

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



Illinois Department of Transportation  
Division of Highways  
District 6

SOIL BORING LOG

Page 1 of 2

Date 4/18/07

ROUTE FAP 317 (US 24) DESCRIPTION US 24 over the Lamoine River LOGGED BY M. Tappan

SECTION 10(B-1)R LOCATION NE 14, SEC. 33, TWP. 1 N, RNG. 2 W, 4 PM

COUNTY Brown DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO.	DESCRIPTION	D	B	U	M	Surface Water Elev.	D	B	U	M	
005-0500 Pr	005-0500 Pr					436.1 ft					
Station	Station					431.2 ft					
		P	O	S	I		P	O	S	I	
		T	W		S	Groundwater Elev.:	T	W		S	
BORING NO. 5 Pier 2		H	S	Qu	T	▽ First Encounter	H	S	Qu	T	
Station 437+70						435.3 ft					
Offset 0.0ft						▽ Upon Completion					
Ground Surface Elev. 452.3 ft	(ft)	R	B	(tsf)	(%)	441.3 ft	(ft)	R	B	(tsf)	(%)
Brown and Grey Moist SILTY CLAY LOAM						Greyish Brown Very Moist SILTY CLAY (continued)					
		0					0	B			
		2	0.8	18		Brown and Grey	0	0.5	25		
		2	S-12				1	B			
		1				Moist	0				
with Loam Seams		3	0.6	25			2	0.5	21		
		2	B				2	B			
		1				Dark Grey	1				
		1	0.4	23			2	1.5	20		
		1	B				3	B			
		0				494.30					
Wet		1	0.2	29		Grey Moist Clayey Shale Drilled Hard					
		1	B			Borehole continued with rock coring.					
		0									
		1									
		0									
		0	0.0	27							
		1	Slump								
		0									
		0	0.3	23							
		1	B								
		0									
		1	0.4	23							
		1	B								
		0									
		0	0.4	24							
		0									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B)-Bulge, S-Shear, P-Penetrometer, E-Estimated  
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

File Name: S:\PROJECTS\ILLINOIS\100-0500\100-0500 10 34 OVER LAMOINE RIVER\G01.DWG  
Last Modified: 04/18/07 11:05 AM  
Drawing No: 100-0500-010  
Date Plotted: 04/18/07 11:05 AM  
Printer: 05000-100-0500-010



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ROCK CORE LOG

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SECTION 10(B-1)R LOCATION NE 14, SEC. 33, TWP. 1 N, RNG. 2 W, 4 PM

COUNTY Brown CORING METHOD Water

STRUCT. NO.	DESCRIPTION	D	C	R	Q	CO	RE	Y
005-0500 Pr	005-0500 Pr							
Station	Station							
		P	O	S	I			
		T	W		S			
BORING NO. 5 Pier 2		H	S	Qu	T			
Station 437+70								
Offset 0.0ft								
Ground Surface Elev. 452.3 ft	(ft)	(#)	(%)	(%)	(minft)	(tsf)		
Dark Grey Very Well Indurated Calcareous SHALE with Some Sandy Calcareous Shale Seams No Jointing		1	98	98			118	
	418.00							
Dark Grey Very Well Indurated Clay SHALE No Jointing		2	100	100			60.4	
	418.00							
Dark Grey Very Well Indurated Clay SHALE No Jointing								
0.5" Open Joint Filled with Soft Clayey Shale								
	408.20		100	79				
Dark Grey Poorly Indurated Clayey SHALE Closed Jointing Spaced 2" to 12"							15.2	
	407.70							
Dark Grey Well Indurated Fossiliferous Calcareous SHALE Open Joints Spaced 2" to 12"								
	406.90							
Dark Grey to Grey Well Indurated Fossiliferous Argillaceous LIMESTONE interbedded with Grey Calcareous Seams Closed Joints Spaced 1' to 3'							294	
	404.10							

Color pictures of the cores Y  
Cores will be stored for examination until 5 Yrs After Construction  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
RQD is the ratio of the total length of sound core specimens >4" to total length of core run

BBS, form 136 (Rev. 8-99)

SOIL BORINGS (3 OF 4)  
STRUCTURE NO. 005-0500

<b>LE</b> LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois	SHEET NO. 28	F.A.P. RTE. 317	SECTION (10B-1)R	COUNTY BROWN/SCHUYLER	TOTAL SHEETS 196	SHEET NO. 147
	29 SHEETS	CONTRACT NO. 72432				
ILLINOIS FED. AID PROJECT						