

SB-113

SB-113 Run-1

SB-113 Run-2

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SOIL BORING LOG

DATE 5/15-19/2009
LOGGED BY MR
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-W309
Station: --
BORING NO. **SB-113**
Station: 53+45
Offset: 52.5' Right
Ground Surface Elev. 418.3

				DEPTH	BLOW	UNCONSOLIDATED	MOISTURE					DEPTH	BLOW	UNCONSOLIDATED	MOISTURE
				(ft)	(/6")	(tsf)	(%)					(ft)	(/6")	(tsf)	(%)
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											
<p>Light gray mottled gray & fine grained with horizontal bedding. Argillaceous from -119.8' to -120.5 with some chert replacement. Horizontal fractures @ -117.1' & -117.6'. Thin clay parting @ -127.9'. Horizontal fractures @ -118.0', -118.1', -118.8', -119.3', -119.9', -120.2', -120.5', -121.1', -121.8', -122.1', -122.4', -123.5', -123.9' & -124.1'. 1.0" clay parting @ -124.2'. Horizontal fractures @ -124.5', -125.3' & -126.0'. Recovery=100.0% R.Q.D.=77.2%</p> <p style="text-align: center;">291.8</p> <p>RUN 1</p> <p>Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -127.8', -128.9', -130.0', -130.6', -130.7', -130.9', -131.2' & -131.3'. Recovery=100.0% R.Q.D.=62.0%</p> <p style="text-align: center;">286.8</p> <p>RUN 2</p> <p>End Of Boring @ -131.5' Hollow Stem Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer 10' Of 4" Casing Used</p>															

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ROCK CORE LOG

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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 CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station: -- Core Diameter 2.0 in
BORING NO. **SB-113** Top of Rock Elev. 302.3
Station: 53+45 Begin Core Elev. 301.8
Offset: 52.5' Right
Ground Surface Elev. 418.3

DEPTH (ft)	CORRECTION (#)	RECOVERY (%)	R.Q.D. (%)	CORRECTION (min/ft)	STRENGTH (tsf)
301.8					
<p>RUN 1 (-116.5' to -126.5') Mississippian System, Valmeyeran Series Limestone</p> <p>Light gray mottled gray & fine grained with horizontal bedding. Argillaceous from -119.8' to -120.5 with some chert replacement. Horizontal fractures @ -117.1' & -117.6'. Thin clay parting @ -127.9'. Horizontal fractures @ -118.0', -118.1', -118.8', -119.3', -119.9', -120.2', -120.5', -121.1', -121.8', -122.1', -122.4', -123.5', -123.9' & -124.1'. 1.0" clay parting @ -124.2'. Horizontal fractures @ -124.5', -125.3' & -126.0'.</p>					
-121.5					
-126.5					

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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 CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station: -- Core Diameter 2.0 in
BORING NO. **SB-113** Top of Rock Elev. 302.3
Station: 53+45 Begin Core Elev. 301.8
Offset: 52.5' Right
Ground Surface Elev. 418.3

DEPTH (ft)	CORRECTION (#)	RECOVERY (%)	R.Q.D. (%)	CORRECTION (min/ft)	STRENGTH (tsf)
291.8					
<p>RUN 2 (-126.5' to -131.5') Mississippian System, Valmeyeran Series Limestone</p> <p>Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -127.8', -128.9', -130.0', -130.6', -130.7', -130.9', -131.2' & -131.3'.</p>					
-131.5					
-136.5					

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

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)

C:\P99999\CONV-P9-081-MS.DGN \0820119-CONV-P9-081-MS.DGN
 NEWARK\0820119-CONV-P9-081-MS.DGN
 5-11-2011, 10:00:11

TENG	TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION I-70 CONNECTION RETAINING WALL	SOIL BORING LOGS			F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		#FILEL#		DRAWN - TCG	REVISED -		16 OF 20			998	82-2-1HVB-1	ST. CLAIR	345	276
		CHECKED -	REVISED -	SCALE:			SHEET NO. RA-21 OF RA-25	STA. 170+00.00	TO STA. 176+50.00	CONTRACT NO. 76D05				
		PLOT SCALE = #SCALE#		DATE 05/13/11	REVISED -					ILLINOIS FED. AID PROJECT				