SB-125

SOIL BORING LOG

PAGE 4 of 4
DATE 5/5/2009
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-125
Station: 1680+85
Offset: 46.5' Right
Ground Surface Elev. 417.2

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After 24 Hrs. 395.2

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Recovery=100.0% R.Q.D.=90.0%	296.7		RUN 1		
RUN 2 (-120.5' to -123.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -121.3', -121.8' & -122.5'. Recovery=95.0% R.Q.D.=81.7%	293.7		RUN 2		
RUN 3 (-123.5' to -127.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -124.8', -125.5', -125.6', -125.7', -125.9', -126.0', -126.1', -126.8' & -126.9'. Recovery=97.5% R.Q.D.=62.5%	289.7	-125	RUN 3		
RUN 4 (-120.5' to -123.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout. Recovery=100.0% R.Q.D.=25.0%	286.7	-130	RUN 4		
End Of Boring @ -130.5' 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-125 Run-1&2

ROCK CORE LOG

PAGE 1 of 2
DATE 5/5/2009
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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: --
BORING NO. SB-125
Station: 1680+85
Offset: 46.5' Right
Ground Surface Elev. 417.2

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 301.4
Begin Core Elev. 301.7

Description	Elev.	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-115.5' to -120.5') (-115.5' to -115.8') Cobbles (-115.8' to -120.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -116.4', -116.7', -117.2', -117.7', -118.1', -119.6' & -119.7'. ½" clay parting @ -120.5'.	301.7 301.4		1	100.0	90.0	n/a	12368 -117.5'
RUN 2 (-120.5' to -123.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -121.3', -121.8' & -122.5'.	296.7	-120.5	2	95.0	81.7	n/a	10508 -121.5'
		-125.5					

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-125 Run-3&4

ROCK CORE LOG

PAGE 2 of 2
DATE 5/5/2009
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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: --
BORING NO. SB-125
Station: 1680+85
Offset: 46.5' Right
Ground Surface Elev. 417.2

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 301.4
Begin Core Elev. 301.7

Description	Elev.	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 3 (-123.5' to -127.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -124.8', -125.5', -125.6', -125.7', -125.9', -126.0', -126.1', -126.8' & -126.9'.	293.7		3	97.5	62.5	n/a	12110 -123.7'
RUN 4 (-127.5' to -130.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout.	289.7	-128.5	4	100.0	25.0	n/a	n/a
		-33.5					

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)

\\999999999-CONN-99-001-MS.DGN \\VB2B3IB-CONN-99-001-BD.DGN
5-11-2011 9:54:53 NEWMANMD \\FS-0044\AM\VAULT_D-TRANS_07\2202\20868-001\STRUCT\CAD\01 DESIGN\08202328\SHEET\08202328-CONN-10-017-SHT-MS.DGN

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN - TCG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - JLR	REVISED -
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = $DATE$	DATE - 05/13/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 3 OVER I-70

SOIL BORING LOGS
13 OF 21

SCALE: | SHEET NO. SA-49 OF SA-57 | STA. 1683+43.17 TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	184
	SN 082-0328	CONTRACT NO. 76D05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		