

MIDLAND STANDARD ENGINEERING & TESTING, INC.
STRUCTURE FOUNDATION BORING LOG

PROJECT Algonquin Bypass STRUCTURE Retaining Wall C SHEET 1 OF 1
ROUTE FAP 339/ILL 31 DATE 7/13/10
SECTION 96-00209-00-PV STATION 124+25 to 126+20 BORED BY SPE
CHECKED BY WJW

Depth	N/6"	Qu	W	Water Surface EL.	Ground Water at Completion	Depth	N/6"	Qu	W
M (Ft)		tsf	%			M (Ft)		tsf	%
GROUND SURFACE EL. 743.8					WATER SURFACE EL. 6.1				
Dark Brown to Black Sandy LOAM, A-4: fill					GROUND WATER AT COMPLETION 7.1				
over					Grey Clay LOAM, A-6: very stiff				
Black Clay LOAM, A-7-6									
2			14			10		3.61	13
2						13		B	
4						15			
2			13			5	ST	1.46	12
2						25			
3						10		3.49	13
10			10			16		B	
14						23			
21						9		3.98	14
12			6			16		BS	
33						24			
22						30			
12			11			End of Boring @ 30' 713.8			
14									
20									
11			7						
12									
17									
12	4.5		12						
27	Qp								
21									
17			8						
12									
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 (%)

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

MIDLAND STANDARD ENGINEERING & TESTING, INC.
STRUCTURE FOUNDATION BORING LOG

PROJECT Algonquin Bypass STRUCTURE Retaining Wall C SHEET 1 OF 1
ROUTE FAP 339/ILL 31 DATE 10/14/10
SECTION 96-00209-00-PV STATION 124+25 to 126+20 BORED BY SPE
CHECKED BY WJW

Depth	N/6"	Qu	W	Water Surface EL.	Ground Water at Completion	Depth	N/6"	Qu	W
M (Ft)		tsf	%			M (Ft)		tsf	%
GROUND SURFACE EL. 755.0					WATER SURFACE EL. 16.5'				
Pavement Materials					GROUND WATER AT COMPLETION 16.8'				
Brown over Brown and Black Silty Clay LOAM: fill					AFTER _____ HOURS _____				
to Dark Grey to Grey Silt LOAM, A-6					Brown SAND and GRAVEL, A-1 735.0				
8		5.04	13			5			12
6		S				8			
6						11			
2		1.16	26			8		4.95	13
3		BS				12		BS	
4						10		4.86	13
5						7			
2		2.33	21			10		BS	
3		BS				4			
4						7		5.97	12
2			10			8		B	
3						10			
4						10			
10						30			
2			5			End of Boring @ 30' 725.0			
4									
5									
13			4						
14									
28									
12			11						
9									
7									
4			14						
6									
9									

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:
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S- Shear Failure
E- Estimated Value
P-Penetrometer

MIDLAND STANDARD ENGINEERING & TESTING, INC.
BRIDGE FOUNDATION BORING LOG

PROJECT IL. 31 - Algonquin Bypass BRIDGE IL. 31 over Crystal Creek SHEET 1 OF 2
ROUTE IL. Route 31 at IL. Route 62 DATE 12/2/08
SECTION _____ STATION 126+45 to 127+90 BORED BY SPE
CHECKED BY WJW

Depth	N/6"	Qu	W	Water Level During Drilling	Depth	N/6"	Qu	W
M (Ft)		tsf	%		M (Ft)		tsf	%
GROUND SURFACE EL. 740.0				WATER LEVEL DURING DRILLING 2.5'				
12" Black Silty CLAY/TOPSOIL				Rotary Mud Drilling, Hole Grouted at Completion				
Brown SAND (f-c) and GRAVEL, A-1, medium dense				Grey Clay LOAM A-6, very stiff to hard 720.0				
frequent Cobbles								
dense to very dense								
Boulder @ 12.0'-13.5'				Grey SAND (f-c) and GRAVEL, A-1, dense 708.7				
5			5		8		3.82	15
7					11		B	
9					17			
5			10		12		4.06	15
6					19		B	
8					25			
14			12		7		4.02	16
13					10		B	
24					18			
10			8		8			20
17					11			
28					17			
29					28			
15			12		7			11
20					18			
38					28			
50/3"					10			10
17			9		17			
30					23			
30					continued			
16			9					
20								
18								
17			9					
18								
20								

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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