

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SOIL BORING LOG

Page 1 of 2

Date 3/26/10

ROUTE FAU 2917 DESCRIPTION Cottage Grove Over I-94 (Bishop Ford Freeway) LOGGED BY RJC
SECTION 066-1314-CF LOCATION North Abutment (East Side), SEC. 10, TWP. 37N, RNG. 14E, 3rd PM
Latitude N41° 42' 49.9", Longitude W87° 36' 17.89"
COUNTY Cook DRILLING METHOD HSA HAMMER TYPE AUTO

| STRUCT. NO. Station | BORING NO. Station | DEPTH (ft) | BL (ft) | UCS (tsf) | MOIST (%) | Surface Water Elev. ft | Stream Bed Elev. ft | Groundwater Elev.: First Encounter Upon Completion After | DESCRIPTION | DEPTH (ft) | BL (ft) | UCS (tsf) | MOIST (%) |
|----------------------------------|--|---------------|------------|--------------|--------------|---------------------------|------------------------|---|--|---------------|------------|--------------|--------------|
| 016-2119 (Existing) 505+00.00 | B-1 103+23.90 (Cottage Grove) 32.00ft RT 594.40 | | | | | None | None | None | Black and Brown, Dry SANDY CLAY (fill) with organics, trace gravel 583.15 | | | | |
| | | 3 | | | | | | | Gray and Brown, Dry SAND and gravel (fill), with clay 572.20 | 4 | 4.0 | 17 | |
| | | 3 | | | | | | | Very Stiff Gray, Dry SILT 570.00 | 6 | 4.7 | 18 | |
| | | 4 | | | | | | | Hard to Very Stiff Gray, Dry SILTY CLAY LOAM, trace gravel 588.40 | 8 | 5 | 14 | |
| | | 2 | | | | | | | 1" Lens of SILT at 27.5' | 10 | 8.2 | 13 | |
| | | 3 | | | | | | | Very Stiff to Hard Gray, Dry SILTY CLAY LOAM, trace gravel 575.90 | 17 | 9.2 | 11 | |
| | | 2 | | | | | | | | 19 | 5 | 11 | |
| | | 2 | | | | | | | Stiff Gray and Brown, Moist SILTY CLAY LOAM, trace gravel 577.90 | 20 | 8.9 | 10 | |
| | | 3 | 1.9 | 22 | | | | | Obstruction encountered at 19.5'. Relocated boring 10' north and blind drilled to 18.5'. 575.90 | 20 | 8 | 11 | |
| | | 5 | 2.9 | 19 | | | | | 6" Layer of Gray, Dry, SILT at 38.5' 555.90 | 20 | 8 | 11 | |
| | | 8 | B | | | | | | | 20 | 16 | 5 | 11 |

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, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 2

Date 3/26/10

ROUTE FAU 2917 DESCRIPTION Cottage Grove Over I-94 (Bishop Ford Freeway) LOGGED BY RJC
SECTION 066-1314-CF LOCATION North Abutment (East Side), SEC. 10, TWP. 37N, RNG. 14E, 3rd PM
Latitude N41° 42' 49.9", Longitude W87° 36' 17.89"
COUNTY Cook DRILLING METHOD HSA HAMMER TYPE AUTO

| STRUCT. NO. Station | BORING NO. Station | DEPTH (ft) | BL (ft) | UCS (tsf) | MOIST (%) | Surface Water Elev. ft | Stream Bed Elev. ft | Groundwater Elev.: First Encounter Upon Completion After | DESCRIPTION | DEPTH (ft) | BL (ft) | UCS (tsf) | MOIST (%) |
|----------------------------------|--|---------------|------------|--------------|--------------|---------------------------|------------------------|---|--|---------------|------------|--------------|--------------|
| 016-2119 (Existing) 505+00.00 | B-1 103+23.90 (Cottage Grove) 32.00ft RT 594.40 | | | | | None | None | None | Hard Gray, Dry SILTY CLAY LOAM, trace gravel (continued) | | | | |
| | | 7 | | | | | | | Very Hard Gray, Dry SILT 550.00 | 18 | 7.6 | 12 | |
| | | 4 | | | | | | | Hard Gray, Dry SILT, trace gravel 545.90 | 26 | 13.0 | 13 | |
| | | 9 | | | | | | | Very Hard Gray, Dry SILTY CLAY LOAM, trace gravel 2" Lens of Gray, Dry, SILT at 49.5' 540.90 | 45 | 38 | 8.0 | 11 |
| | | 17 | 9.2 | 11 | | | | | Wet at 69.5' End of Boring 524.40 | 68 | 68 | P | |
| | | 7 | | | | | | | Very Hard Gray, Dry SILT 540.90 | 17 | 13.0 | 15 | |
| | | 15 | | | | | | | Very Hard Gray, Dry SILTY CLAY LOAM, trace gravel 535.90 | 30 | 15 | 10 | |

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SOIL BORING LOG

Page 1 of 2

Date 3/29/10

ROUTE FAU 2917 DESCRIPTION Cottage Grove Over I-94 (Bishop Ford Freeway) LOGGED BY RJC
SECTION 066-1314-CF LOCATION North Abutment (Center), SEC. 10, TWP. 37N, RNG. 14E, 3rd PM
Latitude N41° 42' 49.57", Longitude W87° 36' 18.22"
COUNTY Cook DRILLING METHOD HSA HAMMER TYPE AUTO

| STRUCT. NO. Station | BORING NO. Station | DEPTH (ft) | BL (ft) | UCS (tsf) | MOIST (%) | Surface Water Elev. ft | Stream Bed Elev. ft | Groundwater Elev.: First Encounter Upon Completion After | DESCRIPTION | DEPTH (ft) | BL (ft) | UCS (tsf) | MOIST (%) |
|----------------------------------|----------------------------------|---------------|------------|--------------|--------------|---------------------------|------------------------|---|---|---------------|------------|--------------|--------------|
| 016-2119 (Existing) 505+00.00 | B-2 103+18.80 (Cottage Grove) | | | | | None | None | None | 5" Asphalt Pavement, 6" Aggregate Base 593.78 | | | | |
| | | 17 | | | | | | | Drilled through concrete obstruction at 11" Brown and Gray, Dry Clay, sand, gravel, cinders, organics (fill) 591.20 | 3 | | | |
| | | 4 | 3.9 | 19 | | | | | Very Stiff Brown and Gray, Dry SILTY CLAY LOAM, trace gravel 588.70 | 4 | 3.9 | 18 | |
| | | 3 | | | | | | | 3" Lens of Gray, Wet, SILT at 26' | 3 | 3.4 | 20 | |
| | | 2 | | | | | | | Very Stiff to Hard Gray, Dry to Moist SILTY CLAY LOAM, trace gravel 585.20 | 3 | 2.1 | 19 | |
| | | 3 | 2.1 | 19 | | | | | | 4 | 3.5 | 13 | |
| | | 2 | | | | | | | | 6 | | | |
| | | 3 | 3.4 | 18 | | | | | | 8 | 6.3 | 12 | |
| | | 4 | B | | | | | | | 11 | 11 | S | |
| | | 5 | 3.2 | 18 | | | | | | 6 | | | |
| | | 6 | B | | | | | | | 11 | 7.0 | 11 | |
| | | 2 | | | | | | | | 13 | S | | |
| | | 4 | 4.2 | 20 | | | | | | 13 | 13 | S | |
| | | 7 | B | | | | | | | 20 | | | |

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| | |
|----------|-----|
| DESIGNED | EV |
| CHECKED | PC |
| DRAWN | JCP |
| CHECKED | JPO |

SOIL BORING LOG 1
STRUCTURE NO. 016-2119

| | | | | | | |
|--|---------------|--------------------|-----------------|-------------|------------------|---------------------------|
| 800 WEST FULTON STREET CHICAGO, ILLINOIS 60661-1259 TEL 312 454 9100 FAX 312 559 1217 WEB www.epsteinglobal.com | SHEET NO. S47 | F.A.I. RTE. 94 | SECTION 1314B-1 | COUNTY COOK | TOTAL SHEETS 110 | SHEET NO. 83 |
| | S52 SHEETS | CONTRACT NO. 60F65 | | | | ILLINOIS FED. AID PROJECT |

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