SB-124

SOIL BORING LOG

PAGE 1 of 4
DATE 5/22-27/2009
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-124
Station: 1679+71
Offset: 46.5' Right
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. 396.7 ▽

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CRUSHED STONE	416.2		AS	29	5
CINDERS-black-very loose to loose (Fill)			2		X
			3		
			3	NP	12
			1		
			2		
		-5	1	NP	16
			1		
			1		
			1	NP	24
SILTY CLAY-dark brown to black-stiff (A-7) Wet	409.2		3		85
			4	1.3S@	
		-10	4	12.7%	33
SAND-brown & gray-loose to dense (A-3)	406.7				
			ST	NP	23
			6		
			9		
		-15	13	NP	25
			11		
			12		
			14	NP	25
			4		
			3		
		-20	2	NP	28
SAND-brown & gray-loose to dense (A-3)			2		
			2		
			1	NP	32
			11		
			14		
		-25	16	NP	32
			9		
			8		
			7	NP	24
			2		
			4		
		-30	4	NP	27
			13		
			15		
			18	NP	30
			14		
			18		
		-35	21	NP	24
			14		
			18		
			27	NP	23
			7		
			13		
		-40	14	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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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-brown & gray-loose to dense (A-3)			17		
			23		
			27	NP	24
			12		
			23		
		-45	25	NP	23
			22		
			16		
			13	NP	23
SANDY LOAM-dark gray to gray-medium dense (A-2)	369.2		6		
			5		
		-50	7	NP	30
			5		
			5		
			9	NP	28
			8		
			8		
		-55	8	NP	26
			5		
			6		
			7	NP	29
			6		
			7		
		-60	7	NP	26
SANDY LOAM-dark gray to gray-medium dense (A-2)			8		
			7		
			9	NP	26
	354.2				
			10		
			11		
		-65	12	NP	23
			11		
			15		
			19	NP	24
SAND-brown & gray-medium dense to dense (A-2)			11		
			11		
		-70	12	NP	25
			11		
			11		
			13	NP	23
			12		
			13		
		-75	15	NP	21
			12		
			18		
			16	NP	17
			14		
			24		
		-80	30	NP	14

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After 24 Hrs. 396.7 ▽

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-brown & gray-medium dense to dense (A-2)			13		
			18		
			18	NP	16
			13		
			13		
		-85	17	NP	14
SAND-brown & gray-medium dense to dense (A-3)	331.7		12		
			10		
			11	NP	12
			20		
			8		
		-90	7	NP	15
			9		
			10		
			11	NP	17
			11		
			10		
		-95	11	NP	11
			11		
			10		
			11	NP	13
			9		
			15		
		-100	16	NP	10
SAND-brown & gray-medium dense to dense (A-3)			12		
			16		
			22	NP	17
			22		
			27		
		-105	39	NP	14
SAND with Gravel-brown & gray-very dense (A-1-b)	311.7		20		
			27		
			50/6"	NP	9
			50/4"		
		-110		NP	17
			50/1"		
					NR
			29		
			50/3"		
		-115		NP	13
RUN 1 (-116.0' to -120.5') Mississippian System, Valmeyeran Series Limestone Light gray & fine grained with horizontal bedding Horizontal fractures @ -116.4', -116.7', -117.1', -117.6', -117.7' & -118.4'. ½" clay parting @ -118.6'. Horizontal fractures @ -118.7', -119.3' & -120.0'.	301.2				RUN 1
		-120			

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