Illinois Department of Transportation
Division of Highways
IDOT – Region 5/Dist 5

SOIL BORING LOG

Date 12/4/07

ROUTE FAP 836 (IL 49) DESCRIPTION IL 49 over the Little Vermilion River – 4 Miles South of Homer LOGGED BY CNA

SECTION 118BR-2 LOCATION NE, SEC. 5, TWP. 17N, RNG. 14W, 2nd PM

COUNTY Champaign DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 010-0284
Station 688+85

BORING NO. 2 South Abut.
Station 688+19
Offset 7.0 ft Rt.
Ground Surface Elev. 679.1 ft

Surface Water Elev. 664.0 ft
Stream Bed Elev. 662.6 ft

Groundwater Elev.:
First Encounter 668.6 ft ▼
Upon Completion Plugged ft
After ___ Hrs. ___ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Pavement	677.1				
Brown/Gray Mixed Clay Loam (Embankment)	673.6		4		
			4	1.6	16
		-5	4	S	
Brown/Gray Mottled Silty Clay Loam (Embankment)	670.6		3		
			2	0.8	21
			1	B	
Dark Gray Mottled Silty Clay	668.6 ▼		6		
			2	1.4	27
		-10	2	B	
Gray to Brown Silt	664.1		1		
			2		24
			3		
			2		
			4		25
		-15	5		
Gray Silty Clay Loam Till	660.6		2		
			4	1.2	12
			5	B	
Gray Clay Loam Till with Intermittent Layers of Silt			2		
			3	2.7	10
		-20	3	B	
Gray Clay Loam Till with Intermittent Layers of Silt (continued)	656.1		3		
			6	4.5	11
			5	B	
Gray Silt	653.1		2		
			3		18
		-25	5		
Gray Silty Clay Loam Till	651.1		2		
			4	1.9	13
			6	B	
Gray Sandy Clay Loam Till	643.1		2		
			4	3.0	12
		-30	4	B	
			11		
			21		7
		-35	30		
Brown/Gray Sandy Clay Loam to Sand Loam Till			7		
			15	13.2	8
		-40	26	B	

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.

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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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown/Gray Sandy Clay Loam to Sand Loam Till (continued)			12		
			19	12.6	8
		-45	29	B	
			39		
			39		8
(Drove Sampler on Rock)	629.1	-50	22-4"		
End of Boring		-55			
		-60			

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.

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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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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORING DATA - 2
IL RTE. 49 OVER LITTLE VERMILION RIVER
FAP 836 SECTION 118BR-2
CHAMPAIGN COUNTY
STA. 688+85 STR. NO. 010-0284

SCALE: VERT. HORIZ.
DATE MAY 2008
DRAWN BY GEW
CHECKED BY MJS

TUG PROJ.* 3107012-01
PLOT DATE = 8/19/2008 4:28:20 PM
FILE NAME = ...\bridge\lvr-soilbor.dgn