Illinois Department of Transportation

## SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
IDOT

Page 1 of 1

Date 4/12/10

ROUTE FAU 2578 (IL 53) DESCRIPTION Near US Route 20 LOGGED BY M. Dell

SECTION 532B LOCATION SW 1/4, SEC. 18, TWP. 40 N, RNG. 11 E, 3rd PM

COUNTY Cook DRILLING METHOD CME 750; 3.25" ID HSA HAMMER TYPE CME Automatic

STRUCT. NO.
Station

BORING NO. TW-1
Station 112+02
Offset 47.00ft Rt
Ground Surface Elev. 726.44 ft

Surface Water Elev. 721.76 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 706.4 ft ▼
Upon Completion 715.9 ft ▽
After ___ Hrs. ft

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| Topsoil (Approx. 4 inches) | 726.11 | | | | |
| Brown SAND and GRAVEL | | | 2 / 3 / 5 | 2.8 P | 7 |
| Very Stiff Dark Gray SILTY CLAY | 723.44 | | 1 / 2 / 2 | 1.3 P | 8 |
| Medium Stiff to Stiff Gray and Brown SILTY CLAY Sample 2 - Partially disturbed; pushed rock | 721.44 | -5 | 0 / 1 / 2 | 0.5 P | 26 |
| With occasional sand seams | 716.94 | | 3 / 4 / 5 | 2.2 B | 30 |
| Stiff to Very Stiff Brown and Gray CLAY, trace sand and gravel ▽ | | -10 | 2 / 4 / 5 | 3.1 B | 20 |
| Grades to gray | | | 3 / 4 / 5 | 3.0 B | 17 |
| Silty sand seam at 13.5 ft | | -15 | 2 / 2 / 3 | 1.8 P | 16 |
| Silty sand seam at 18.5 ft | 706.94 | -20 | 2 / 4 / 5 | 2.0 B | 18 |
| Stiff Gray CLAY LOAM, with sand seams *(continued)* | | | 2 / 2 / 4 | 1.8 B | 20 |
| Medium Stiff to Stiff gray CLAY, with sand, trace gravel | 703.94 | | 1 / 2 / 3 | 0.8 P | 17 |
| Grades to trace sand | | -25 | 2 / 3 / 4 | 1.5 B | 18 |
| End of Boring | 700.19 | -30 | | | |
| | | -35 | | | |
| | | -40 | | | |

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)

S:\GEOTECH PROGRAMS\GINT\PROJECTS\COOK\IL 53 TEMP SHEET PILE WALL.GPJ 4/27/10

Illinois Department of Transportation
Division of Highways
IDOT

## SOIL BORING LOG

Page 1 of 1

Date 3/31/10

ROUTE FAU 2578 (IL 53) DESCRIPTION Near US Route 20 LOGGED BY M. Esposito

SECTION 532B LOCATION SW 1/4, SEC. 18, TWP. 40 N, RNG. 11 E, 3rd PM

COUNTY Cook DRILLING METHOD CME 750; 3.25" ID HSA HAMMER TYPE CME Automatic

STRUCT. NO.
Station

BORING NO. TW-2
Station 112+97
Offset 46.00ft Rt
Ground Surface Elev. 727.20 ft

Surface Water Elev. 721.76 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 710.2 ft ▼
Upon Completion ft
After 24 Hrs. 722.2 ft ▽

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| Dense Brown SAND and GRAVEL, with clay and organics (Fill) | | | 14 / 17 / 17 | | 4 |
| Medium Stiff Black SILTY CLAY, trace to with organics ▽ | 722.70 | -5 | 2 / 4 / 4 | 1.0 P | 37 |
| Grades with some gray | | | 0 / 0 / 2 | 0.8 B | 29 |
| Medium stiff Gray ORGANIC CLAY | 718.45 | -10 | 0 / 0 / 0 | 0.8 B | 57 |
| Very Soft Gray CLAY | 715.20 | | 0 / 1 / 1 | <0.25 P | 25 |
| Medium Stiff Gray LOAM Approx. 2-inch thick gray fine sand seam at 15.5 ft | 712.20 | -15 | 0 / 0 / 0 | 0.6 B | 25 |
| Loose Gray Coarse SAND | 710.20 ▼ | | 2 / 4 / 3 | | 14 |
| | 707.20 | -20 | | | |
| *Note:* Sand entered HSA at a depth of about 20 ft. Boring terminated due to the inability to drill with water. End of Boring | | -25 | | | |
| | | -30 | | | |
| | | -35 | | | |
| | | -40 | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BBS, from 137 (Rev. 8-99)

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## SOIL BORING LOG

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Date 3/8/10

ROUTE FAU 2578 (IL 53) DESCRIPTION Near US Route 20 LOGGED BY M. Dell

SECTION 532B LOCATION SW 1/4, SEC. 18, TWP. 40 N, RNG. 11 E, 3rd PM

COUNTY Cook DRILLING METHOD CME 750; 3.25" ID HSA HAMMER TYPE CME Automatic

STRUCT. NO.
Station

BORING NO. TW-2A
Station 112+92
Offset 46.00ft Rt
Ground Surface Elev. 727.20 ft

Surface Water Elev. 721.76 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter NA ft
Upon Completion NA ft
After ___ Hrs. ft

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| Boring TW-2A was drilled at an offset of about 5 ft south of Boring TW-2 in order to gain additional deeper subsurface information. Sampling in Boring TW-2A began at 20 feet. | | | | | |
| Loose Gray SILTY LOAM, with gravel | 706.20 | | 1 / 3 / 2 | 1.3 P | 18 |
| Stiff Gray CLAY LOAM | 704.70 | | 4 / 5 / 6 | 2.5 P | 18 |
| Very Stiff Gray CLAY, with sand, trace gravel | | -5 | 3 / 5 / 7 | 2.5 P | 17 |
| With occasional sand seams Grades to trace sand | 701.20 | -25 | 3 / 4 / 4 | 2.0 B | 25 |
| Stiff Gray and Brown CLAY LOAM, with occasional silt seams | 699.70 | | 3 / 4 / 4 | 2.0 P | 17 |
| Stiff to Very Stiff Gray CLAY, trace sand and gravel | | -10 | 2 / 4 / 7 | 2.0 P | 18 |
| With occasional sand seams | | -30 | 2 / 5 / 5 | 2.3 P | 17 |
| Grades to with sand | | -15 | | | |
| | 707.20 | -20 | | | |
| | | -35 | | | |
| | | -40 | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BBS, from 137 (Rev. 8-99)

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| | |
|---|---|
| DESIGNED | - N/A |
| CHECKED | - N/A |
| DRAWN | - A.Y. |
| CHECKED | - R.L.D. |

PATRICK ENGINEERING
PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

## BORING LOGS

| SHEET NO. | F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| S24 OF S25 | 2578 | 532B | DUPAGE | 781 | 603 |
| | | | CONTRACT NO. 60477 | | |
| | 12/3/2010 | ILLINOIS | FED. AID PROJECT | | |

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