

# SB-122

# SB-122 Run-1

# SB-122 Run-2

PAGE 4 of 4  
DATE 7/13-14/2009  
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 Hollow Stem Auger/Rotary HAMMER TYPE Dedrich Automatic

STRUCT. NO. 082-W309  
Station: --  
BORING NO. SB-122  
Station: 1677+24  
Offset: 22.5' Right  
Ground Surface Elev. 411.7

DEPTH (ft)	BLOWS Qu	UCS (tsf)	MOIST (%)	DEPTH (ft)	BLOWS Qu	UCS (tsf)	MOIST (%)
286.7-125				-145			
-130				-150			
-135				-155			
-140				-160			

Surface Water Elev. n/a  
Stream Bed Elev. n/a  
Groundwater Elevation:  
First Encounter n/a  
Upon Completion n/a  
After 24 Hrs. 401.2

RUN 2 (-120.0' to -125.0')  
Mississippian System, Valmeyeran Series Limestone  
Light gray & fine grained with horizontal bedding & some chert replacement. Horizontal fractures @ -120.8', -121.5' & -124.8'.  
Recovery=100.0%  
R.Q.D.=100.0%

End Of Boring @ -125.0'  
Hollow Stem Augers To -10.0'  
Rotary Drilling To Completion  
CME Automatic Hammer  
10' Casing Used

PAGE 1 of 2  
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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-122  
Station: 1677+24  
Offset: 22.5' Right  
Ground Surface Elev. 411.7

DEPTH (ft)	CORER RUN	RECOVERY (%)	R.Q.D. (%)	CORRECTION (min)	STRENGTH (tsf)
301.7	1	100.0	48.5	n/a	999 -114.4
-115					
-120					

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft  
Core Diameter 2.0 in  
Top of Rock Elev. 301.7  
Begin Core Elev. 301.7

RUN 1 (-110.0' to -120.0')  
Mississippian System, Valmeyeran Series Limestone  
Light gray & fine grained with horizontal bedding & some chert replacement. Numerous horizontal fractures throughout. 1/2" clay parting @ -110.7'.

PAGE 2 of 2  
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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-122  
Station: 1677+24  
Offset: 22.5' Right  
Ground Surface Elev. 411.7

DEPTH (ft)	CORER RUN	RECOVERY (%)	R.Q.D. (%)	CORRECTION (min)	STRENGTH (tsf)
291.7	2	100.0	00.0	n/a	406 -100.0
-125					
-130					

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft  
Core Diameter 2.0 in  
Top of Rock Elev. 301.7  
Begin Core Elev. 301.7

RUN 2 (-120.0' to -125.0')  
Mississippian System, Valmeyeran Series Limestone  
Light gray & fine grained with horizontal bedding & some chert replacement. Horizontal fractures @ -120.8', -121.5' & -124.8'.

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 T208) The Unit Dry Weight (pcf) is noted in Italic 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)

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 5-11-2011 9:56:16  
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