# 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 1/8/09
ROUTE IL. Route 31 at IL. Route 62
BORED BY SPE
SECTION
STATION 126+45 to 127+90
CHECKED BY WJK
COUNTY McHenry
BORING BB-8
STATION 127+89
OFFSET 29' R of CL

WATER LEVEL
DURING DRILLING 3.0'
GROUND WATER
AT COMPLETION
Grouted at Completion

| | Depth | N/6" | Qu tsf | W % |
|---|---|---|---|---|
| GROUND SURFACE EL. 739.6 | Ft | | | |
| Black Clay LOAM, A-7-6, stiff | | 1 2 3 | 1.0 P | 68 |
| Brown SAND and GRAVEL, A-1, medium dense to very dense 736.6 | 5 | 7 8 14 | - | 5 |
| | | 34 27 25 | - | 9 |
| | 10 | 26 50/3" | - | 9 |
| | | 8 10 13 | - | 8 |
| Grey Silt LOAM, A-4, medium dense 726.6 | | 7 9 11 | - | 14 |
| Brown-Grey Clay LOAM, A-6, hm to stiff 724.1 | 15 | 4 6 7 | 0.93 B | 15 |
| | | 4 5 6 | 1.78 B | 14 |
| Grey SAND, A-2 700.1 | 20 | | | |

| | Depth | N/6" | Qu tsf | W % |
|---|---|---|---|---|
| | Ft | | | |
| Brown and Grey Clay LOAM A-6, very stiff to hard 719.6 | 25 | 3 6 10 | 2.64 B | 14 |
| | | 4 8 11 | 3.17 B | 13 |
| | | 7 10 14 | 3.95 B | 14 |
| | 30 | 7 11 16 | 3.52 B | 13 |
| | 35 | 9 13 17 | 4.22 B | 13 |
| | 40 | 3 3 4 | 3.0 P - | 13 |

N-Standard Penetration Test-
Blows per foot to drive 2 inch
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

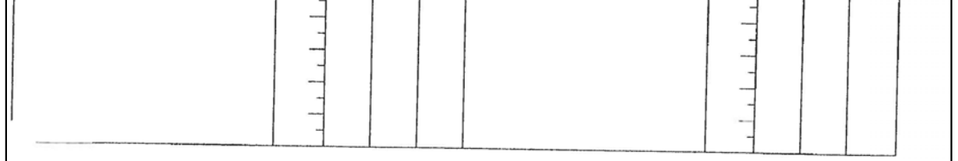
# MIDLAND STANDARD ENGINEERING & TESTING, INC.

## BRIDGE FOUNDATION BORING LOG

SHEET 2 OF 2

BORING BB-8

| | Depth | N/6" | Qu tsf | W % |
|---|---|---|---|---|
| CONTINUED | Ft | | | |
| Grey SAND, A-2, slightly to medium dense 699.6 | 45 | 6 7 11 | - | 18 |
| End of Boring @ 45.0' 694.6 | | | | |




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 II**
**ILLINOIS ROUTE 31 OVER CRYSTAL CREEK**
**STRUCTURE NO. 056-0077**
SHEET NO. SA31 OF SA33 SHEETS

| O.R. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0003 | 18A-2 | MCHENRY | 825 | 491 |
| | | CONTRACT NO. 60F72 | | |
| | ILLINOIS FED. AID PROJECT | | | |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