SB-117

SOIL BORING LOG

PAGE 1 of 4
DATE 6/4-8/2009
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-117
Station: 1678+67
Offset: 59.0' Left
Ground Surface Elev. 416.6

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 405.6
Upon Completion n/a
After 24 Hrs. n/a

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SILTY CLAY-brown & gray-very stiff (A-6) Fill			AS	–	27
			2		*92*
			2		
			5	2.68	28
	413.6				
CINDERS & SAND-black-very loose to loose (Fill) Wet			3		
			4		
		-5	2	NP	20
			1		
			1		
			1	NP	23
			1		
			1		
		-10	0	NP	23
			1		
			1		
			0	NP	30
			2		
			1		
		-15	2	NP	27
	401.1				
SILTY LOAM-dark brown & gray-very loose (A-4)			1		
			1		
			1	NP	29
			0		
			0		
		-20	0	–	37
SILTY LOAM-very loose (A-4)	396.1				
			0		*53*
			0	0.25B	77
ORGANIC CLAY-brown, gray & black-soft (A-7) Wet					
		-25	ST	<0.25B	64
			2		
			2		
			3		NR
	388.6				
SILTY CLAY-dark gray-very soft (A-6) Wet			0		
			2		
		-30	2	0.25P	35
	386.1				
SILTY LOAM-gray-very loose to loose (A-4)			1		
			2		
			2	<0.25P	27
			3		
			1		
		-35	2	NP	25
	381.1				
SANDY LOAM-dark gray-loose to medium dense (A-2)			5		
			5		
			5	NP	32
			5		
			5		
		-40	7	NP	27

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

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
			3		
			4		
			3	NP	27
			2		
			3		
SANDY LOAM-dark gray-loose to medium dense (A-2)		-45	5	NP	28
			3		
			4		
			4	NP	28
			2		
			3		
		-50	7	NP	27
	366.1				
			9		
			12		
			10	NP	23
			14		
			13		
SAND-brown & gray-medium dense to dense (A-3)		-55	12	NP	20
			11		
			10		
			9	NP	18
			11		
			14		
		-60	14	NP	14
SAND-brown & gray-medium dense to dense (A-3)			8		
			9		
			21	NP	19
			31		
			34		
		-65	40	NP	22
			10		
			11		
			13	NP	2'
			11		
			15		
		-70	15	NP	21
			13		
			18		
			19	NP	20
			11		
Trace organics from -73.5' to -75.0'.			9		
		-75	11	NP	27
			13		
			13		
			17	NP	21
			13		
			12		
		-80	13	NP	22

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Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
			20		
			23		
			46	NP	26
SAND-brown & gray-medium dense to dense (A-3)					
			23		
			15		
		-85	21	NP	26
			10		
			10		
			10	NP	20
	328.6				
SAND with Gravel-brown-medium dense (A-1-b)			11		
			13		
		-90	12	NP	17
	326.1				
			10		
			11		
			11	NP	13
			12		
			12		
SAND-brown & gray-medium dense to dense (A-3)		-95	13	NP	14
			13		
			15		
			15	NP	14
			14		
			16		
		-100	18	NP	15
SAND-brown & gray-medium dense to dense (A-3)			12		
			14		
			22	NP	13
			34		
			40		
		-105	17	NP	14
	311.1				
SAND with Gravel-brown-dense to very dense (A-1-b)			40		
			47		
			32	NP	12
			50/6"		
		-110		NP	18
			31		
			40		
			50/6"	NP	10
			50/1"		
	301.6	-115		NP	NR
Drillers Observation: Apparent Bedrock.	301.1				
RUN 1 (-115.5' to -125.5') Mississippian System, Valmeyeran Series Limestone			RUN 1		
		-120			

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