Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

# SOIL BORING LOG



Date 8/2/11

ROUTE FAI 70 (I 70) DESCRIPTION FAS 2720 (Interstate Drive) over I-70 at St. Elmo Interchange LOGGED BY E. Sandschafer

SECTION (26-5,26-5-1,25-1-1)R LOCATION NW 1/4, SEC. 34, TWP. 7 N, RNG. 3 E, 3 PM

COUNTY Fayette DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 026-0055
Station 50+00

BORING NO. 1 (S Abut)
Station 48+56
Offset 7.0ft Lt
Ground Surface Elev. 634.79 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
▽ First Encounter Dry ft
▼ Upon Completion Dry ft
▼ After 48 Hrs. 609.3 ft

| DEPTH (ft) | BLOWS /6" | UCS Qu (tsf) | MOIST (%) | Description |
|---|---|---|---|---|
| | | | | 2.5" asphalt on 11" concrete pavement. |
| | | | | 633.69 |
| | | | | Stiff, damp, gray, SILTY CLAY, embankment. |
| | 1 | | | |
| | 2 | 1.5 | 23 | |
| | 2 | B | | |
| | | | | 630.29 |
| -5 | 2 | | | Stiff, damp, gray marbled brown, CLAY, embankment. |
| | 2 | 1.9 | 27 | |
| | 3 | B | | |
| | 2 | | | |
| | 3 | 1.1 | 22 | |
| | 4 | B | | |
| -10 | 1 | | | |
| | 3 | 1.2 | 20 | Gray. |
| | 4 | B | | |
| | 2 | | | |
| | 2 | 1.5 | 18 | |
| | 4 | B | | |
| -15 | 1 | | | |
| | 3 | 1.1 | 19 | Gray. |
| | 3 | B | | |
| | 1 | | | |
| | 3 | 1.5 | 23 | |
| | 4 | B | | |
| | | | | 614.79 |
| -20 | 1 | | | |
| | | | | Medium to stiff, damp, gray mottled brown, CLAY, embankment. |
| | 2 | 1.0 | 21 | |
| | 2 | B | | |
| | | | | 611.49 |
| | 2 | | | Black, CINDERS w/ petroleum odor. |
| | | | | 610.29 |
| -25 | 3 | | | Very stiff, damp, gray, CLAY. |
| | 5 | 2.4 | 25 | ▼ |
| | 6 | B | | |
| | | | | 607.79 |
| | 1 | | | Medium, damp, reddish brown marbled gray, SILTY CLAY w/ trace Sand. |
| | 2 | 0.7 | 20 | |
| | 3 | B | | |
| | | | | 605.29 |
| -30 | 1 | | | Medium, damp, reddish brown marbled gray, CLAY. |
| | 1 | 0.8 | 21 | |
| | 2 | B | | |
| | | | | 600.29 |
| -35 | 3 | | | Brown, SILTY LOAM. |
| | | | | 599.79 |
| | 11 | 3.5 | 12 | Very stiff, damp, brown & gray layers, SANDY CLAY LOAM TILL. |
| | 18 | B | | |
| | | | | 595.29 |
| -40 | 30 | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H – Sampler Advanced By Weight of Hammer, W.O.P – Advanced by Weight of Pipe, B.S. – Before Seating
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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Stream Bed Elev. N/A ft

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▽ First Encounter Dry ft
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| DEPTH (ft) | BLOWS /6" | UCS Qu (tsf) | MOIST (%) | Description |
|---|---|---|---|---|
| | 43 | | 12 | Very dense, damp, reddish brown, SANDY CLAY TILL. (continued) |
| | 50/3" | | | 593.99 |
| | | | | Extent of exploration. |
| | | | | Benchmark: CB-3 chiseled square on top bridge curb, SW corner of existing SN 026-0055 = 635.63' elevation. |
| -45 | | | | |
| -50 | | | | |
| -55 | | | | |
| -60 | | | | |

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V3 Companies of Illinois Ltd.
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

| | | | |
|---|---|---|---|
| USER NAME = | DESIGNED - WJV | REVISED - | |
| | CHECKED - CJB | REVISED - | |
| PLOT SCALE = | DRAWN - WJV | REVISED - | |
| PLOT DATE = 12-22-2011 | CHECKED - CJB | REVISED - | |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**BORING 1**
**STRUCTURE NO. 026-0055**
SHEET NO. 23 OF 24 SHEETS

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 2720 | (26-5,26-5-1,26-1-1)R | Fayette | 92 | 90 |
| | | CONTRACT NO. 74469 | | |
| | ILLINOIS FED. AID PROJECT | | | |