**ILLINOIS DEPARTMENT OF TRANSPORTATION**
**District Nine Materials**

**Bridge Foundation Boring Log**
**Sheet 1 of 2**

FAP 312 (IL Route 3) Over Matusky Creek

**Route:** FAP 312 (IL Rte **Structure Number:** 039-2002 **Date:** 6/21/2010
**Section** 123 **Bored By:** R Moberly
**County:** Jackson **Location:** 4.8 mi South of Randolph County **Checked By:** R Graeff

**Boring No** 2-S
**Station** 370+40
**Offset** 14' Lt CL
**Ground Surface** 384.3 Ft

**Surf Wat Elev:** 375.7
**Ground Water Elevation**
**when Drilling** 364.8
**At Completion**
**At:** **Hrs:**

| Description | DEPTH | BLOWS | Qu tsf | W% |
|---|---|---|---|---|
| Crushed aggregate | | | | |
| 383.3 | | | | |
| Stiff, moist, brown, Silty Clay Loam A-4 | | 2 | | |
| | | 5 | 1.2S | 18 |
| | | 6 | | |
| 379.8 | | | | |
| Medium to soft, moist to v moist, brown, Silt Loam A-4 | 5.0 | 1 | | |
| | | 2 | 0.5S | 21 |
| | | 1 | | |
| | | WH | | |
| | | 1 | 0.4S | 19 |
| | | WH | | |
| | 10.0 | 1 | | |
| | | 1 | 0.3S | 17 |
| | | 1 | | |
| 372.3 | | | | |
| Medium, very moist, brown, Silty Clay Loam A-6 | | 1 | | |
| | | 2 | 0.7B | 21 |
| | | 3 | | |
| | 15.0 | 1 | | |
| | | 2 | 0.6B | 24 |
| | | 3 | | |
| 367.3 | | | | |
| Very soft, wet, brown and grey, Silty Clay Loam A-6 with Sand seams | | WH | | |
| | | WH | 0.1B | 26 |
| | | 1 | | |
| | 20.0 | WH | | |
| | | WH | 0.1E | 27 |
| | | WH | | |
| 362.3 | | | | |
| Stiff to medium, very moist, brown, Silty Clay Loam A-6 | | WH | | |
| | | 2 | 1.0B | 24 |
| | | 2 | | |
| 359.8 | | | | |
| | 25.0 | WH | | |

| Description | DEPTH | BLOWS | Qu tsf | W% |
|---|---|---|---|---|
| Soft, very moist, brown mottled grey, Silty Clay Loam A-6 | | 1 | 0.4B | 28 |
| | | 1 | | |
| | | WH | | |
| | | WH | 0.3B | 28 |
| | | 1 | | |
| 354.8 | | | | |
| Very soft, very moist, brown mottled grey, Silty Clay Loam A-6 | 30.0 | WH | | |
| | | WH | 0.1B | 32 |
| | | WH | | |
| | | WH | | |
| | | WH | 0.1E | 28 |
| | | WH | | |
| 349.8 | | | | |
| Very soft, very moist, brown mottled grey, Silty Clay Loam A-6 with sand layers | 35.0 | WH | | |
| | | 2 | 0.1B | 28 |
| | | 1 | | |
| 347.3 | | | | |
| Loose, wet, brown, Sand with Gravel and Clay | | 2 | | |
| | | 4 | | 21 |
| | | 2 | | |
| 64% Sand | | | | |
| 6% Silt | | | | |
| 4% Clay | 40.0 | 1 | | |
| 26% Gravel | | 3 | | |
| | | 1 | | |
| 339.8 | | | | |
| Medium to soft, very moist, grey, Silt Loam A-4 with Clay layers | 45.0 | 1 | | |
| | | 4 | 0.5B | 26 |
| | | 4 | | |
| | 50.0 | 1 | | |

N-Std Pentr Test: 2" OD Sampler,140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

**Sheet 2 of 2**

**Route:** FAP 312 (IL Rte 3) **Date:** 6/21/2010
**Section:** 123
**County:** Jackson

**Boring No:** 2-S
**Station:** 370+40
**Offset:** 14' Lt CL
**Ground Surface:** 384.3 Ft

| Description | DEPTH | BLOWS | Qu tsf | W% |
|---|---|---|---|---|
| Medium to soft, very moist, grey, Silt Loam A-4 with Clay layers | | 3 | 0.9B | 30 |
| | | 3 | | |
| 331.8 | | | | |
| Stiff, moist, grey, Clay A7-6 | | | | |
| | 55.0 | 7 | | |
| | | 16 | 1.5B | 28 |
| | | 25 | | |
| 327.3 | | | | |
| Stiff, moist, grey, Silty Clay to Clay A7-6 | | | | |
| | 60.0 | 2 | | |
| | | 4 | 1.6B | 30 |
| | | 6 | | |
| 319.8 | | | | |
| Dense, moist, grey and brown, broken Sandstone with some Clay | 65.0 | 8 | | |
| | | 20 | | |
| | | 20 | | |
| 317.3 | | | | |
| Stiff, moist, grey, Clay to Clay Loam A7-6 | | | | |
| | 70.0 | 1 | | |
| | | 3 | 1.2B | 22 |
| | | 3 | | |
| 312.3 | | | | |
| Hard, dry, grey, Limestone (Refusal) 311.3 | | 100/0.5" | | |
| Bottom of hole = 72.5 feet | | | | |
| | 75.0 | | | |

| Description | DEPTH | BLOWS | Qu tsf | W% |
|---|---|---|---|---|
| Bottom of hole = 72.5 feet | | | | |
| Free water observed at 19.5 feet | | | | |
| Elevation referenced to BM @ SW headwall; Elev.= 384.5 feet | | | | |
| To convert "N" values to "N60" multiply by 1.25 | 80.0 | | | |
| | | | | |
| | | | | |
| | | | | |
| | 85.0 | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | 90.0 | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | 95.0 | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | 100.0 | | | |

N-Std Pentr Test: 2" OD Sampler,140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)