SB-129

SOIL BORING LOG

PAGE 4 of 4
DATE 5/7-8/2009
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-129
Station: 1681+48
Offset: 80.5' Left
Ground Surface Elev. 416.8

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
-122.1', -122.8', -123.0', -124.1', -125.2', -125.8', -126.3' & -126.4'. Recovery=100.0% R.Q.D.=89.5%			RUN 1		
		-125			
	290.3				
RUN 1 (-126.5' to -131.5') Mississippian System, Valmeyeran Series Limestone. Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Numerous horizontal fractures throughout. Recovery=100.0% R.Q.D.=22.0%			RUN 2		
		-130			
	285.3				
End Of Boring @ -131.5' Hollow Stem Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer 10' Of 4"* Casing Used					
		-135			
		-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-129 Run-1

ROCK CORE LOG

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. 082-0329
Station: --
CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
BORING NO. SB-129
Station: 1681+48
Offset: 80.5' Left
Top of Rock Elev. 300.8
Begin Core Elev. 300.3
Ground Surface Elev. 416.8

Description	Elev.	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-116.5' to -126.5') Mississippian System, Valmeyeran Series Limestone. Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -117.1', -117.5', -118.3', -119.5', -119.7', -120.4', -120.7', -121.5', -122.1', -122.8', -123.0', -124.1', -125.2', -125.8', -126.3' & -126.4'.	300.3		1	100.0	89.5	n/a	7648 -116.5
		-121.5					
		-126.5					

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)

SB-129 Run-2

ROCK CORE LOG

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DATE 5/7-8/2009
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: --
CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
BORING NO. SB-129
Station: 1681+48
Offset: 80.5' Left
Top of Rock Elev. 300.8
Begin Core Elev. 300.3
Ground Surface Elev. 416.8

Description	Elev.	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-126.5' to -131.5') Mississippian System, Valmeyeran Series Limestone. Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Numerous horizontal fractures throughout.	290.3		2	100.0	22.0	n/a	n/a
		-131.5					
		-136.5					

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)