SB-120

SOIL BORING LOG

PAGE 1 of 4
DATE 4/27-29/2009
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-120
Station: 1683+47
Offset: 46.5' Left
Ground Surface Elev. 415.8

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After 24 Hrs. 393.8

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CRUSHED STONE (Fill)	414.8		AS	NP	5
CINDERS & SAND-black-medium dense (Fill)	412.8		10, 11, 7	NP	20
SILTY LOAM to LOAM-brown-very loose (A-4)	410.3	-5	1, 1, 2	NP	20
SAND-brown-very loose to loose (A-3)	400.3	-10, -15	1, 2, 2, 2, 2, 1, 3, 3, 3, 3, 2, 3	NP, NP, NP, NP	13, 28, 27
SANDY LOAM-brown-loose (A-2)	397.8	-20	2, 3, 3, 5, 6	NP	31, 24
SAND-brown-medium dense to dense (A-3)	377.8		11, 14, 14, 11, 14, 17, 18, 12, 15, 21, 14, 16, 14, 18, 8, 6, 7, 4, 4, 6	NP, NP, NP, NP, NP, NP, NP, NP	25, 22, 20, 27, 25, 23, 24, 29
SANDY LOAM-brown-loose to medium dense (A-2)	365.3	-30, -35, -40			

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-brown-loose to medium dense (A-2)	352.8	-45	4, 4, 6	NP	28
SANDY LOAM-gray-very loose to medium dense (A-2)	350.3	-65	4, 4, 6	NP	35
SAND-gray-very loose (A-3)	347.8	-70	4, 4, 7	NP	31
ORGANIC LOAM-black (A-8)	345.3	-75	5, 10, 11	NP	101
SAND & GRAVEL-brown & gray-loose (A-1)	365.3	-50	3, 2, 5	NP	29
SAND-gray-medium dense to dense (A-3)		-80	13, 18, 13, 9, 11, 14, 13, 16, 19, 10, 12	NP	20, 17, 17, 18
SANDY LOAM-gray-very loose to medium dense (A-2)		-55, -60	1, 1, 2, 2, 4, 5, 5, 9, 10	NP	26, 26, 28

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Upon Completion n/a
After 24 Hrs. 393.8

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-medium dense to dense (A-3)	335.3				
SAND with Gravel-brown & gray-medium dense (A-1-b)	330.3	-85	13, 10, 11, 7, 6, 7	NP	24, 23
GRAVEL-brown & gray-medium dense (A-1-a)	327.8		14, 14, 12	NP	1
SAND-brown & gray-medium dense to dense (A-3)		-90, -95, -100	13, 10, 8, 12, 12, 13, 10, 14, 12, 10, 10, 10, 9, 9, 12	NP, NP, NP, NP, NP	17, 18, 16, 17, 16
SAND-brown & gray-medium dense to dense (A-3)	312.8		19, 24, 35	NP	18
SAND with Gravel-brown & gray-medium dense (A-1-b)	310.3	-105	17, 13, 11	NP	14
SAND & GRAVEL-brown & gray-very dense (A-1)	305.3	-110	50/4", 50/5"	NP, NP	13, 13
SILTY SAND & GRAVEL-brown & gray-very dense (A-2)	302.8		50/5"	NP	18
SAND & GRAVEL-brown & gray-very dense (A-1)	301.3		50/2"		
Drillers Observation: Apparent Bedrock	300.3	-115		NP	17
RUN 1 (-115.5' to -125.5') Mississippian System, Valmeyeron Series Limestone. Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Horizontal fractures @ -115.9' -116.0', -116.5', -117.1', -117.2' & -117.8'. ¼" clay parting @ -118.2'. Horizontal fracture @ -118.6'.		-120			RUN 1

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FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER I-70	SOIL BORING LOGS 5 OF 21	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - TCG	REVISED -			998	82-2-1HVB-1	ST. CLAIR	345 / 176
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - JLR	REVISED -			SN 082-0328		CONTRACT NO. 76D05	
	PLOT DATE = $DATE$	DATE - 05/13/11	REVISED -		SCALE: / SHEET NO. SA-41 OF SA-57 / STA. 1683+43.17 TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

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5-11-2011, 9:54:28 NEWMANMD \\FS 0044\AM\VAULT_D TRANS.07\2282\20868.001\STRUCT\CAD\01 DESIGN\0820328\SHEET\0820328-CONN-10-009-SH1-MS.DGN