

MIDLAND STANDARD ENGINEERING & TESTING, INC.

BRIDGE FOUNDATION BORING LOG

SHEET 1 OF 2

PROJECT IL. 31 - Algonquin Bypass BRIDGE Ramp B over Crystal Creek DATE 12/31/08, 1/7/09

ROUTE IL. Route 31 - Ramp B (Northbound Exit to Route 62) BORED BY SPE

SECTION STATION 10+20 to 11+80 CHECKED BY WJW

COUNTY McHenry  
BORING BB-11  
STATION 11+81  
OFFSET 13' L of CL

WATER LEVEL DURING DRILLING 1.5'				Rotary Mud Drilling, Hole Grouted at Completion			
Depth	N/6"	Qu tsf	W %	Depth	N/6"	Qu tsf	W %
GROUND SURFACE EL. 739.5				Ft			
Black Silty CLAY, A-7-6				719.5			
Grey SAND and GRAVEL, A-1, medium dense to dense				738.2			
3	5	-	9	6	10	2.56	13
7	13	-	8	5	10	2.40	13
15	15	-	10	12	12	3.41	12
21	58	-	8	8	13	3.57	13
11	15	-	7	13	21	3.28	15
Grey Clay LOAM, A-6				726.5			
5	7	3.09	14	4	8	2.09	13
7	12	2.05	14	12	16	-	20
Grey and Brown Clay LOAM, A-6(7)*				720			
ST	2.52	B	14	5	18	3.28	15

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 (%)  
\* - Classification Test Results on Form BBS 2640  
Type failure: B- Bulge Failure S- Shear Failure E- Estimated Value P-Penetrometer

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SHEET 2 OF 2

BORING BB-11

Depth	N/6"	Qu tsf	W %	Depth	N/6"	Qu tsf	W %
CONTINUED				Ft			
Grey Clay LOAM, A-6				699.5			
Grey SAND and GRAVEL, A-1, medium dense				698.5			
13	12	-	7	Grey Gravelly Silt LOAM, A-4, dense			
12	12	-	7	674.5			
8	10	-	18	Grey Dolomite Bedrock moderately to highly weathered, fine to medium grained, thin horizontal bedding with numerous horizontal fractures, slightly porous			
10	12	-	19	671.0			
12	16	-	20	Core Run 1 Recovery = 100% RQD = 11%			
10	12	-	19	End of Boring @ 78.5'			
12	14	-	20	661.0			
14	16	-	20	Grey Gravelly Silt LOAM, A-4, dense			
16	15	-	5	678.0			
15	26	-	5	678.0			

ROCK CORE

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DRAWN	- M. LANGE	REVISED	-
DESIGNED	- D. ATKINS	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- 5/3/2012	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS II  
NB EXIT RAMP (RAMP B) OVER CRYSTAL CREEK  
STRUCTURE NO. 056-0079

SHEET NO. SC28 OF SC29 SHEETS

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	553
CONTRACT NO. 60F72				
ILLINOIS FED. AID PROJECT				