SB-104

SOIL BORING LOG

PAGE 1 of 4
DATE 5/9-10/2009
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-104
Station: 19+63
Offset: 7.0' Right
Ground Surface Elev. 419.7

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After 24 Hrs. 405.7

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-brown (A-6) Fill	418.7		AS	-	17
CINDERS & SAND-black-loose (Fill)		-5	5 4 3	NP	21
	414.2		3 4 4	NP	27
SILTY LOAM to LOAM-brown-loose (A-4)		-10	4 3 3	NP	12
			2 3 4	NP	16
			2 3 4	NP	26
		-15	1 2 3	NP	32
SANDY LOAM-brown-loose (A-2)	404.2		7 6 3	NP	23
SAND-brown & gray-medium dense (A-3)	401.7		5 6 7	NP	21
SAND-brown & gray-medium dense (A-3)		-25	4 9 6	NP	18
			7 11 12	NP	19
	391.7		9 8 9	NP	19
SILTY CLAY-dark gray-soft (A-7) Wet		-30	2 1 3	0.25P	41
	389.2		11 13 12	NP	13
SAND-brown & gray-medium dense (A-3)		-35	7 13 23	NP	14

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	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
		6 12 15	NP	16
SAND-brown & gray-medium dense (A-3)	-45	10 14 15	NP	16
		11 14 16	NP	15
		11 22 34	NP	16
		15 16 14	NP	16
	-55	8 14 14	NP	14
		14 14 14	NP	11
	-60	10 8 12	NP	14
SAND-brown & gray-medium dense (A-3)		12 14 15	NP	17
	-65	16 21 24	NP	25
		6 5 8	NP	15
	-70	13 20 27	NP	13
		13 16 16	NP	24
	-75	12 12 12	NP	14
		8 8 6	NP	15
	-80	7 7 7	NP	14

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-medium dense (A-3)	339.2		9 7 8	NP	13
SAND with Gravel-brown & gray-medium dense (A-1-b)		-85	9 9 10	NP	16
	334.2		9 11 15	NP	13
SAND-brown & gray-medium dense to dense (A-3)		-90	10 13 13	NP	15
			14 15 15	NP	17
		-95	14 15 15	NP	13
SAND & GRAVEL-brown & gray-very dense (A-1-a)	314.2		19 25 19	NP	17
		-105	27 30 50/3"	NP	17
		-110	50/3"	NP	9
SAND-gray-very dense (A-3)	309.2		24 50/6"	NP	6
	305.7		50/2"	NP	19
Drillers Observation: Apparent Bedrock	304.7	-115			NR
RUN 1 (-115.0' to -125.0') Mississippian System, Valmeyeran Series Limestone					RUN 1
Light gray mottled gray & fine grained with horizontal bedding. Vertical fracture with intersecting horizontal fractures from -115.3' to -116.0'. Horizontal fractures @ -117.3', -117.8', -118.8', -119.1', -119.4', -119.5', -119.8', -120.4', -120.7', -121.2', -121.6', -122.2', -122.5' & -123.0'.		-120			

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