5/31/07

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

SECTION (9BR1,10BR1)B-1 LOCATION Sec 22 - Se 1/4, Sec 23 - SW 1/4, SEC. , TWP. 1 S, RNG. 7 E, 3 PM

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

STRUCT. NO. 096-0024
Station 139+05

BORING NO. 1
Station 138+44
Offset 9.00ft Rt
Ground Surface Elev. 423.26 ft

Surface Water Elev. 413.48 ft
Stream Bed Elev. 412.24 ft

Groundwater Elev.:
First Encounter 406.3 ft
Upon Completion Washed ft
After Hrs. samples ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
3 1/8" asphalt on 10" concrete pavement. 422.16			
Soft, brown, SILTY LOAM. 421.26	3		
Soft, brown, damp, SANDY LOAM.	3 4	0.4 S	17
-5	1		
	2 2	0.5 B	18
416.26			
Soft, damp, gray, SILTY LOAM.	0		
	0 1	0.3 B	23
413.76			
Very soft, very damp, brown, SANDY LOAM. -10	1		
	3 2	0.7 B	16
410.98			
Stiff, damp, red marbled gray, SILTY CLAY LOAM TILL.	2 3 4	1.8 B	19
408.76			
Stiff, damp, red marbled gray, CLAY LOAM TILL. -15	2 4 5	1.5 B	17
406.26			
Medium, very damp, red, SANDY LOAM.	3 5 11	0.7 S	11
403.26 -20	7		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard, very moist, brown, CLAY SHALE. *Samples pokerchipped, unable to test for Qu.*	18 29	+4.5 PP	15
	7		
	19 25	+4.5 PP	13
-25	8		
	20 22	+4.5 PP	11
	14		
	17 19	+4.5 PP	10
	50/5"		
392.96	50/3" 50/1"	+4.5 PP	6
Borehole continued with rock coring. -40			

Latitude W 88 deg 23.379 min, Longitude N 38 deg 25.066 min, Map Datum WGS 84

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

Date 5/31/07

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

SECTION (9BR1,10BR1)B-1 LOCATION Sec 22 - Se 1/4, Sec 23 - SW 1/4, SEC. , TWP. 1 S, RNG. 7 E, 3 PM

COUNTY Wayne CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 096-0024
Station 139+05

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner

Core Diameter 2.06 in
Top of Rock Elev. 403.26 ft
Begin Core Elev. 392.96 ft

BORING NO. 1
Station 138+44
Offset 9.00ft Rt
Ground Surface Elev. 423.26 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Gray, moderately weathered, CLAY SHALE. 392.96	B5-1	93	93	0.9	
Rock core B1A @ 33.9' to 34.4' depth, Qu = 7.8 tsf. -35	B5-2	100	100	0.9	
Rock core B1B @ 39.3' to 39.8' depth, Qu = 9.2 tsf. 382.96 -40					
Extent of exploration.					
-45					
-50					

Benchmark: BM 243 chiseled square on concrete curb in SW corner of existing bridge = 423.94' elevation. Provided by Program Development.

Color pictures of the cores Available on request
Cores will be stored for examination until 05/31/08
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

Date 6/1/07

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

SECTION (9BR1,10BR1)B-1 LOCATION Sec 22 - Se 1/4, Sec 23 - SW 1/4, SEC. , TWP. 1 S, RNG. 7 E, 3 PM

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

STRUCT. NO. 096-0024
Station 139+05

BORING NO. 2
Station 139+57
Offset 9.00ft Lt
Ground Surface Elev. 423.43 ft

Surface Water Elev. 413.48 ft
Stream Bed Elev. 412.24 ft

Groundwater Elev.:
First Encounter 406.4 ft
Upon Completion 415.1 ft
After Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8 1/2" asphalt on 9 1/4" concrete pavement. 421.93			
Medium to very soft, very damp, gray, SILTY LOAM.	0		
-5	3 3	0.9 S	18
	0		
	2 3	0.3 B	23
	0		
	0 0	0.1 B	28
413.43 -10	2		
Stiff, damp, brown, LOAM.	9 9	1.5 S	15
411.03	3		
Soft, damp, brown, SANDY LOAM.	5 4	0.4 B	15
408.93			
Medium to stiff, red marbled gray, SANDY CLAY TILL. -15	1		
	1 4	1.0 B	18
	1		
405.73			
Soft, very damp, SILTY LOAM.	3 6	0.3 B	23
403.93 -20	11		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very stiff, damp, brown, CLAY LOAM TILL. *(continued)*	15 34	3.1 B	10
400.93	5		
Very stiff, damp, gray, SILTY CLAY SHALE.	9 14	2.3 S	16
-25	4		
	9 13	1.5 B	16
	8		
	15 37	+4.5 PP	9
-30	25		
393.03	50/4" 50/2"		7
Extent of exploration. -35			
-40			

Benchmark: BM 243 chiseled square on concrete curb in SW corner of existing bridge = 423.94' elevation. Provided by Program Development.

Latitude W 88 deg 24.892 min, Longitude N 38 deg 25.575 min, Map Datum WGS 84

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)

PLOT DATE = 09/05/2008
FILE NAME = ...\sht-17-boring-logs.dgn
PLOT SCALE = 01.0000 '/' IN.
USER NAME = TFG.

BORING LOGS
U.S. ROUTE 45 OVER MARTIN CREEK
F.A.P. RT. 328 SEC. (9BR1-10BR1) B-1
WAYNE COUNTY
STATION 139+10.00
STRUCTURE NO. 096-0069

COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	PROJECT NO. 07053-8 SCALE DATE 8/05/08 DRAWN BY TFG CHECKED BY RM/MCB	SHEET NO. 17 17 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
			328	(9BR1-10BR1) B-1	WAYNE	67 / 40
					CONTRACT NO. 74214	
			FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	