SB-121

SOIL BORING LOG

PAGE 1 of 4
DATE 4/27-30/2009
LOGGED BY MR
GSI JOB No. 08201

ROUTE I70/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-121
Station: 1684+69
Offset: 54.0' Left
Ground Surface Elev. 416.0

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 (%)
CINDERS, STONE & CONCRETE (Fill)	414.5	AS	NP	18
SILTY LOAM with Cinders-brown-loose (Fill)	413.0	4, 4, 5	NP	17
SILTY LOAM-brown-loose (A-4)	410.5	1, 3, 4	NP	24
SAND-brown-loose (A-3)	408.0	1, 2, 3	NP	11
SANDY LOAM-brown-medium dense (A-2)	403.0	5, 2, 6	NP	17
SAND-brown-medium dense to dense (A-3)		3, 5, 6	NP	31
SAND-brown-medium dense to dense (A-3)	390.5	8, 11, 14	NP	25
SANDY LOAM-brown-loose (A-2)	385.5	15, 16	NP	26
SILTY LOAM-dark gray-very loose to loose (A-4)		8, 21, 26	NP	22

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	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SILTY LOAM-dark gray-very loose to loose (A-4)	-45	2, 2, 4	NP	31
	-50	3, 3, 3	NP	28
	-55	3, 3, 3	NP	27
	-60	2, 2, 2	NP	28
	-65	2, 2, 2	NP	30
	-70	2, 1, 1	NP	30
	-75	8, 11, 10	NP	27
	-80	5, 7, 6	NP	25
SAND-gray-medium dense (A-3)	353.0	5, 10, 12	NP	18
SAND with Gravel-brown & gray-medium dense (A-1-b)	348.0	9, 9, 8	NP	13
SAND-gray-dense (A-3)	345.5	11, 12, 11	NP	14
SAND with Gravel-brown & gray-medium dense (A-1-b)	343.0	10, 14, 16	NP	19
SAND-gray-medium dense to dense (A-3)		8, 10, 7	NP	16
SAND-gray-medium dense (A-3)	360.5	9, 9, 9	NP	18
		12, 16, 15	NP	19
		13, 21, 17	NP	16

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BORING NO. SB-121
Station: 1684+69
Offset: 54.0' Left
Ground Surface Elev. 416.0

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 (%)
SAND-medium dense to dense (A-3)	335.5			
SAND with Gravel-brown & gray-medium dense (A-1-b)		9, 11, 12	NP	14
	-85	12, 8, 9	NP	13
		11, 10, 9	NP	11
SAND & GRAVEL-brown & gray-medium dense to dense (A-1)	328.0	11, 19, 16	NP	14
	-90	13, 14, 14	NP	10
SAND-brown & gray-medium dense to dense (A-3)	323.0	4, 5, 9	NP	13
	-95	12, 12, 15	NP	16
	-100	12, 18, 27	NP	15
SAND-medium dense to dense (A-3)	315.5			
SAND & GRAVEL-brown & gray-dense (A-1)	313.0	41, 38, 19	NP	8
SAND with Gravel-brown & gray-dense to very dense (A-1-b)		15, 15, 15	NP	12
	-105	50/6"	NP	14
	-110	50/2"	NP	15
SAND-brown & gray-very dense (A-3)	305.5	26, 34, 42	NP	1'
	302.0	50/5"	NP	14
Drillers Observation: Apparent Bedrock.	301.6			
RUN 1 (-114.4' to -124.4') Mississippian System, Valmeyeron Series Limestone. Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -114.5', -115.1', -116.5', -117.3', -117.5', 117.7', -118.5', -118.7', -119.1', 119.5', -119.7', -119.9', -120.8', 121.2', -122.0', -122.1', -122.5' & -122.6'. Thin clay parting @ -122.7'. Horizontal fracture @ -123.3'.	-115			RUN 1
	-120			

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FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN - TCG	REVISED -
TENG 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
10 OF 21

SCALE: | SHEET NO. SA-46 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	181
	SN 082-0328	CONTRACT NO. 76D05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

$$$$$$$$$$-CONN-99-001-MS.DGN ..\082831B-CONN-99-001-BD.DGN
5-11-2011, 9:54:44 NEWMANND \\FS0044\MPVAULT\D-TRANS.07\2202\20868.00\STRUCT\CAD\01 DESIGN\0820328\SHEET\0820328-CONN-10-014-SHT-MS.DGN