Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Idlewild Court - Suite 204
Naperville, Illinois 60565
(630) 325-5988

GSI Job No. 10025

# SOIL BORING LOG

Page 1 of 3

Date 1/31/13

ROUTE FAP 373 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY KD

SECTION 2013-038B-R LOCATION NW 1/4, SEC. 13, TWP. T38N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. 016-0488
Station 22+90.24

BORING NO. SB-62
Station 21+78
Offset 60.70ft Left
Ground Surface Elev. 626.40 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|
| 16.0" CONCRETE | | | |
| 625.07 | | | |
| CRUSHED STONE-loose | 3 | | |
| | 3 | | 5 |
| 623.40 | 3 | | |
| CLAY LOAM-dark brown & gray spotted black-soft to very stiff (Fill) | 3 | | |
| | 3 | 0.5 | 12 |
| -5 | 9 | P | |
| | 5 | | |
| | 4 | 0.4 | 18 |
| | 4 | B | |
| | 3 | | |
| | 3 | 1.2 | 23 |
| -10 | 6 | B | |
| | 5 | | |
| | 4 | 0.6 | 19 |
| | 6 | B | |
| | 3 | | |
| | 5 | 1.4 | 18 |
| -15 | 7 | B | |
| | 2 | | |
| | 6 | 0.6 | 26 |
| | 6 | B | |
| | 3 | | |
| | 4 | 0.7 | 30 |
| -20 | 6 | B | |

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|
| CLAY LOAM-dark brown & gray spotted black-soft to very stiff (Fill) *(continued)* | | | |
| | 3 | | |
| | 6 | | 28 |
| | 9 | | |
| | 4 | | |
| | 8 | 1.0 | 20 |
| -25 | 9 | P | |
| | 3 | | |
| | 5 | 1.4 | 15 |
| | 8 | B | |
| | 6 | | |
| | 7 | 1.3 | 19 |
| -30 | 8 | P | |
| | 7 | | |
| | 7 | 2.4 | 19 |
| -35 | 11 | S | |
| | 4 | | |
| | 7 | 1.2 | 16 |
| -40 | 11 | B | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

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| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|
| CLAY LOAM-dark brown & gray spotted black-soft to very stiff (Fill) *(continued)* | | | |
| 584.40 | | | |
| ORGANIC SILTY CLAY-gray-medium stiff | 1 | | |
| | 2 | 0.9 | 54 |
| -45 | 14 | B | |
| 579.40 | | | |
| CLAY LOAM-gray-hard | 11 | | |
| | 20 | 9.8 | 14 |
| -50 | 34 | S | |
| | 34 | 9.8 | 9 |
| -55 50/5" | | S | |
| 569.40 | | | |
| SILT-gray-dense to very dense | 16 | | |
| | 33 | | 14 |
| -60 33 | | | |

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|
| SILT-gray-dense to very dense *(continued)* | | | |
| | 15 | | |
| | 20 | | 15 |
| -65 | 35 | | |
| | 14 | | |
| | 17 | | 21 |
| -70 | 30 | | |
| 553.40 | | | |
| COBBLES & BOULDERS-very dense | 50/0" | | |
| -75 | | | |
| | 27 | | |
| | 30 | | 5 |
| -80 50/2" | | | |

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| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|
| COBBLES & BOULDERS-very dense *(continued)* | | | |
| 541.90 | | | |
| Borehole continued with rock coring. | | | |
| -85 | | | |
| -90 | | | |
| -95 | | | |
| -100 | | | |

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benesch
engineers · scientists · planners
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10093

| | | | | | |
|---|---|---|---|---|---|
| FILE NAME = 016-0488-60J16-031-Soil Boring Logs 1 of 6.dgn | USER NAME = tjanicke | DESIGNED - CMK | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | BORING LOGS (1 OF 6) STRUCTURE NO. 016-0488 |
| | | CHECKED - JAW | REVISED - | | |
| | PLOT SCALE = | DRAWN - CMK | REVISED - | | SHEET NO. SH31 OF SH36 SHEETS |
| | PLOT DATE = 12/20/2013 | CHECKED - JAW | REVISED - | | |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 373 | 2013-038B-R | COOK | 821 | 769 |
| | | CONTRACT NO. 60J16 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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