

# SB-123

# SB-123 Run-1

# SB-123 Run-2 & 3

SOIL BORING LOG		PAGE 4 of 4	
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		DATE 5/28-6/1/2009	
Station: --		LOGGED BY DR	
BORING NO. SB-123		GSI JOB No. 08201	
Station: 1678+75			
Offset: 46.5' Right			
Ground Surface Elev. 417.0			
DEPTH (ft)	LOG	U.C.S. (tsf)	MOIST. (%)
0	Surface Water Elev. n/a		
0	Stream Bed Elev. n/a		
0	Groundwater Elevation: First Encounter 405.5		
0	Upon Completion n/a		
0	After 24 Hrs. n/a		
115.5	Light gray & fine grained with horizontal bedding becoming light gray with some chert replacement @ -122.2'. 1/2" clay parting @ -116.0'. Horizontal fractures @ -116.7', -117.3', -117.9', -118.2', -119.1', -119.6', -119.9', -120.7' & -121.0'. Highly fractured from -121.2' to -121.7'. Horizontal fractures @ -122.4', -122.6', -122.7', -123.2', -123.8', -124.0', -124.4', -124.7', -125.0', -125.2' & -125.4'.		
125	Recovery=100.0% R.Q.D.=74.3% 291.5		
125.5	RUN 1 (-115.5' to -125.5') Mississippian System, Valmeyeran Series Limestone		
125.5	Light gray & fine grained with horizontal bedding becoming light gray with some chert replacement @ -122.2'. 1/2" clay parting @ -116.0'. Horizontal fractures @ -116.7', -117.3', -117.9', -118.2', -119.1', -119.6', -119.9', -120.7' & -121.0'. Highly fractured from -121.2' to -121.7'. Horizontal fractures @ -122.4', -122.6', -122.7', -123.2', -123.8', -124.0', -124.4', -124.7', -125.0', -125.2' & -125.4'.		
125.5	Recovery=100.0% R.Q.D.=74.3% 291.5		
128.5	RUN 2 (-125.5' to -128.5') Mississippian System, Valmeyeran Series Limestone		
128.5	Light gray & fine grained with horizontal bedding. Highly fractured throughout.		
128.5	Recovery=88.3% R.Q.D.=30.0% 288.5		
130	RUN 3 (-128.5' to -132.5') Mississippian System, Valmeyeran Series Limestone		
130	Light gray to gray & fine grained with horizontal bedding & some chert replacement. Horizontal fractures @ -128.9', 129.7', -130.0', 130.6', -131.3', -131.6' & -132.2'.		
130	Recovery=100.0% R.Q.D.=95.0% 284.5		
132.5	End Of Boring @ -132.5' Hollow Stem Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer 10" Of 4" Casing Used		
135			
140			

ROCK CORE LOG		PAGE 1 of 2	
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		DATE 5/28-6/1/2009	
Station: --		LOGGED BY DR	
BORING NO. SB-123		GSI JOB No. 08201	
Station: 1678+75			
Offset: 46.5' Right			
Ground Surface Elev. 417.0			
DEPTH (ft)	LOG	RECOVERY (%)	STRENGTH (tsf)
301.5	RUN 1 (-115.5' to -125.5') Mississippian System, Valmeyeran Series Limestone	100.0	74.3
301.5	Light gray & fine grained with horizontal bedding becoming light gray with some chert replacement @ -122.2'. 1/2" clay parting @ -116.0'. Horizontal fractures @ -116.7', -117.3', -117.9', -118.2', -119.1', -119.6', -119.9', -120.7' & -121.0'. Highly fractured from -121.2' to -121.7'. Horizontal fractures @ -122.4', -122.6', -122.7', -123.2', -123.8', -124.0', -124.4', -124.7', -125.0', -125.2' & -125.4'.		
301.5	Recovery=100.0% R.Q.D.=74.3% 291.5		
301.5	RUN 2 (-125.5' to -128.5') Mississippian System, Valmeyeran Series Limestone		
301.5	Light gray & fine grained with horizontal bedding. Highly fractured throughout.		
301.5	Recovery=88.3% R.Q.D.=30.0% 288.5		
301.5	RUN 3 (-128.5' to -132.5') Mississippian System, Valmeyeran Series Limestone		
301.5	Light gray to gray & fine grained with horizontal bedding & some chert replacement. Horizontal fractures @ -128.9', 129.7', -130.0', 130.6', -131.3', -131.6' & -132.2'.		
301.5	Recovery=100.0% R.Q.D.=95.0% 284.5		
301.5	End Of Boring @ -132.5' Hollow Stem Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer 10" Of 4" Casing Used		
301.5			
301.5			

ROCK CORE LOG		PAGE 2 of 2	
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		DATE 5/28-6/1/2009	
Station: --		LOGGED BY DR	
BORING NO. SB-123		GSI JOB No. 08201	
Station: 1678+75			
Offset: 46.5' Right			
Ground Surface Elev. 417.0			
DEPTH (ft)	LOG	RECOVERY (%)	STRENGTH (tsf)
291.5	RUN 2 (-125.5' to -128.5') Mississippian System, Valmeyeran Series Limestone	88.3	30.0
291.5	Light gray & fine grained with horizontal bedding. Highly fractured throughout.		
291.5	Recovery=88.3% R.Q.D.=30.0% 288.5		
288.5	RUN 3 (-128.5' to -132.5') Mississippian System, Valmeyeran Series Limestone	100.0	95.0
288.5	Light gray to gray & fine grained with horizontal bedding & some chert replacement. Horizontal fractures @ -128.9', 129.7', -130.0', 130.6', -131.3', -131.6' & -132.2'.		
288.5	Recovery=100.0% R.Q.D.=95.0% 284.5		
288.5	End Of Boring @ -132.5' Hollow Stem Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer 10" Of 4" Casing Used		
288.5			
288.5			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) SF-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)

1:99999999 CONN-PP-001 MS.DCN \A0820318 CONN-99-001-001-B0.DGN  
 5-11-2011, 9:58:23  
 NEWARK \NFS-004-AMVAULT\J.D. TRAVIS 97\2202\2008\001\STRUCT\CAD\DESIGN\0820329\SHEET\0820329-CONN-10-017-SHT-MS.DGN