SB-127

SOIL BORING LOG

PAGE 1 of 4
DATE 4/23-19/2009
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. 082-0328
Station: --
BORING NO. SB-127
Station: 1683+45
Offset: 0.5' Left
Ground Surface Elev. 416.5

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After 24 Hrs. 397.6

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CINDERS, SAND & STONE-black-medium dense (Fill)	413.5		AS / 9 / 6	NP	23
SANDY LOAM-brown-very loose (A-2)	411.0	-5	3 / 1 / 1	NP	12
SILTY CLAY-brown & gray-medium stiff to stiff (A-7) Wet	406.0	-10	1 / 1 / 2	0.75P	46
SILT-brown-loose (A-4)	403.5		ST	1.25P	47
SAND-brown-loose (A-3)	401.0	-15	2 / 2 / 2	NP	27
SILT-brown-medium dense (A-4)	398.5		3 / 3 / 2	NP	28
SAND-brown-medium dense (A-3)		-20	6 / 7 / 5	NP	22
SAND-brown-medium dense (A-3)		-25	4 / 6 / 6	NP	23
SANDY LOAM-brown & gray-loose (A-2)	391.0	-30	5 / 5 / 2	NP	25
		-35	3 / 3 / 2	NP	26
		-40	2 / 2 / 2	NP	28
		-45	3 / 3 / 2	NP	31
		-50	2 / 2 / 2	NP	29
		-55	3 / 3 / 2	NP	32
		-60	4 / 4 / 2	NP	30

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 (%)
SANDY LOAM-loose (A-2)	376.0				
SANDY LOAM-dark gray-very loose to loose (A-2)	361.0	-45	2 / 2 / 1	NP	26
SAND-gray-medium dense to dense (A-3)		-50	0 / 1 / 1	NP	27
		-55	0 / 1 / 1	NP	30
		-60	1 / 2 / 1	NP	28
SAND-gray-medium dense to dense (A-3)	353.5	-65	2 / 3 / 1	NP	29
SAND with Gravel-gray-medium dense (A-1-b)	348.5	-70	7 / 8 / 9	NP	14
SAND-gray-medium dense (A-3)	343.5	-75	8 / 10 / 12	NP	13
SAND with Gravel-brown & gray-medium dense (A-1-b)	341.0	-80	11 / 11 / 13	NP	22
SAND-brown & gray-medium dense (A-3)			9 / 14 / 13	NP	18
			13 / 20 / 20	NP	23

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After 24 Hrs. 397.6

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-brown & gray-medium dense (A-3)			10 / 10 / 15	NP	18
		-85	7 / 7 / 9	NP	18
		-90	15 / 12 / 10	NP	18
	326.0		7 / 9 / 10	NP	16
SAND with Gravel-brown & gray-medium dense (A-1-b)			12 / 12 / 13	NP	12
		-95	12 / 11 / 13	NP	16
		-100	11 / 13 / 15	NP	14
SAND with Gravel (A-1-b)	316.0		17 / 19 / 40	NP	13
SAND-brown & gray-medium dense to dense (A-3)	311.0	-105	13 / 18 / 16	NP	17
SAND with Gravel-brown & gray-very dense (A-1-b)	308.5		14 / 26 / 37	NP	10
SAND & GRAVEL-brown & gray-very dense (A-1)	303.5	-110	50/2" / 50/4"	NP	12
SAND with Gravel-brown & gray-very dense (A-1-b)	302.0	-115	37 / 50/3"	NP	10
Drillers Observation: App. Bedrock.	301.5			NP	14
RUN 1 (-115.0' to -125.0') Mississippian System, Valmeyeron Series Limestone. Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -115.7', -116.2', -116.4', -116.8', -117.2', -118.1', -118.8', -119.5', -120.0', -120.3', -120.9', -121.9', -122.6', -123.0', -123.6' & -124.2'.		-120	RUN 1		

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...\99999999-CONN-99-001-MS.DGN, ...\082031B-CONN-99-001-BG.DGN
5-11-2011, 9:55:03 NEWMANMD \\FS-0244\AM\VAULT\D-TRANS_07\2202\20868 001\STRUCT\CAD\01 DESIGN\0820328\SHEET\0820328-CONN 10 020 SHT-MS.DGN

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN - TCG	REVISED -
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - JLR	REVISED -
	PLOT DATE = $DATE$	DATE - 05/13/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 3 OVER I-70

SOIL BORING LOGS
16 OF 21

SCALE: | SHEET NO. SA-52 OF SA-57 | STA. 1683+43.17 TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	187
	SN 082-0328	CONTRACT NO. 76D05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		