


SB-03 Run-1

SB-03 Run-2

SB-04



Geo Services Inc.
Geotechnical, Environmental & Civil Engineering
800 West Park Drive, Suite 204
Naperville, Illinois 60563
(630) 256-8900

ROCK CORE LOG

PAGE 1 of 2
DATE 3-4-2009
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-IHVB LOCATION I-70 Curved Approach Structures

COUNTY St. Clair CORING METHOD Rotary Wash

STRUCT. NO. S.N. 082-0318 CORING BARREL TYPE & SIZE NX Double Swivel-10 ft

Station: 127+00 to 140+74 Core Diameter 2.0 in

BORING NO. SB-03 Top of Rock Elev. 300.9

Station: 132+64 Begin Core Elev. 299.9


Offset: 43.0' Left

Ground Surface Elev. 404.4

D E P T H (ft)	C O R E (ft)	R E C O R D (%)	R E C O R D (%)	S T R E N G T H (tsf)	S T R E N G T H (tsf)
299.9	1	100.0	33.5	na	1028 -114.5'

MISSISSIPPIAN SYSTEM, VALMEYERAN SERIES LIMESTONE
RUN 1 (-104.5' to -114.5')

Light gray with horizontal bedding. Fine grained with numerous horizontal fractures throughout. Some chert replacement.



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SECTION 82-2-IHVB LOCATION I-70 Curved Approach Structures

COUNTY St. Clair CORING METHOD Rotary Wash

STRUCT. NO. S.N. 082-0318 CORING BARREL TYPE & SIZE NX Double Swivel-5 ft

Station: 127+00 to 140+74 Core Diameter 2.0 in

BORING NO. SB-03 Top of Rock Elev. 300.9

Station: 132+64 Begin Core Elev. 299.9


Offset: 43.0' Left

Ground Surface Elev. 404.4

D E P T H (ft)	C O R E (ft)	R E C O R D (%)	R E C O R D (%)	S T R E N G T H (tsf)	S T R E N G T H (tsf)
299.9	2	100.0	100.0	na	498 -114.4'

MISSISSIPPIAN SYSTEM, VALMEYERAN SERIES LIMESTONE
RUN 2 (-114.5' to -119.5')

Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Horizontal fractures @ -114.6', -115.0', -115.5', -116.9', -117.4' & -119.2'.



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SOIL BORING LOG

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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-IHVB 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-04

Station: 132+64

Offset: 43.0' Right

Ground Surface Elev. 403.7

D E P T H (ft)	B L O C K (ft)	U N C L A S S (ft)	M O I S T U R E (%)	Surface Water Elev.	Stream Bed Elev.	D E L T A (ft)	B L O C K (ft)	U N C L A S S (ft)	M O I S T U R E (%)
402.7	AS	-	40	n/a	n/a				
2			78						
8									
10									
11	0.8B	42						NP	24
16									
24									
25	4	1.75P	39					NP	21
398.2									
3									
3									
2		NP	32					NP	19
6									
10									
30	5	NP	30					NP	15
393.2									
6									
6		NP	25					NP	17
390.7									
0									
3									
15	5	<0.25P	82					NP	18
388.2									
4									
4		NP	27					NP	22
7									
8									
20	9	NP	26					NP	22

TOPSOIL-black

SILTY CLAY-dark brown & gray-medium stiff to stiff (A-7) Wet

SAND-brown & gray-loose to dense (A-3)

SILTY LOAM to LOAM-brown & gray-loose (A-2/A-4)

SAND-brown-medium dense (A-3)

CLAY-dark gray-very soft (A-7) Wet

SAND-brown & gray-loose to dense (A-3)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Functor) ST-Shelly Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D-1586) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

\\FS-0644\AMV\VALT.D-TRANS-2292\22866-001\STRUCT\CAD\01 DESIGN\0820318\SHEET_0820318-CONN-05-086-SHT-MS.DGN
\\FS-0644\AMV\VALT.D-TRANS-2292\22866-001\STRUCT\CAD\01 DESIGN\0820318\SHEET_0820318-CONN-05-001-80.DGN
\\FS-0644\AMV\VALT.D-TRANS-2292\22866-001\STRUCT\CAD\01 DESIGN\0820318\SHEET_0820318-CONN-05-001-80.DGN
\\FS-0644\AMV\VALT.D-TRANS-2292\22866-001\STRUCT\CAD\01 DESIGN\0820318\SHEET_0820318-CONN-05-001-80.DGN

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)