Illinois Department of Transportation
Division of Highways
District Nine Materials

SOIL BORING LOG

Date 9-9-12

ROUTE FAP 885 (IL 146) DESCRIPTION FAP 885 (IL 146) over Peters Creek LOGGED BY R. Moberly

SECTION 118-1 LONGITUDE _____ LATITUDE _____

COUNTY Hardin DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 035-0012
Station 228+28

BORING NO. 2-S
Station 229+00
Offset 11.00ft Rt.
Ground Surface Elev. 373.0 ft

Surface Water Elev. 355.5 ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After ____ Hrs. _____ ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Asphalt and Concrete			
371.5			
Medium, very moist, brown, Clay to Silty Clay A7-6	1		
	1	0.8	23
	1	B	
	1		
-5	2	0.8	29
	2	B	
366.0			
Stiff, moist, grey, Silty Clay A-6	1		
	3	1.6	23
	3	B	
363.5			
-10 Stiff, moist, grey and brown, Clay A7-6 with Sandstone gravel	2		
	4	1.5	23
	5	B	
361.0			
Stiff, moist, grey, Silty Clay A-6 with Sandstone gravel	1		
	3	1.3	23
	3	B	
-15	2		
	5	1.1	20
	4	B	
356.0			
Medium, very moist, grey, Clay to Silty Clay A7-6 with gravel	1		
	3	0.8	18
	3	B	
353.5			
-20	2		

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Medium, very moist, brown mottled grey, Silty Clay A-6 (continued)	2	0.9	26
351.0	1	B	
Very soft, wet, brown mottled grey, Silty Clay A-6	WH		
	WH	0.1	27
348.5	WH	E	
-25 Soft to medium, very moist, grey, Clay to Silty Clay A7-6	WH		
	1	0.5	32
340.0	3	B	
Medium dense, moist to v. moist, brown, broken Sandstone gravel with Clay binder	3		
	6		
343.5	5		
-30 Medium, very moist, grey, Clay A7-6 with Sandstone gravel	1		
	4	0.8	18
	6	B	
341.0	4		
Medium dense, very moist, grey and brown, broken Sandstone gravel with Clay binder	6		
	9		
338.5	2		
-35 Medium to soft, very moist, brown, Silty Clay A-6 with Sandstone gravel	4	0.5	17
	6	E	
	2		
	3	0.5	17
	4	E	
333.5			
-40	3		

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, form 137 (Rev. 11-11)

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First Encounter _____ ft
Upon Completion _____ ft
After ____ Hrs. _____ ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Loose, very moist, brown, broken Sandstone gravel with Clay binder (continued)	5		
	4		
328.5			
Medium, very moist, red brown, Clay A7-6 with gravel	WH		
-45	1	0.7	32
	2	B	
323.5			
Soft, very moist, red brown, Clay A7-6	WR		
-50	WH	0.4	61
	1	B	
318.5			
Very soft, wet, red brown, Clay A7-6	1		
-55	1	0.1	48
	3	B	
315.5			
Hard, dry, grey, Limestone	100/1"		
315.0			
-60			

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Cored from 59.0 to 62.6 feet			
100% Recovery, 100% RQD			
Hard, dry, grey, Limestone (continued) 310.5			
Cored from 62.6 to 67.6 feet			
100% Recovery; 100% RQD			
-65 Hard, dry, grey, Limestone			
305.5			
Bottom of hole = 67.6 feet			
No free water observed			
-70 Elevation referenced to BM at NW wingwall: Elev. = 370.8 feet			
Borehole advanced with hollow stem auger (8" O.D., 3.25" I.D.)			
To convert "N" values to "N60", multiply by 1.25.			
-75			
-80			

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BBS, form 137 (Rev. 11-11)

1 SHEET ADDED 1-4-13

DESIGNED - Michael D. Rolape	EXAMINED	DATE - NOVEMBER 21, 2012	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
CHECKED - Stephen M. Ryan	ACTING ENGINEER OF BRIDGE DESIGN	REVISED	
DRAWN - Michael B. Massman	PASSED	REVISED	
CHECKED - GRA/SMR	ACTING ENGINEER OF BRIDGES AND STRUCTURES		

SOIL BORING LOGS
STRUCTURE NO. 035-0016
SHEET NO. 21 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	118-1	HARDIN	50	41
		CONTRACT NO. 78152		
	ILLINOIS FED. AID PROJECT			