SB-108

SOIL BORING LOG

PAGE 1 of 4
DATE 4/21-23/2009
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-108
Station: 23+53
Offset: 41.0' Right
Ground Surface Elev. 416.3

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	Depth (ft.)	Blows (/6")	UCS Qu (tsf)	Moist (%)
		AS	NP	15
CINDERS, SAND & STONE-black-very loose (Fill)		2		
		1		
		0	NP	20
413.3				
SILTY LOAM w/ Wood-black-very loose (Fill)		1		
		1		
	-5	1	NP	60
410.8				
CINDERS, SAND & STONE-brown-very loose (Fill)		4		
		1		
		1	NP	32
408.3				
SILTY CLAY LOAM-dark brown & gray-medium stiff to stiff (A-4/A-6)		2		
		2		
	-10	3	0.75P	30
		1		
		2		
		2	1.0P	28
	-15	ST	0.75P	29
400.8				
SANDY LOAM-gray-loose (A-2)		3		
		4		
		4	NP	23
	-20	4		
		3	NP	27
SANDY LOAM-gray-loose (A-2)		3		
		2		
		2	NP	25
		3		
		2		
	-25	3	NP	22
390.8				
SILTY CLAY-gray-soft (A-7) Wet		1		64
		1		
		2	0.4B	61
388.3				
SILTY LOAM to LOAM-gray-medium dense (A-4)		7		
		11		
	-30	13	NP	25
		3		
384.3		7		
		10	NP	38
SILTY SANDY CLAY-brown-soft (A-6/A-7) Wet		5		
		3		
	-35	7	0.25P	36
380.3				
Clay seams from -36.0' to -37.5'.		7		
		6		
		7	NP	27
SAND-brown-medium dense (A-3)		5		
		5		
	-40	7	NP	25

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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Stream Bed Elev. n/a
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Upon Completion n/a
After 24 Hrs. n/a

Description	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SAND-brown-medium dense (A-3)		3		
		3		
		7	NP	27
373.3				
SANDY LOAM-gray-loose (A-2)		6		
		7		
	-45	10	NP	32
370.8				
SAND-brown-medium dense (A-3)		8		
		9		
		10	NP	29
		4		
		6		
	-50	8	NP	32
365.8				
SANDY LOAM-gray-loose (A-2)		3		
		4		
		4	NP	36
363.3				
SAND-gray-medium dense to dense (A-3)		5		
		5		
	-55	6	NP	21
		5		
		7		
		7	NP	23
		6		
		12		
	-60	14	NP	22
SAND-gray-medium dense to dense (A-3)		20		
		18		
		15	NP	21
		7		
		8		
	-65	12	NP	22
		9		
		10		
		11	NP	24
		9		
		12		
	-70	13	NP	24
Trace organics from -71.0' to -72.5'.		7		
		10		
		15	NP	26
		7		
		8		
	-75	10	NP	22
		21		
		29		
		23	NP	20
		27		
		30		
	-80	21	NP	19

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After 24 Hrs. n/a

Description	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SAND-gray-medium dense to dense (A-3)		8		
		10		
		10	NP	25
		10		
		13		
	-85	14	NP	19
		17		
		18		
		20	NP	16
328.3				
SAND with Gravel-gray-medium dense (A-1-b)		9		
		9		
	-90	12	NP	15
325.8				
SAND-brown & gray-medium dense to very dense (A-3)		12		
		13		
		16	NP	16
		12		
		10		
	-95	11	NP	16
		21		
		21		
		21	NP	19
		15		
		23		
	-100	35	NP	18
SAND-brown & gray-medium dense to very dense (A-3)		24		
		35		
		42	NP	16
		23		
		35		
	-105	18	NP	17
310.8				
SAND with Gravel-brown & gray-very dense (A-1-b)		42		
		50/2"		
			NP	11
		50/2"		
	-110		NP	12
		29		
		30		
		39	NP	14
		31		
		50/3"		
301.3	-115		NP	12
Drillers Observation: Apparent Bedrock.				
300.3				
RUN 1 (-116.0' to -126.0') Mississippian System, Valmeyeran Series Limestone				RUN 1
Light gray & fine grained with horizontal bedding. Horizontal fractures @ -116.7', -117.3', -117.5', -118.3', -118.8', -119.0' & -119.4'. Horizontal	-120			

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5-11-2011, 9:55:37 NEWMANMD \\FS-0844\PW\VAULT\D-TRANS.07\2202\20868.00\STRUCT\CAD\01 DESIGN\082W309\SHEET\082W309 CONN-18-005-SHT-MS.DGN