ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation
Boring Log
Sheet 1 of 3

(1)

ILL 13 Over Big Muddy River

Route: ILL 13 Structure Number: 039-0013 and 039-0049 Date: 10/20/2004
Section
County: Jackson Location: E. Edge of Murphysboro Bored By: Bryan Keller
Checked By: Rob Graeff

Boring No 1-S
Station 338+68
Offset 28' LT WB CL
Ground Surface 383.2 Ft

Surf Wat Elev: 339.7
Ground Water Elevation
when Drilling 343.7
At Completion 351.4
At: 24 Hrs: 355.0

Description	DEPTH	BLOW	Qu tsf	W%
Very stiff, damp, brown, Silty Clay A-6				
		5		
		9	2.9B	13
		10		
	378.7			
Stiff, moist, brown, Silty Clay Loam A-6	5.0	2		
		5	1.7B	16
		7		
		1		
		5	1.2S	15
		7		
	10.0	1		
		5	1.2S	19
		5		
	371.2			
Very stiff, moist, brown, Silty Clay Loam A-6		1		
		5	2.4S	17
		6		
	368.7			
Very stiff, moist, brown mottled grey, Silty Clay A-6	15.0	1		
		4	2.6B	23
		5		
	366.2			
Stiff, very moist, brown mottled grey, Silty Clay A-6		1		
		3	1.2B	25
		3		
	363.7			
Stiff, moist, grey, Silt Loam A-4	20.0	1		
		5	1.2B	21
		4		
	361.2			
Stiff, moist to very moist, grey, Silty Clay A-6		1		
		2	1.6B	22
		4		
	358.7			
	25.0	1		

Description	DEPTH	BLOW	Qu tsf	W%
Stiff, very moist, brown mottled grey, Silty Clay to Clay A7-6		3	1.9B	23
		5		
		1		
		2	1.3B	26
		3		
	353.7			
Stiff, very moist, brown, Clay to Silty Clay A7-6	30.0	1		
		2	1.2B	23
		3		
	351.2			
Very stiff, very moist, brown mottled, grey, Clay to Silty Clay A7-6		1		
		3	2.4B	22
		4		
	348.7			
Medium, very moist, brown mottled grey, Clay to Silty Clay A7-6	35.0	WH		
		3	0.9B	25
		3		
	346.2			
Stiff, very moist, brown mottled grey, Clay to Silty Clay A7-6		1		
		2	1.7B	25
		3		
	343.7			
Stiff, very moist, grey, Silty Clay Loam A-6	40.0	1		
		1	1.5P	31
		1		
	338.7			
Stiff, wet, grey, Clay A7-6	45.0	WH		
		1	1.1B	55
		WH		
	333.7			
	50.0	WH		

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

Sheet 2 of 3

(1)

Route: ILL 13 Date: 10/20/2004
Section:
County: Jackson

Boring No: 1-S
Station: 338+68
Offset: 28' LT WB CL
Ground Surface: 383.2 Ft

Description	DEPTH	BLOW	Qu tsf	W%
Very stiff, moist, brown, Clay A7-6 with Sand Layers		1	2.6B	19
		2		
	328.7			
Stiff, very moist, grey, Clay A7-6 with Sand and Silt Loam Layers	55.0	1		
		3	1.8S	26
		9		
	60.0	1		
		2	1.1B	35
		6		
	318.7			
Stiff, very moist, brown, Clay A7-6	65.0	2		
		4	1.8S	32
		4		
	313.7			
Very stiff, very moist, brown, Clay A7-6	70.0	3		
		6	2.1B	31
		7		
	308.7			
	75.0	WH		

Description	DEPTH	BLOW	Qu tsf	W%
Medium, wet, brown, Clay A7-6		1	0.9B	52
		3		
	303.7			
Medium, very moist, brown, Clay A7-6 with Sand Layers	80.0	WH		
		3	0.6B	25
		5		
	85.0			
Medium, wet, grey, fine to medium Sand 93% Sand 3% Silt 4% Clay	90.0	10		
		13		21
		16		
	288.7			
Hard, dry, grey, Clay Shale over Coal	95.0	100/11"		
	287.7			
Bottom of hole = 95.5 ft Free water observed at 39.5 ft. Elevation referenced to Bk .E. Abut Sta 338+89 Elevation = 383.47 ft. To convert "N" values to "N60" valuesmultiply by 1.25.				
	100.0			

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

Note:
(1) Only 2 Boring 1-S sheets.