

MIDLAND STANDARD ENGINEERING & TESTING, INC.

BRIDGE FOUNDATION BORING LOG

SHEET 1 OF 2

PROJECT IL 31 - Algonquin Bypass BRIDGE Mainline Route 31 DATE 12/24/09, 12/30/09

ROUTE IL Route 31 at IL Route 62 BORED BY SPE

SECTION STATION 131+50 to 133+20 CHECKED BY WJW

COUNTY McHenry				WATER LEVEL DURING DRILLING 5.5'			
BORING BB-4				Rotary Mud Drilling, Hole Grouted at Completion			
STATION 130+75							
OFFSET 39' R of CL							
Depth	N/6"	Qu	W	Depth	N/6"	Qu	W
Ft				Ft			
GROUND SURFACE EL. 746.0				Brown-Grey Clay LOAM, A-6, very stiff 726.0			
Brown SAND and GRAVEL, A-1: FILL							
6			6	8			13
9				11		3.72	
5				11		B	
2				8			14
2		1.20	21	10		3.67	
2		B		13		B	
Dark Grey to Black Silty Clay LOAM, A-6: FILL, stiff 743.0							
Brown SAND and GRAVEL, A-1, wet, medium dense to dense 740.5							
10			7	7		2.51	15
16				9		B	
9				14			13
6			11	6		2.71	
10				9		B	
10				10			15
16			12	8		2.5	
17				10		P	
19				14			15
6			8	13			
14				14		4.33	16
21				16		B	
Brown-Grey Clay LOAM, A-6, very stiff 730.5				Grey and Brown Clay LOAM, A-6(6)* continued			
13				8			14
14				10		3.10	
16				8		B	
8			10	10			14
10				8			

N-Standard Penetration Test- Blows per foot to drive 2 inch O.D. Split Spoon Sampler 12 inches with 140 lbs. hammer falling 30 inches

Qu- Unconfined Compressive Strength (tsf)
W- Water Content-percentage of oven dry weight (%)
ST- Shelby Tube Sample
* - Classification Test Results on Form BBS 2640

Type failure:
B- Bulge Failure
S- Shear Failure
E- Estimated Value
P-Penetrometer

MIDLAND STANDARD ENGINEERING & TESTING, INC.

BRIDGE FOUNDATION BORING LOG

SHEET 2 OF 2

BORING BB-4

Depth	N/6"	Qu	W	Depth	N/6"	Qu	W
Ft				Ft			
CONTINUED				Grey SAND and GRAVEL, A-1, medium dense 681.0			
Brown-Grey Clay LOAM, A-6(6)*, very stiff 706.0							
5		1.74	15	14			8
7		B		13			
13				13			
Grey SAND and GRAVEL, A-2, medium dense 699.2				Grey Dolomite Bedrock 673.0 moderately to highly weathered, fine to medium grained, medium horizontal bedding, numerous horizontal fractures with frequent vertical fractures, moderately porous			
8			10	ROCK CORE			
10				16			
16				8			
10				10			
16				16			
2		1.43	20	Core Run 1 Recovery = 99% RQD = 43%			
3		BS		8			
6				10			
14				14			
Brown-Grey Clay LOAM, A-6, stiff 694.0				End of Boring @ 83.0' 663.0			
Brown Sandy Clay LOAM, A-6 to A-4, medium dense 690.0							
6		2.38	10				
10		B					
14							
Grey Sandy Clay LOAM, A-4 686.0							
6							
10							
14							
Grey SAND and GRAVEL, A-1, dense 684.3							
13			7				
15							
17							

MIDLAND STANDARD ENGINEERING & TESTING, INC.

BRIDGE FOUNDATION BORING LOG

SHEET 1 OF 2

PROJECT IL 31 - Algonquin Bypass BRIDGE IL 31 over Crystal Creek DATE 1/8/09

ROUTE IL Route 31 at IL Route 62 BORED BY SPE

SECTION STATION 126+45 to 127+90 CHECKED BY WJW

COUNTY McHenry				WATER LEVEL DURING DRILLING 3.0'			
BORING BB-8				Rotary Mud Drilling, Hole Grouted at Completion			
STATION 127+89							
OFFSET 29' R of CL							
Depth	N/6"	Qu	W	Depth	N/6"	Qu	W
Ft				Ft			
GROUND SURFACE EL. 739.6				Brown and Grey Clay LOAM A-6, very stiff to hard 719.6			
Black Clay LOAM, A-7-6, stiff							
1			68	3		2.64	14
2		1.0		6		B	
3		P		10			
Brown SAND and GRAVEL, A-1, medium dense to very dense 736.6							
7			5	4		3.17	13
8				8		B	
14				11			14
Grey Silt LOAM, A-4, medium dense 726.6							
7			14	7		3.95	14
9				10		B	
11				14			13
Brown-Grey Clay LOAM, A-6, firm to stiff 724.1				Grey SAND, A-2 700.1			
4		0.93	15	3		3.0	13
6		B		3		P	
7				4			
4		1.78	14	3			
5		B		4			
6				4			

N-Standard Penetration Test- Blows per foot to drive 2 inch O.D. Split Spoon Sampler 12 inches with 140 lbs. hammer falling 30 inches

Qu- Unconfined Compressive Strength (tsf)
W- Water Content-percentage of oven dry weight (%)

Type failure:
B- Bulge Failure
S- Shear Failure
E- Estimated Value
P-Penetrometer

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DRAWN - K. BOCHNOWSKI
DESIGNED - D. ATKINS
CHECKED - G. HATLESTAD
DATE - 5/3/2012

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS I
WALL D: IL RTE 31
STRUCTURE NO. 056-2501
SHEET NO. 07 OF 08 SHEETS

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	611
CONTRACT NO. 60F72				
ILLINOIS FED. AID PROJECT				