SB-109

SOIL BORING LOG

PAGE 4 of 4
DATE 5/11-12/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE I70/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-109
Station: 24+26
Offset: 37.5' Right
Ground Surface Elev. 415.9

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	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Light gray & fine grained with horizontal bedding. Horizontal fractures @ -115.7', -116.4', -116.9', -117.2', -117.4' & -117.8'. ½" clay parting @ -118.2'. Horizontal fractures @ -119.3', -119.6', -120.0', -120.1', -120.2', -120.4', -120.7', -120.9', -121.4', -121.7', -122.0', -122.1', -122.2', -122.3', -122.4, -122.6', -'23.3', -123.9', -124.2' & -125.0'. Recovery=100.0% R.Q.D.=64.8%	290.9 -125	RUN 1		
RUN 2 (-125.0' to -130.0') Mississippian System, Valmeyeran Series Limestone. Light gray & fine grained with horizontal bedding. Some chert replacement. Numerous horizontal fractures throughout. Recovery=100.0% R.Q.D.=35.0%	285.9 -130	RN 2		
End Of Boring @ -130.0' Hollow Stem Augers To -12.0' Rotary Drilling To Completion CME Automatic Hammer 12' Of 5"* Casing Used 3"* Casing Used	-135 -140			

Surface Water Elev.	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) S"-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-109 Run-1

ROCK CORE LOG

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ROUTE I70/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-109
Station: 24+26
Offset: 37.5' Right
Ground Surface Elev. 415.9

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 300.9
Begin Core Elev. 300.9

Description	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-115.0' to -125.0') Mississippian System, Valmeyeran Series Limestone. Light gray & fine grained with horizontal bedding. Horizontal fractures @ -115.7', -116.4', -116.9', -117.2', -117.4' & -117.8'. ½" clay parting @ -118.2'. Horizontal fractures @ -119.3', -119.6', -120.0', -120.1', -120.2', -120.4', -120.7', -120.9', -121.4', -121.7', -122.0', -122.1', -122.2', -122.3', -122.4, -122.6', -123.3', -123.9', -124.2' & -125.0'. Recovery=100.0% R.Q.D.=64.8%	300.9 -119 -125	1	100.0	64.8	n/a	1119@ -115.0'

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-109 Run-2

ROCK CORE LOG

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DATE 5/11-12/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE I70/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-109
Station: 24+26
Offset: 37.5' Right
Ground Surface Elev. 415.9

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 300.9
Begin Core Elev. 300.9

Description	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 2 (-125.0' to -130.0') Mississippian System, Valmeyeran Series Limestone. Light gray & fine grained with horizontal bedding. Some chert replacement. Numerous horizontal fractures throughout.	290.0 -130 -135	2	100.0	35.0	n/a	1293@ -125.0'

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)