SB-129

SOIL BORING LOG

PAGE 1 of 4
DATE 5/7-8/2009
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-129
Station: 1681+48
Offset: 80.5' Left
Ground Surface Elev. 416.8

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 (%)
SANDY LOAM with Cinders-black (Fill)	415.8		AS	NP	12
SILTY CLAY-dark brown, gray & black-soft to stiff (A-7) Wet			1		
			2		
			2	1.25*	25
			0		79
			1		
		-5	1	0.48	40
SILT-brown & gray-loose (A-4)	411.3		2		
			3		
			3	NP	25
		-10	ST	NP	20
			3		
			3		
			3	NP	29
			2		
			2		
		-15	2	NP	29
			2		
			2		
			2	NP	34
SANDY LOAM-brown & gray-very loose to loose (A-2)	398.8		3		
			2		
		-20	3	NP	27
SANDY LOAM-brown & gray-very loose to loose (A-2)			3		
			1		
			2		
			2	NP	30
SAND-brown & gray-medium dense to dense (A-3)	393.8		4		
			6		
		-25	9	NP	26
			8		
			7		
			8	NP	26
			5		
			7		
		-30	15	NP	29
			17		
			22		
			25	NP	22
			16		
			19		
		-35	24	NP	22
			12		
			15		
			25	NP	24
			7		
			6		
		-40	8	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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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-medium dense to dense (A-3)	376.3				
SILTY CLAY LOAM-brown & gray-soft (A-4/A-6) Wet			4		89
			3		
			3	0.38	31
SAND-brown & gray-medium dense (A-3)	373.8		7		
			8		
		-45	10	NP	28
			6		
			6		
			8	NP	26
			5		
			4		
		-50	8	NP	25
			6		
			8		
			10	NP	29
			7		
			7		
		-55	10	NP	28
SANDY LOAM-gray-medium dense (A-2)	361.3		7		
			6		
			10	NP	27
			4		
			5		
		-60	9	NP	27
SANDY LOAM-medium dense (A-2)	356.3				
			6		
			6		
			11	NP	26
			11		
			13		
		-65	12	NP	21
			6		
			13		
			17	NP	23
			11		
			12		
		-70	13	NP	22
			13		
			14		
			9	NP	23
			8		
			11		
		-75	14	NP	26
			9		
			12		
			13	NP	21
SAND with Gravel-brown & gray-medium dense (A-1-b)	338.8		10		
			10		
		-80	10	NP	17

Trace organics from -73.5' to -75.0'.

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND with Gravel-brown & gray-medium dense (A-1-b)			9		
			9		
			9	NP	14
			9		
			9		
		-85	9	NP	12
SAND-brown & gray-medium dense (A-3)	331.3		6		
			13		
			16	NP	15
			12		
			9		
		-90	12	NP	14
			9		
			9		
			10	NP	13
			8		
			12		
		-95	13	NP	17
			11		
			7		
			8	NP	15
			9		
			10		
		-100	10	NP	19
SAND-medium dense (A-3)	316.3		14		
			16		
			22	NP	13
SAND with Gravel-brown & gray-dense to very dense (A-1-b)			25		
			44		
		-105	34	NP	12
			50/5"		
				NP	12
			50/4"		
		-110		NP	11
			20		
			30		
			50/5"	NP	39
			28		
			50/6"		
		-115		NP	27
	300.8				
Drillers Observation: Apparent Bedrock	300.3				
RUN 1 (-116.5' to -126.5') Mississippian System, Valmeyeron Series Limestone					RUN 1
Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -117.1', -117.5', -118.3', -119.5', -119.7', -120.4', -120.7', -121.5'.		-120			

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\\999999999 CONN-99-001-MS.DGN \\B2B318 CONN-99 001 BD.DGN
5-11-2011, 10:02:39 NEWMANND \\FS-0044\MV\VAULT_D-TRANS_07\2202\20868-001\STRUCT\CAD\01 DESIGN\082W309\SHEET\082W309-CONN 10 025 SH1-MS.DGN

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION I-70 CONNECTION RETAINING WALL	SOIL BORING LOGS 25 OF 26	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - TCG	REVISED -			998	82-2-1HVB-1	ST. CLAIR	345	311
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED -	REVISED -			SN 082-W309		CONTRACT NO. 76D05		
	PLOT DATE = $DATE$	DATE - 05/13/11	REVISED -		SCALE: SHEET NO. RB-31 OF RB-32 STA. 801+75.00 TO STA. 809+75.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		