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 12/2/08

ROUTE IL. Route 31 at IL. Route 62 | BORED BY SPE

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

COUNTY McHenry

BORING BB-10

STATION 126+42

OFFSET 48' R of CL

WATER LEVEL DURING DRILLING 2.5'

Rotary Mud Drilling, Hole Grouted at Completion

	Depth	N/6"	Qu tsf	W %
GROUND SURFACE EL. 740.0	Ft			
±12" Black Silty CLAY/TOPSOIL				
Brown SAND (f-c) and GRAVEL, A-1, medium dense 739.0		5 7 9	-	5
frequent Cobbles	5	7 6 8	-	10
Jense to very dense		14 13 24	-	12
	10	17 28 29	-	8
Boulder @ 12.0'-13.5'		20 38 50/3"	-	12
	15	17 30 30	-	9
		16 20 18	-	9
	20	17 16 18	-	9
Grey Clay LOAM A-6, very stiff to hard 720.0	Ft			
	25	8 11 17	3.82 B	15
		12 17 19	4.06 B	15
		7 10 18	4.02 B	16
Grey SAND (f-c) and GRAVEL, A-1, dense 708.7	30	8 11 17	-	20
	35	7 18 28	-	11
continued	40	10 17 23	-	10

N-Standard Penetration Test-
Blows per foot to drive 2 inch I.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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SHEET 2 OF 2

BORING BB-10

	Depth	N/6"	Qu tsf	W %
CONTINUED	Ft			
Grey SAND (f-m), trace Gravel, A-2, very dense 700.0				
	45	12 22 48	-	17
Grey SAND (f-m), A-3, medium dense 693.0				
	50	10 10 17	-	18
slightly dense	55	5 3 3	-	22
Grey SAND and GRAVEL, A-2, 683.0	60	10 50/5" -	-	8
Cobble @ 59.0'	65	8 10 10	-	5
Grey SAND and GRAVEL, A-1 675.0	Ft			
Light Blue-Grey weathered Dolomite Bedrock 673.5				
	70	50/1" - -	-	0.3
Light-Blue-Grey Dolomite Bedrock, slightly weathered, fine grained, medium horizontal bedding with frequent horizontal fractures, contains several white chert nodules 670.0				
Core Run 1 Recovery = 92.5% RQD = 68%	75	ROCK CORE		
End of Boring @ 80.0' 660.0	80			

CIVILTECH
450 E Devon Ave, Suite 300
Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

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 IV
ILLINOIS ROUTE 31 OVER CRYSTAL CREEK
STRUCTURE NO. 056-0077
SHEET NO. SA33 OF SA33 SHEETS

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	493
		CONTRACT NO. 60F72		
	ILLINOIS FED. AID PROJECT			

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5/2/2012