

MIDLAND STANDARD ENGINEERING & TESTING, INC.

BORING LOG

SHEET 1 OF 1

PROJECT Algonquin Bypass Retaining Wall - IL. Route 31 DATE 3/16/09
 ROUTE FAP 339/ILL 31 BORED BY CD
 SECTION 96-00209-00-PV STATION 89+00 to 94+00 CHECKED BY WJW

Depth	N/6"	Qu	W	WATER LEVEL DURING DRILLING	Depth	N/6"	Qu	W
Ft		tsf	%	15.0'	Ft		tsf	%
GROUND SURFACE EL. 750.0				GROUND WATER AT COMPLETION 15.6'				
11-1/4" Bituminous Concrete over 7-3/4" Crushed Limestone Base Course				Grey SAND and GRAVEL, A-3 730.0				
Brown and Dark Grey SAND and GRAVEL, A-1: FILL	5	-	5	Grey Clay LOAM A-6 729.0	9	11	5.31	12
Brown Silty Clay LOAM, A-6 747.5	3				12			
	5	2.52	14		8	10	3.29	12
	8			End of Boring @ 25.0' 725.0	13			
	4	2.52	14					
	5							
	7	2.52	14					
	8							
	5	2.91	11					
Grey-Brown Clay LOAM, A-6(5)* 740.5	6							
	8							
	ST	3.5	13					
Grey	6							
	7	4.0	13					
	11							
	5	7.83	11					
few wet Sand seams	6							
	13							
	7	5.62	8					
	12							

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

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Ft		tsf	%	6.5'	Ft		tsf	%
GROUND SURFACE EL. 751.6				GROUND WATER AT COMPLETION 7.2'				
12-1/4" Bituminous Concrete over 6-3/4" Crushed Limestone Base Course				Grey Clay LOAM, A-6 731.6				
Brown and Dark Grey SAND and GRAVEL, A-1: FILL	5	-	10		11	12	4.26	12
Brown Silty Clay LOAM, A-6 749.1	3				14			
	2				10	13	5.04	12
	3	0.97	16		17			
Brown SAND and GRAVEL, A-1 746.6	5			End of Boring @ 25.0' 726.6				
	5							
	12							
	9							
	6	1.47	15					
Red-Brown Clay LOAM, A-6 742.1	2							
	5							
	10	3.57	12					
Grey Clay LOAM, A-6 739.6	10							
	7							
	10	8.60	10					
	17							
	9	9.96	11					
	11							
	13							
	8	4.07	12					
	15							
	21							

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Depth	N/6"	Qu	W	WATER LEVEL DURING DRILLING	Depth	N/6"	Qu	W
Ft		tsf	%	4.2'	Ft		tsf	%
GROUND SURFACE EL. 752.5				GROUND WATER AT COMPLETION 18.8'				
12" Bituminous Concrete over 5" Crushed Limestone Base Course				Grey Gravelly CLAY, A-2-4 732.5				
Dark Brown Clay LOAM, A-6 751.1	9			Grey Clay LOAM, A-6 732.0	8			
	4	2.79	13		10	2.71	13	
Dark Brown Silty SAND, A-2-4 749.5	2				11			
	2				10	4.07	13	
	6			End of Boring @ 25.0' 727.5				
Brown SAND (f), A-3 746.5	2							
	3							
	3							
Red-Brown Clay LOAM, A-6 744.5	3							
Cobble	6	0.97	17					
	14							
	12							
	14	0.78	13					
	8							
Grey-Brown Clay LOAM, A-6 739.5	10							
	13	5.62	11					
Grey	14							
	10							
	15	4.84	11					
	15							
	10							
	15	4.5+	6					
Grey Gravelly CLAY, A-2-4 733.5	12							
	16							
	16							

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

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS II
WALL A; IL RTE 31
STRUCTURE NO. 056-2507
 SHEET NO. WA9 OF WA9 SHEETS

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	593
CONTRACT NO. 60F72				
ILLINOIS FED. AID PROJECT				