ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation
Boring Log

FA Rte 686 (IL 4) Over Beaucoup Creek

Sheet 1 of 2

Route: FA Rte 686 (IL Structure Number: 039-0042 Date: 10/3/2008
Section: 115B, 115B-BR Bored By: Rich Moberly
County: Jackson Location: 0.5 mi West of IL Rte 13/127 Checked By: Rob Graeff

Boring No 5-S (2008)
Station 1122+15
Offset 32' Lt CL
Ground Surface 383.5 Ft

Surf Wat Elev: 355.1
Ground Water Elevation when Drilling 363.5
At Completion
At: Hrs:

Description	DEPTH	BLOWS	Qu tsf	W%
Hard, damp, brown and grey, Silty Clay A-6		2		
These break lines are correct. The rig is elevated; 1st sample is 1.5 to 3.0		6	4.5S	14
		8		
	379.5			
Very stiff, moist, grey and brown, Silty Clay to Clay A7-6		1		
	5.0	4	2.1B	22
		5		
	377.0			
Medium, very moist, grey, Clay A7-6		1		
		2	0.9B	41
		3		
	374.5			
Very stiff, moist, grey, Clay A7-6		1		
	10.0	3	2.3B	33
		4		
		1		
		4	2.1B	29
		4		
	369.5			
Stiff, moist, grey mottled brown, Clay A7-6		1		
	15.0	3	1.7S	35
		4		
		1		
		4	2.1B	26
		5		
	364.0			
Soft, very moist, brown mottled grey, Silt Loam A-4		1		
	20.0	4	0.3B	26
		4		
		1		
		3	0.3B	28
		3		
	359.5			
Medium to stiff, very moist, brown, Silty Clay Loam A-6		1		
	25.0	2	1.0B	24

Description	DEPTH	BLOWS	Qu tsf	W%
Medium to stiff, very moist, brown, Silty Clay Loam A-6		3		
		1		
		3	1.1B	18
		4		
	354.5			
Very stiff, moist, brown, Clay to Silty Clay A7-6		1		
	30.0	4	2.1B	17
		5		
		2		
		5	2.3B	16
		6		
	347.0			
Very stiff, damp to moist, brown, Clay A7-6		2		
		6	2.7B	16
		8		
		1		
	40.0	5	3.1B	16
		8		
		2		
	45.0	8	3.1B	16
		11		
		2		
	50.0	8	3.3B	17

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

Sheet 2 of 2

Route: FA Rte 686 (IL 4) Date: 10/3/2008
Section: 115B, 115B-BR
County: Jackson

Boring No: 5-S (2008)
Station: 1122+15
Offset: 32' Lt CL
Ground Surface: 383.5 Ft

Description	DEPTH	BLOWS	Qu tsf	W%
Very stiff, damp to moist, brown, Clay A7-6		10		
		2		
	55.0	7	2.5B	22
		9		
	324.5			
Stiff, moist, grey, Clay A7-6		2		
	60.0	5	1.6B	19
		5		
3' blow-in	319.5			
Loose, wet, grey, fine Silty Sand		WH		
	65.0	WH		
		4		
	317.5			
Very dense, moist, grey, Silty Sand with some Gravel 72% Sand 11% Silt 12% Clay 5% Gravel		Washed 2'		
		9		
	70.0	33		22
		35		
	309.5	Washed 3'		
Medium, moist, grey, fine Sand with Clay layers		6		
	75.0	14		

Description	DEPTH	BLOWS	Qu tsf	W%
Medium, moist, grey, fine Sand with Clay layers 80% Sand 16% Silt 4% Clay		14		
	304.5	Washed 1'		
Very dense, moist, grey, fine Sand 80% Sand 16% Silt 4% Clay		14		
	80.0	30		23
		35		
	294.5	Washed 1'		
Medium, very moist, grey and black, fine Sand with Coal pieces		4		
	90.0	9		
		14		
	290.5			
Hard, damp, grey, weathered Clay Shale	289.5			
Hard, dry, grey, Clay Shale	289.0	100/3"		
	95.0			
Bottom of hole 94.3 feet				
Free water observed at 20.0 ft				
Elevation referenced to BM @ NE wingwall = 384.3 feet				
To convert "N" values to "N60" values multiply by 1.25				
	100.0			

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140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

BORING 5-S