

SB-125

SB-125 Run-1&2

SB-125 Run-3&4

| SOIL BORING LOG | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| PAGE 4 of 4 | | | | | DATE 5/5/2009 | | | | |
| LOGGED BY DR | | | | | GSI JOB No. 08201 | | | | |
| ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08 | | | | | SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3 | | | | |
| COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic | | | | | STRUCT. NO. 082-0329 | | | | |
| STATION: -- | | | | | BORING NO. SB-125 | | | | |
| Station: 1680+85 | | | | | Station: 1680+85 | | | | |
| Offset: 46.5' Right | | | | | Offset: 46.5' Right | | | | |
| Ground Surface Elev. 417.2 | | | | | Ground Surface Elev. 417.2 | | | | |
| Surface Water Elev. n/a | | | | | Stream Bed Elev. n/a | | | | |
| Groundwater Elevation: | | | | | First Encounter n/a | | | | |
| Upon Completion n/a | | | | | After 24 Hrs. 395.2 | | | | |
| Recovery=100.0% R.Q.D.=90.0% 296.7 | | | | | RUN 1 | | | | |
| RUN 2 (-120.5' to -123.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -121.3', -121.8' & -122.5'. Recovery=95.0% R.Q.D.=81.7% 293.7 | | | | | RUN 2 | | | | |
| RUN 3 (-123.5' to -127.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -124.8', -125.5', -125.6', -125.7', -125.9', -126.0', -126.1', -126.8' & -126.9'. Recovery=97.5% R.Q.D.=62.5% 289.7 | | | | | RUN 3 | | | | |
| RUN 4 (-120.5' to -123.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout. Recovery=100.0% R.Q.D.=25.0% 286.7 | | | | | RUN 4 | | | | |
| End Of Boring @ -130.5' Hollow Stem Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer 10" Of 4" Casing Used | | | | | | | | | |

| ROCK CORE LOG | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| PAGE 1 of 2 | | | | | DATE 5/5/2009 | | | | |
| LOGGED BY DR | | | | | GSI JOB No. 08201 | | | | |
| ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08 | | | | | SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3 | | | | |
| COUNTY St. Clair CORING METHOD Rotary Wash | | | | | STRUCT. NO. 082-0329 | | | | |
| STATION: -- | | | | | BORING NO. SB-125 | | | | |
| Station: 1680+85 | | | | | Station: 1680+85 | | | | |
| Offset: 46.5' Right | | | | | Offset: 46.5' Right | | | | |
| Ground Surface Elev. 417.2 | | | | | Ground Surface Elev. 417.2 | | | | |
| CORING BARREL TYPE & SIZE NX Double Swivel-10 ft | | | | | Core Diameter 2.0 in | | | | |
| Top of Rock Elev. 301.4 | | | | | Begin Core Elev. 301.7 | | | | |
| RUN 1 (-115.5' to -120.5') (-115.5' to -115.8') Cobbles (-115.8' to -120.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -116.4', -116.7', -117.2', -117.7', -118.1', -119.6' & -119.7'. 1/2" clay parting @ -120.5'. -120.5' | | | | | 301.7 301.4 | | | | |
| RUN 2 (-120.5' to -123.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -121.3', -121.8' & -122.5'. -25.5' | | | | | 296.7 | | | | |

| ROCK CORE LOG | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| PAGE 2 of 2 | | | | | DATE 5/5/2009 | | | | |
| LOGGED BY DR | | | | | GSI JOB No. 08201 | | | | |
| ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08 | | | | | SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3 | | | | |
| COUNTY St. Clair CORING METHOD Rotary Wash | | | | | STRUCT. NO. 082-0329 | | | | |
| STATION: -- | | | | | BORING NO. SB-125 | | | | |
| Station: 1680+85 | | | | | Station: 1680+85 | | | | |
| Offset: 46.5' Right | | | | | Offset: 46.5' Right | | | | |
| Ground Surface Elev. 417.2 | | | | | Ground Surface Elev. 417.2 | | | | |
| CORING BARREL TYPE & SIZE NX Double Swivel-10 ft | | | | | Core Diameter 2.0 in | | | | |
| Top of Rock Elev. 301.4 | | | | | Begin Core Elev. 301.7 | | | | |
| RUN 3 (-123.5' to -127.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -124.8', -125.5', -125.6', -125.7', -125.9', -126.0', -126.1', -126.8' & -126.9'. -128.5' | | | | | 293.7 | | | | |
| RUN 4 (-127.5' to -130.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout. -33.5' | | | | | 289.7 | | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

Color pictures of the cores Yes Cores will be stored for examination for XX
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

Color pictures of the cores Yes Cores will be stored for examination for XX
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

I:\999999\CONV-PP-081-MS.DCL_0820319 CONN-PP-081-MS.DCL
 NEWARK\NF5-004-4\VAL\J.D.-TRANS-87\2202-28868-001\STRUCT\CAD\01 DESIGN\0820319\0820319.SHEET\0820319-002-SHT-MS.DGN
 5-11-2011, 10:02:28

| | | | | | | | | | | | | |
|-------------|----------------------|-----------------|-----------|--|-------------------------------------|--------------------------|----------------------------------|---------|---------------------------|--------------|-----------|-----|
| FILE NAME = | USER NAME = #USER# | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION I-70 CONNECTION RETAINING WALL | SOIL BORING LOGS 22 OF 26 | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| #FILE# | | DRAWN - TCG | REVISED - | | SCALE: | SHEET NO. RB-28 OF RB-32 | STA. 801+75.00 TO STA. 809+75.00 | 998 | 82-2-1HVB-1 | ST. CLAIR | 345 | 308 |
| | PLOT SCALE = #SCALE# | CHECKED - | REVISED - | | | | SN 082-W309 | | CONTRACT NO. 76D05 | | | |
| | PLOT DATE = #DATE# | DATE - 05/13/11 | REVISED - | | | | FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | |