

SB-08

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Geo Services Inc.
Geotechnical, Environmental & Civil Engineering
805 Lakeside Drive, Suite 204
Naperville, Illinois 60563
(630) 251-1100

SOIL BORING LOG

DATE 3/26-27/2009
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-08**
Station: 138+34
Offset: 43.0' Right
Ground Surface Elev. **404.3**

DEPTH (ft)	LOG	TESTS	REMARKS	UCS (psi)	REMARKS	UCS (psi)	REMARKS
0	Surface Water Elev. <i>n/a</i>						
0	Stream Bed Elev. <i>n/a</i>						
0	Groundwater Elevation:						
0	First Encounter <i>n/a</i>						
0	Upon Completion <i>n/a</i>						
0	After 24 Hrs. <i>n/a</i>						
10			SAND & GRAVEL-very dense (A-1)	303.8			
11							
13			Silty SAND & GRAVEL & FRACTURED ROCK-gray-very dense (A-2)	506"			
10				300.8			
10			RUN 1 (-103.5' to -105.3') Cobbles & Gravel.				
-85			RUN 1 (-105.3' to -106.0') Mississippi System, Valmeyeran Series Limestone	299.0		Run 1	
10			RUN 2 (-106.0' to -107.0') Mississippi System, Valmeyeran Series Limestone	298.3			
11			RUN 2 (-106.0' to -107.0') Mississippi System, Valmeyeran Series Limestone	297.3		Run 2	
13							
15			RUN 3 (-107.0' to -117.0') Mississippi System, Valmeyeran Series Limestone				
19			Light gray with horizontal bedding. Fine grained with some chert replacement. Numerous horizontal fractures throughout with some thin clay partings.				
-90						Run 3	
11			Recovery=100.0% R.Q.D.=34.5%				
16							
21							
16							
26							
-95							
308.8							
303"							
305"			SAND & GRAVEL & FRACTURED ROCK-gray-very dense (A-1)				
305"			RUN 3 (-117.0' to -122.0') Mississippi System, Valmeyeran Series Limestone			Run 4	
305"			Light gray with horizontal bedding. Fine grained with some chert replacement.				
-100							

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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
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BORING NO. **SB-08**
Station: 138+34
Offset: 43.0' Right
Ground Surface Elev. **404.3**

DEPTH (ft)	LOG	TESTS	REMARKS	UCS (psi)	REMARKS	UCS (psi)	REMARKS
0	Surface Water Elev. <i>n/a</i>						
0	Stream Bed Elev. <i>n/a</i>						
0	Groundwater Elevation:						
0	First Encounter <i>n/a</i>						
0	Upon Completion <i>n/a</i>						
0	After 24 Hrs. <i>n/a</i>						
10			Horizontal fractures @ -117.3', -117.4', -117.9', -118.8', -119.0', -120.4', -121.4' & -121.6'. Recovery=91.5% R.Q.D.=75.0%				
282.3							
End Of Boring @ -122.0'							
Hollow Stem Augers To -10.0'							
Rotary Drilling To Completion							
CME Automatic Hammer							
10' Of 4" Casing Used							
107' Of 3" Casing Used							
-125							
-145							
-130							
-150							
-135							
-155							
-140							
-160							

SB-08 Run-1&2

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ROCK CORE LOG

DATE 3/26-27/2009
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 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**

DEPTH (ft)	LOG	TESTS	REMARKS	UCS (psi)	REMARKS	UCS (psi)	REMARKS
0	Surface Water Elev. <i>n/a</i>						
0	Stream Bed Elev. <i>n/a</i>						
0	Groundwater Elevation:						
0	First Encounter <i>n/a</i>						
0	Upon Completion <i>n/a</i>						
0	After 24 Hrs. <i>n/a</i>						
300.8			RUN 1 (-103.5' to -105.3') Cobbles & Gravel				
299.0			RUN 1 (-105.3' to -106.0') Mississippi System, Valmeyeran Series Limestone				
298.3			RUN 2 (-106.0' to -107.0') Mississippi System, Valmeyeran Series Limestone				
-108.5							
-113.5							

\0820318-CONN-05-010-MS.DGN, \0820318-CONN-05-010-MS.DGN, \0820318-CONN-99-001-RO.DGN
 6-02-2010, 10:07:28 AM \\FS-0644\AM\VAULT-D-TRANS_07\2202_200906-001\STRUCT\CAD\01 DESIGN\0820318\SHEET_0820318-CONN-05-010-SHT-MS.DGN
 BONDHUJO

