MIDLAND STANDARD ENGINEERING & TESTING, INC.

STRUCTURE FOUNDATION BORING LOG

SHEET 1 OF 1

PROJECT IL. Route 31 - Algonquin Bypass, Ramp C Retaining Wall
ROUTE IL. Route 31 at IL. Route 62
SECTION
STATION 4+15 to 4+65
DATE 12/12/08
BORED BY SPE
CHECKED BY WJW
COUNTY McHenry
BORING RW-3
STATION 4+39
OFFSET 24' L of CL

WATER LEVEL
DURING DRILLING 3.5'
GROUND WATER
AT COMPLETION 4.0'
Grouted at Completion

GROUND SURFACE EL. 742.5

Depth	N/6"	Qu tsf	W %
Ft			
	2 3 4	1.5 P	29
5	12 9 8	-	12
	6 9 15	-	13
10	9 6 11	2.09 B	13
	6 9 13	3.44 B	12
15	7 13 18	3.68 BS	13
	7 13 16	4.19 BS	13
20	9 13 20	3.84 BS	14
25	9 14 18	5.35 BS	12
	6 12 17	3.88 BS	14
	6 11 13	4.26 BS	13
30	7 10 14	3.68 BS	14

Black over Dark Brown Clay LOAM, A-7-6, stiff
Grey SAND and GRAVEL, A-1 739.5
Cobble @ 3.5'
Brown-Grey Clay LOAM, A-6, very stiff to hard 733.3
Cobble @ 15.0'
Brown-Grey Clay LOAM, A-6, very stiff to hard 722.5
End of Boring @ 30.0' 712.5

N-Standard Penetration Test-
Blows per foot to drive 2 inch
O.D. Split Spoon Sampler 2 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

SHEET 1 OF 1

PROJECT IL. Route 31 - Algonquin Bypass, Ramp C Retaining Wall
ROUTE IL. Route 31 at IL. Route 62
SECTION
STATION 6+30 to 6+90
DATE 11/18/08
BORED BY SPE
CHECKED BY WJW
COUNTY McHenry
BORING RW-4
STATION 6+59
OFFSET 10' R of CL

WATER LEVEL
DURING DRILLING 5.0'
GROUND WATER
AT COMPLETION 17.5'
Grouted at Completion

GROUND SURFACE EL. 741.7

Depth	N/6"	Qu tsf	W %
Ft			
5	3 12 20	-	18
	9 20 19	-	5
	9 17 18	-	9
10	6 8 9	3.88 B	12
	5 9 13	3.49 B	13
15	6 8 11	3.41 B	12
	7 11 15	4.53 B	13
20	25 11 10	3.71 B	12
25	6 8 10	2.74 B	14
	6 8 9	1.86 B	14
	6 8 10	2.64 B	13
30	7 9 11	2.71 B	13

Black Silty CLAY/TOPSOIL
Dark Brown Sandy LOAM, A-4 740.2
Brown SAND (f-c) and GRAVEL, A-1, dense 739.2
Grey LOAM A-6, very stiff to hard 733.0
Cobble @ 18.5'
Grey Clay LOAM A-6, very stiff 721.7
End of Boring @ 30.0' 711.7

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

SHEET 1 OF 1

PROJECT IL. Route 31 - Algonquin Bypass, Ramp C Retaining Wall
ROUTE IL. Route 31 at IL. Route 62
SECTION
STATION 6+30 to 6+90
DATE 11/18/08
BORED BY SPE
CHECKED BY WJW
COUNTY McHenry
BORING RW-5
STATION 6+66
OFFSET 24' L of CL

WATER LEVEL
DURING DRILLING 4.5'
GROUND WATER
AT COMPLETION 4.0'
Grouted at Completion

GROUND SURFACE EL. 741.5

Depth	N/6"	Qu tsf	W %
Ft			
	2 3 7	-	7
5	7 13 26	-	5
	28 29 23	-	10
10	6 14 27	-	10
	7 9 13	3.95 B	12
15	8 9 15	3.45 B	13
	7 8 13	3.84 B	13
20	5 7 11	2.25 B	14
25	6 9 12	3.17 B	14
	6 9 14	3.71 B	14
	7 10 12	3.83 B	14
30	7 12 13	2.64 B	13

±15" Black Silty CLAY/TOPSOIL
Dark Brown Sandy LOAM, A-4 740.2
Brown SAND and GRAVEL, A-1, dense 739.5
Boulder @ 6.5'
frequent Cobbles
Grey Clay LOAM, A-6, very stiff 731.7
Grey Clay LOAM A-6, very stiff 721.5
End of Boring @ 30.0' 711.5

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

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	584
		CONTRACT NO. 60F72		
	ILLINOIS	FED. AID PROJECT		

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