# SB-126

## SOIL BORING LOG

PAGE 4 of 4
DATE 4/29-30/2009
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-W309
Station: --
BORING NO. SB-126
Station: 1681+98
Offset: 39.5' Right
Ground Surface Elev. 416.7

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After 24 Hrs. 395.7

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| Horizontal fractures @ -121.1', -122.2', -122.7', -123.3', -123.8' & -124.4'. Recovery=100.0% R.Q.D.=79.5% | | | | | |
| RUN 1 | 291.2 | -125 | | | |
| RUN 2 (-125.5' to -128.0') Valmeyeran Series Limestone. Light gray to gray with horizontal bedding. Fine grained with some varving & chert replacement. Recovery=100.0% R.Q.D.=56.0% | 288.7 | | | | |
| RUN 2 | | -130 | | | |
| RUN 3 (-128.0' to -131.0') Valmeyeran Series Limestone. Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Recovery=100.0% R.Q.D.=38.3% | 285.7 | | | | |
| RUN 3 | | -135 | | | |
| End Of Boring @ -131.0'. Hollow Stem Augers To -10.0'. Rotary Drilling To Completion. CME Automatic Hammer. 10' Of 4"* Casing Used | | -140 | | | |

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|
| -145 | | | |
| -150 | | | |
| -155 | | | |
| -160 | | | |

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

# SB-126 Run-1

## ROCK CORE LOG

PAGE 1 of 2
DATE 4/29-30/2009
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-W309
Station: --
BORING NO. SB-126
Station: 1681+98
Offset: 39.5' Right
Ground Surface Elev. 416.7

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 301.2
Begin Core Elev. 301.2

| Description | Elev. | DEPTH (ft) | CORE RUN (#) | RECOVERY (%) | R.Q.D. (%) | CORE TIME (min/ft) | STRENGTH (tsf) |
|---|---|---|---|---|---|---|---|
| RUN 1 (-115.5' to -125.5') Mississippian System, Valmeyeran Series Limestone. Light gray to gray & fine grained with horizontal bedding. Weathered to -116.4'. Horizontal fractures @ -115.9', -116.3', -116.4', -116.9', -117.4', -117.8', -118.1', -118.4', -118.8', -119.1', -119.4', -119.6', -120.1' & -120.5'. ½" clay parting @ -120.6'. Horizontal fractures @ -121.1', -122.2', -122.7', -123.3', -123.8' & -124.4'. | 301.2 | -5 | 1 | 100.0 | 79.5 | n/a | 8950 -117.0 |
| | | -10 | | | | | |

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)

# SB-126 Run-2&3

## ROCK CORE LOG

PAGE 2 of 2
DATE 4/29-30/2009
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-W309
Station: --
BORING NO. SB-126
Station: 1681+98
Offset: 39.5' Right
Ground Surface Elev. 416.7

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 301.2
Begin Core Elev. 301.2

| Description | Elev. | DEPTH (ft) | CORE RUN (#) | RECOVERY (%) | R.Q.D. (%) | CORE TIME (min/ft) | STRENGTH (tsf) |
|---|---|---|---|---|---|---|---|
| RUN 2 (-125.5' to -128.0') Mississippian System, Valmeyeran Series Limestone. Light gray to gray with horizontal bedding. Fine grained with some varving & chert replacement. Horizontal fractures @ -126.1', -126.5', -127.0', -127.3', -127.6' & -127.8'. | 291.2 | | 2 | 100.0 | 56.0 | n/a | 11000 -125.5 |
| RUN 3 (-128.0' to -131.0') Mississippian System, Valmeyeran Series Limestone. Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Horizontal fractures @ -128.3', -128.5', -128.9', -129.0', -129.4', -129.7', -130.0', -130.4' & -130.7'. | 288.7 | -130.5' | 3 | 100.0 | 38.3 | n/a | n/a |
| | | -135.5' | | | | | |

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)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FILE NAME = $FILEL$ | USER NAME = $USER$ | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION I-70 CONNECTION RETAINING WALL | SOIL BORING LOGS 24 OF 26 | F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS / SHEET NO. |
| | | DRAWN - TCG | REVISED - | | | 998 | 82-2-1HVB-1 | ST. CLAIR | 345 / 310 |
| TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS | PLOT SCALE = $SCALE$ | CHECKED - | REVISED - | | | | SN 082-W309 | CONTRACT NO. 76D05 | |
| | PLOT DATE = $DATE$ | DATE - 05/13/11 | REVISED - | | SCALE: | SHEET NO. RB-30 OF RB-32 | STA. 801+75.00 TO STA. 809+75.00 | FED. ROAD DIST. NO. / ILLINOIS | FED. AID PROJECT |

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5/11/2011,10:02:35 NEWMANMD \\FS 0044\XAM\VAULT\TRANS 07\2202\20863 001\STRUCT\CAD\01 DESIGN\082W309\SHEET\082W309-CONN-10 024-SHT-MS.DGN