SB-112

SOIL BORING LOG

PAGE 1 of 4
DATE 6/3-4/2009
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-112
Station: 52+43
Offset: 51.5' Right
Ground Surface Elev. 416.7

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 (%)
CRUSHED ASPHALT & STONE	415.7		AS	NP	3
SILTY CINDERS & SAND-black-loose (Fill)	413.7		3, 4, 3	NP	26
SILTY CLAY LOAM-brown-loose (A-4)	411.2	-5	1, 2, 3	0.5P	29
SILTY CLAY-brown & gray-medium stiff to stiff (A-4/A-6) Wet	403.7	-10	ST, 1, 1, 2, 2	1.0P, 1.0B, 0.75P	39, 86, 34, 32
SANDY LOAM-brown & gray-loose (A-2)	398.7	-15	1, 3, 3, 3	NP	22
SILTY LOAM-brown & gray-very loose to loose (A-4)	391.2	-25	1, 2, 2	NP	26
SANDY LOAM-brown & gray-loose to medium dense (A-2)	383.7	-30	1, 3, 3, 3	NP	28
SAND-brown & gray-loose to dense (A-3)		-35	7, 10, 12, 9	NP	21
		-40	12, 14, 7, 10	NP	24
		-45	18, 12	NP	15
		-50	14, 6, 9	NP	18
		-55	11, 16, 19	NP	21
		-60	18, 10, 10	NP	13
		-65	11, 8, 8	NP	19
		-70	10, 20, 22	NP	21
		-75	12, 12, 12	NP	12
		-80	8, 8, 12	NP	16
			7, 8, 12	NP	17
			11, 12, 15	NP	18
			10, 15, 23	NP	20
			17	NP	17

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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Upon Completion n/a
After 24 Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-brown & gray-loose to dense (A-3)	326.2	-85	13, 14, 18, 10, 12, 14	NP	19, 15
SAND with Gravel-brown & gray-medium dense (A-1-b)	321.2	-90	10, 10, 11, 8, 10, 9	NP	15, 18
SAND with Gravel-brown & gray-medium dense (A-1-b)	318.7	-95	9, 9, 10, 12, 10, 7	NP	13, 12
SAND with Gravel-dense (A-1-b)	316.2	-100	7, 6, 7, 7, 12, 20	NP	14, 7
SAND-brown & gray-medium dense (A-3)	313.7	-105	14, 8, 11, 16, 19, 24	NP	14, 9
SAND with Gravel-brown & gray-medium dense to dense (A-1-b)	306.7	-110	13, 13, 13, 20, 50/3"	NP	13, 12
Drillers Observation: Cobbles & boulders.	302.2	-115			
Drillers Observation: Apparent bedrock	301.7				
RUN 1 (-115.0' to -115.0') Mississippian System, Valmeyeron Series Limestone. Light gray to gray & fine grained with horizontal bedding and some chert replacement. Horizontal fractures @ -115.7', -115.9', -116.3', -117.1', -117.4', -118.4, -118.6', -119.1', -119.8', -120.0', -120.4', -121.2', -121.6' & -122.1'. ¼" clay parting @ -122.5'. Horizontal fracture @ -123.4'.		-120			RUN 1

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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

\\99999999-CONN-99-001-MS.DGN \\B828319-CONN-99-001-BD.DGN
5/11/2011, 10:00:02 NEWMANMD \\FS-0844\AM\VAULT\D-TRANS_07\2202\28868-001\STRUCT\CADD\01 DESIGN\082W309\SHEET\082W308-CONN 18 013-SHT-MS.DGN

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION
RETAINING WALL

SOIL BORING LOGS
13 OF 20

SCALE: | SHEET NO. RA-18 OF RA-25 | STA. 170+00.00 TO STA. 176+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	273
	SN 082-W308	CONTRACT NO. 76D05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		