MIDLAND STANDARD ENGINEERING & TESTING, INC.

BRIDGE FOUNDATION BORING LOG

SHEET 1 OF 2

PROJECT IL. 31 - Algonquin Bypass
BRIDGE Ramp C over Crystal Creek
DATE 11/20/08
ROUTE IL. Route 31 - Ramp C (Southbound Entrance)
BORED BY SPE
SECTION
STATION 4+65 to 6+30
CHECKED BY WJW

COUNTY McHenry
BORING BB-6
STATION 6+30
OFFSET 6' L of CL

WATER LEVEL DURING DRILLING 6.5'
GROUND WATER AT COMPLETION 4.3'
Grouted at Completion

	Depth	N/6"	Qu tsf	W %
GROUND SURFACE EL. 741.7	Ft			
±15" Black Silty CLAY/TOPSOIL				
Dark Brown Sandy LOAM, A-4 740.5		2 2 3	-	18
Brown SAND (f-c) and GRAVEL, A-1, dense to medium dense numerous Cobbles 738.7	5	6 7 21	-	6
		9 12 12	-	6
Grey Clay LOAM, A-6, hard to very stiff 733.7	10	7 11 14	10.66 B	12
Boulder @ 12.0'		6 11 15	4.30 B	13
	15	7 9 13	3.56 B	14
		6 8 12	6.05 B	12
	20	6 9 13	2.95 B	13

	Depth	N/6"	Qu tsf	W %
Grey Clay LOAM, A-6, very stiff to hard 721.7	Ft			
	25	6 9 13	4.50 B	13
		6 10 13	3.91 B	12
Grey Sand seams @ 29.0'	30	10 13 13	4.0 P	11
frequent Grey Sand seams	35	7 13 9	3.10 B	12
Grey SAND (f-m), A-2 702.7 continued	40	8 9 10	7.60 B -	20 11

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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BRIDGE FOUNDATION BORING LOG

SHEET 2 OF 2

BORING BB-6

	Depth	N/6"	Qu tsf	W %
CONTINUED	Ft			
Grey SAND (f-m), A-2, medium dense 701.7	45	6 8 10	-	18
	50	8 10 12	-	12
End of Boring @ 50.0' 691.7				

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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
SB ENTR. RAMP (RAMP C) OVER CRYSTAL CREEK
STRUCTURE NO. 056-0080
SHEET NO. SD29 OF SD30 SHEETS

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	583

CONTRACT NO. 60F72
ILLINOIS FED. AID PROJECT

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