SB-118

SOIL BORING LOG

PAGE 1 of 4
DATE 5/13-14/2009
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. 082-0329
Station: --
BORING NO. SB-118
Station: 1680+17
Offset: 38.0' Left
Ground Surface Elev. 417.2

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CINDERS & SAND-black-loose (Fill)	414.2		AS	NP	11
			4		
			5	NP	21
TOPSOIL-black	411.7		2		
			2		
		-5	1	--	32
SANDY LOAM-brown-medium dense (A-2)	409.2		2		
			3		
			7	NP	10
SILTY LOAM-brown-loose (A-4)	406.7		3		
			4		
		-10	4	NP	26
SAND-brown & gray-loose to dense (A-3)			13		
			17		
			22	NP	10
			8		
			11		
		-15	9	NP	23
			3		
			3		
			6	NP	18
			7		
			14		
		-20	18	NP	19
SAND-brown & gray-loose to dense (A-3)			10		
			11		
			13	NP	21
			7		
			10		
		-25	12	NP	21
			8		
			12		
			14	NP	24
			4		
			4		
		-30	6	NP	26
			15		
			24		
			26	NP	21
			7		
			23		
		-35	24	NP	21
			13		
			8		
			14	NP	22
			17		
			17		
		-40	25	NP	22

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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After 24 Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-brown & gray-loose to dense (A-3)			10		
			12		
			8	NP	25
			3		
			6		
		-45	6	NP	24
			4		
			4		
			5	NP	26
			4		
			6		
		-50	8	NP	24
SANDY LOAM-brown & gray-medium dense (A-2)	366.7		5		
			7		
			7	NP	23
			7		
			7		
		-55	7	NP	23
			5		
			7		
			8	NP	29
SAND-gray-medium dense to dense (A-3)	359.2		6		
			8		
		-60	9	NP	25
SAND-gray-medium dense to dense (A-3)			8		
			8		
			11	NP	24
			16		
			27		
		-65	27	NP	21
			20		
			30		
			37	NP	20
			21		
			28		
		-70	28	NP	21
			9		
			13		
			13	NP	23
			8		
			15		
		-75	23	NP	20
SAND with Gravel-brown & gray-medium dense to dense (A-1-b)	341.7		10		
			15		
			20	NP	11
			6		
			12		
		-80	13	NP	14

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Upon Completion n/a
After 24 Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND with Gravel-brown & gray-medium dense to dense (A-1-b)			8		
			8		
			7	NP	14
			5		
			5		
		-85	8	NP	14
SAND-brown & gray-medium dense to dense (A-3)	331.7		10		
			13		
			25	NP	16
			7		
			6		
		-90	8	NP	16
			8		
			10		
			14	NP	17
			9		
			10		
		-95	12	NP	19
			9		
			11		
			13	NP	17
			10		
			12		
		-100	11	NP	17
SAND-brown & gray-medium dense to dense (A-3)			15		
			33		
			50	NP	13
Drillers Observation: Cobbles & Boulders from -103.0' to -111.0'.	314.2				
		-105			
		-110			
SAND & Gravel-brown & gray-very dense (A-1)	306.2				
			5		
			36		
			50/2"	NP	8
RUN 1 (-114.5' to -124.7') Mississippian System, Valmeyeran Series Limestone	302.7	-115	RUN 1		
Light gray & fine grained with horizontal bedding Horizontal fractures @ -114.2', -114.5', -115.3', -115.7', -116.4', -116.7', -116.9', -117.3', -117.8', -118.0' & -118.4'. 1/4" clay parting @ -118.8'. Horizontal fractures @ -120.7', -121.0', -121.8' & -123.4'. 1/2" clay parting @ -124.7'.		-120			

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