STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 2

Date 4/23/07

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

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

COUNTY Brown DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 005-0001 Ex / 005-0500 Pr
Station 436+67

BORING NO. 3 W. Abut
Station 434+43
Offset 20.0ft Lt
Ground Surface Elev. 451.5 ft

Surface Water Elev. 436.1 ft
Stream Bed Elev. 431.2 ft

Groundwater Elev.:
▽ First Encounter 442.5 ft
▼ Upon Completion Washed ft
▼ After 22 Days Hrs. 445.0 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Brown and Grey Moist SILTY CLAY LOAM			1		
			2	0.9	22
			2	B	
			0		
Grey V. Moist			1	0.3	26
		-5	2	B	
Grey Moist SILTY CLAY	446.00		0		
▼			1	0.6	29
			2	B	
▽			0		
Brown and Light Grey V. Moist Free Water			0	0.2	22
		-10	1	B	
Moist			1		
			2	0.6	27
			2	B	
			0		
Grey and Light Brown			2	1.0	25
		-15	3	B	
			1		
			2	1.0	23
			3	B	
	432.50		0		
Brn Med Clean SAND			0		
W.O.H.		-20	0		
Brn Med Clean SAND (continued)			0		
W.O.H.			0		
			0		
			1		
w/Some Medium Grained GRAVEL Washed			1		
		-25	0		
			2		
Grey Fine Grained SAND w/Grey V. Moist Silty Clay Loam Seams Washed			1		
		-30	3		
			1		
Washed			2		
		-35	2		
	415.50				
Brown Medium Grained Angular L.S. GRAVEL			12		
	411.50	-40	25		
			75		

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, from 137 (Rev. 8-99)

File Name S:\SOIL\LGINT FILES\BROWN\005-0500 US 24 OVER LAMOINE RIVER.LGT Data Template DOTSBARV5.GDT Date Printed 9/26/09
Latitude 40 Deg 41.08 N Longitude 90 Deg 37.979 W Datum NAD83 Job Number 206-035-40

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Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Interpreted Brown Weathered Argillaceous LIMESTONE			/4"		
	408.50				
Grey Moderately Indurated Clayey SHALE w/Calcareous Seams			4		
			46		
		-45	54		
			/3"		
	405.50				
Auger Refusal at 46'					
Boring Completed					
		-50			
		-55			
		-60			

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SOIL BORINGS (1 OF 4)

STRUCTURE NO. 005-0500

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois

Designed By: ADB | Checked By: MTH | Drawn By: AJF
Dates 06/2009 | Files 005-0500.DGN

SHEET NO. 26
29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(10B-1)R	BROWN/SCHUYLER	196	145
		CONTRACT NO. 72432		
	ILLINOIS	FED. AID PROJECT		