SB-08 Run-3

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Warrenville Court, Suite 204
Naperville, Illinois 60563
630-355-8300

ROCK CORE LOG

PAGE 2 of 3
DATE
LOGGED BY DR
GSI JOB No. 08201

ROUTE I-70
DESCRIPTION I-70 Tri-Level Connection IDOT Job No. D-98-059-08
SECTION 82-2-1HVB
LOCATION I-70 Curved Approach Structures
COUNTY St. Clair
CORING METHOD Rotary Wash
STRUCT. NO. S.N. 082-0318
Station: 127+00 to 140+74
BORING NO. SB-08
Station: 138+34
Offset: 43.0' Right
Ground Surface Elev. 404.3
CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 299.0
Begin Core Elev. 300.8

	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 3 (-107.0' to -117.0') Mississippian System, Valmeyeran Series Limestone Light gray with horizontal bedding. Fine grained with some chert replacement. Numerous horizontal fractures throughout with some thin clay partings.	297.3	3	100.0	34.5	n/a	1209@ -107.9'
	-112.0					
	-117.0					

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-08 Run-4

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ROCK CORE LOG

PAGE 3 of 3
DATE
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GSI JOB No. 08201

ROUTE I-70
DESCRIPTION I-70 Tri-Level Connection IDOT Job No. D-98-059-08
SECTION 82-2-1HVB
LOCATION I-70 Curved Approach Structures
COUNTY St. Clair
CORING METHOD Rotary Wash
STRUCT. NO. S.N. 082-0318
Station: 127+00 to 140+74
BORING NO. SB-08
Station: 138+34
Offset: 43.0' Right
Ground Surface Elev. 404.3
CORING BARREL TYPE & SIZE NX Double Swivel-5 ft
Core Diameter 2.0 in
Top of Rock Elev. 299.0
Begin Core Elev. 300.8

	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 3 (-117.0' to -122.0') Mississippian System, Valmeyeran Series Limestone Light gray with horizontal bedding. Fine grained with some chert replacement. Horizontal fractures @ -117.3', -117.4', -117.9', -118.8', -119.0', -120.4', -121.4' & -121.6'.	287.3	4	91.5	75.0	n/a	1053@ -118.3'
	-122.0					
	-127.0					

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-09

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SOIL BORING LOG

PAGE 1 of 4
DATE 3/16-17/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE I-70
DESCRIPTION I-70 Tri-Level Connection IDOT Job No. D-98-059-08
SECTION 82-2-1HVB
LOCATION I-70 Curved Approach Structures
COUNTY St. Clair
DRILLING METHOD 3.25" Hollow Stem Auger
HAMMER TYPE CME Automatic
STRUCT. NO. S.N. 082-0318
Station: 127+00 to 140+74
BORING NO. SB-09
Station: 140+74
Offset: 43.0' Left
Ground Surface Elev. 406.1

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

	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black	405.1	AS	-	39
		2		
		4		
		5	1.25P	40
		2		
		2		
SILTY CLAY-dark brown-stiff to very stiff (A-7) Wet	-5	2	2.0P	30
				84
		ST	1.2B	33
		2		
		2		
	-10	3	1.25P	31
		3		
		4		
		4	1.25P	28
	393.1			
		2		
		2		
SANDY LOAM-brown-very loose (A-2)	-15	1	NP	28
		1		
		0		
		3	NP	28
	388.1			
SAND-brown & gray-medium dense (A-3)		5		
		6		
	-20	10	NP	18

	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
SAND-brown & gray-medium dense (A-3)		6		
		8		
	-25	9	NP	22
Clay seams from -26.0' to -27.5'.		3		
		7		
		10	NP	23
		9		
		13		
	-30	16	NP	21
	375.6			
		14		
		12		
		11	NP	17
SAND-gray-medium dense to dense (A-3)		4		
		8		
	-35	11	NP	24
		7		
		8		
		10	NP	18
		10		
		16		
	-40	19	NP	23

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