

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation
Boring Log
Sheet 1 of 3

Route: ILL 13 Over Big Muddy River
Structure Number: 039-0013 and 039-0049
Date: 10/8/2004
Section: Station: 343+17
Offset: 22' RT EB CL
County: Jackson Location: E. Edge of Murphysboro
Bored By: Bryan Keller
Checked By: Rob Graeff

Boring No: 6-S	D E P T H	B L O W	Qu tsf	W%	Surf Wat Elev: 338.5	D E P T H	B L O W	Qu tsf	W%
Very stiff, damp, brown, Silty Clay A-6					356.0	3	2.1B	21	
	1								
	4	2.5B	11						
	8				353.5				
	5.0	2				30.0	WH		
	4	2.1B	15			2	1.1B	21	
	3				351.0				
Very stiff, moist to very moist, brown, Silty Clay A-6	1								
	3	2.1B	20			2	0.9B	29	
	3				373.5				
Stiff, very moist, brown, Silty Clay A7-6	10.0	1				35.0	WH		
	2	1.1B	24			1	0.8B	29	
	2				371.0				
Stiff, moist to very moist, brown, Silty Clay to Silty Clay Loam A-6	1								
	3	1.3S	20						
	4				343.5				
	15.0	1				40.0	WH		
	2	1.3S	23			1	0.7B	26	
	4				366.0				
Medium, very moist, brown, Silty Clay Loam A-6		WH							
	2	0.7S	22						
	2				363.5				
Medium, very moist, brown, Silty Clay to Silty Clay Loam A-6	20.0	WH				45.0	WH		
	1	0.6S	25			1	1.2S	31	
	1				381.0				
Medium, moist to very moist, grey, Clay Loam A-6		WH							
	3	0.9B	20						
	3				358.5				
	25.0	WH				50.0	WH		

N-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail R-Bulge S-Shear E-Estimated P-Penetrometer)

Sheet 2 of 3

Route: ILL 13
Section: Station: 343+17
Offset: 22' RT EB CL
County: Jackson

Boring No: 6-S	D E P T H	B L O W	Qu tsf	W%	Surf Wat Elev: 383.0 Ft	D E P T H	B L O W	Qu tsf	W%
Medium, very moist, brown, Clay A7-6					328.5	2	0.8S	28	
	1								
	55.0	1							
	1	1.4S	30		303.5				
	4								
Loose to medium, wet, grey, fine Sand with Coal Chips and some Gravel	80.0	4							
	5								
	5				323.5				
Soft to medium, very moist, grey, Clay to Silty Clay A7-6 with Sand Layers	60.0	WH							
	2	0.5B	24						
	2				318.5				
Stiff, very moist, brown, Clay A7-6 with Clay Loam and Sand Layers	65.0	4							
	7	1.3B	32						
	4				293.5				
Medium, wet, grey, Sandy Gravel	90.0	4							
	10								
	15								
72% Sand; 15% Silt; 6% Clay; 7% Gravel	291.0								
Hard, dry, black Coal		100/3"							
					115.0				
					110.0				
					135.0				
					140.0				
					145.0				
					150.0				
					120.0				
					125.0				
					150.0				
					100.0				

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Sheet 3 of 3

Route: ILL 13
Section: Station: 343+17
Offset: 22' RT EB CL
County: Jackson

Boring No: 6-S	D E P T H	B L O W	Qu tsf	W%	Surf Wat Elev: 383.0 Ft	D E P T H	B L O W	Qu tsf	W%
Hard, dry, black Clay Shale					280.5				
					100/3"				
Bottom of hole = 102.5 ft.									
Free water observed at 50.0 ft.									
					105.0				
Elevation referenced to Bk W Abut Str # 039-0013 Sta 343+06 Elevation = 383.47									
To convert "N" values to "N60" values multiply by 1.25.									
					130.0				
					135.0				
					140.0				
					145.0				
					150.0				
					125.0				
					150.0				

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