SB-105

SOIL BORING LOG

PAGE 1 of 4
DATE 6/11-16/2009
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-W309
Station: --
BORING NO. SB-105
Station: 20+59
Offset: Baseline
Ground Surface Elev. 418.7

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After 24 Hrs. 402.7

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
CLAY LOAM-brown (Fill)	417.7		AS	–	19
SILTY LOAM with Cinders-black-very loose to loose (Fill) Wet	410.7	-5	5		
			4		
			3	NP	30
			1		
			1		
		-10	1	NP	22
			1		
			0		
			0	NP	33
SILT-brown-very loose (A-4)	402.7		1		
			0		
		-15	1	NP	28
			1		
			0		
			1	NP	32
			1		
			1		
		-20	1	NP	26
SILTY CLAY-brown & gray-soft (A-6/A-7) Wet	400.7		1		82
			0		
			1	0.25B	38
SILT-brown & gray-very loose (A-4)	397.2		1		
			1		
		-25	1	NP	36
SILTY CLAY-gray-soft (A-7) Wet	393.2				
			1		
			1		
		-30	1	NP	33
SAND-gray-medium dense to dense (A-3)			9		
			11	NP	14
			5		
			8		
		-35	9	NP	14
			10		
			18		
		-40	19	NP	15
			8		
			9		
			12	NP	14
			15		
			14		
		-40	11	NP	15

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

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Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SAND-gray (A-3)	378.2				
SAND with Gravel-gray-dense (A-1-b)			14		
			17		
			18	NP	13
	375.7				
SAND-gray-medium dense to dense (A-3)			7		
			10		
		-45	9	NP	16
			8		
			18		
			15	NP	17
			14		
			20		
		-50	26	NP	15
			24		
			30		
			23	NP	18
			17		
			25		
		-55	33	NP	22
			21		
			24		
			16	NP	12
			5		
			7		
		-60	4	NP	13
SAND-gray-medium dense to dense (A-3)			14		
			18		
			21	NP	21
			10		
			10		
		-65	11	NP	21
			12		
			14		
			16	NP	20
			10		
			10		
		-70	13	NP	13
			11		
			11		
			12	NP	11
			8		
			9		
		-75	9	NP	14
			9		
			10		
			9	NP	17
			9		
			8		
		-80	9	NP	13

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Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SAND-gray-medium dense to dense (A-3)			7		
			9		
			10	NP	13
			9		
			10		
		-85	12	NP	16
			13		
			10		
			10	NP	17
			10		
			13		
		-90	12	NP	15
			12		
			9		
			11	NP	19
			9		
			8		
		-95	11	NP	21
			12		
			9		
			10	NP	17
			8		
			9		
		-100	9	NP	19
SAND-gray-medium dense to dense (A-3)			9		
			9		
			12	NP	20
			11		
			16		
		-105	32	NP	16
	313.2				
SAND & GRAVEL-gray-very dense (A-1)			50/1"		
	311.7				
Drillers Observation: Cobbles & Boulders.				NP	13
	309.7				
SAND & GRAVEL-gray-very dense (A-1)					
		-110			
			50/5"		
				NP	1'
	304.7		50/1"		NR
Drillers Observation: Apparent Bedrock.	303.7	-115			
RUN 1 (-115.0' to -125.0') Mississippian System, Valmeyeran Series Limestone. Light gray to gray & fine grained with horizontal bedding & numerous horizontal fractures throughout. ½" clay parting @ -116.1' & -120.7'.					RUN 1
		-120			

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