SB-126

SOIL BORING LOG

PAGE 1 of 4
DATE 4/29-30/2009
LOGGED BY DR
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-W309
Station: --
BORING NO. SB-126
Station: 1581+98
Offset: 39.5' 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. 395.7

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
415.9				9.0" TOPSOIL-block
	AS	-	33	
	1			SILTY LOAM-dark brown-very loose (A-4)
	1			
	2	NP	21	
413.7				
	1			SANDY LOAM-brown-very loose (A-2)
	1			
-5	2	NP	30	
411.2				
	1		79	SILTY CLAY-brown-stiff (A-7) Wet
	2	1.2S@		
	2	12.7%	39	
408.7				
				SILT-brown & gray-loose (A-4)
-10	ST	NP	26	
	2			
	2			
	2	NP	29	
	2			
	1			
-15	6	NP	33	
401.2				
	5			SAND-brown-medium dense (A-3)
	7			
	5	NP	22	
398.7				
	1			SILTY CLAY LOAM-brown-medium dense (A-4) Wet
	5			
-20	8	NP	34	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
395.7				SILTY CLAY LOAM-brown-medium dense (A-4) Wet
	5			
	11			
	11	NP	25	SAND-brown-medium dense (A-3)
393.2				
	1			SILTY CLAY LOAM-brown-very loose (A-4) Wet
-25	1	NP	38	
391.2				
	3			SANDY LOAM-brown & gray-very loose to loose (A-2)
	2			
-30	3	NP	34	
	1			
	2			
-35	3	NP	33	
	3			
	2			
	3	NP	27	
	2			
-40	5	NP	29	

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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After 24 Hrs. 395.7

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	3			
	3			
	5	NP	32	
	3			
-45	6	NP	31	SANDY LOAM-brown & gray-very loose to loose (A-2)
	3			
	3			
	6	NP	32	
	2			
-50	3	NP	32	
	1			
	0			
	4	NP	32	
	3			
-55	4	NP	28	
	2			
	3			
	4	NP	27	
	3			
-60	8	NP	28	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
356.2				SANDY LOAM-very loose to loose (A-2)
	8			
	12			SAND-brown-medium dense (A-3)
	14	NP	24	
353.7				
	8			SAND-gray-medium dense (A-3)
	11			
-65	9	NP	18	
351.2				
	0			WOOD (A-8)
	2			
	9	NP	525	
348.7				
	9			SAND-brown & gray-dense (A-3)
	13			
-70	18	NP	16	
346.2				
	16			SAND & GRAVEL-brown & gray-medium dense (A-1)
	13			
	15	NP	8	
341.2				
	9			SAND-brown & gray-dense (A-3)
	8			
	10	NP	17	
	9			
-80	9	NP	16	

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After 24 Hrs. 395.7

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
336.2				SAND-brown & gray-dense (A-3)
	12			
	11			SAND with Gravel-brown & gray-medium dense (A-1-b)
	12	NP	13	
333.7				
	8			SAND-brown & gray-medium dense (A-3)
	11			
-85	13	NP	17	
331.2				
	9			Trace organics from -86.0' to -87.5'.
	10			
	12	NP	15	
	13			
	8			SAND with Gravel-brown & gray-medium dense (A-1-b)
-90	7	NP	17	
	10			
	9			
	10	NP	18	
	8			
	9			
-95	10	NP	16	
	9			
	8			
	11	NP	16	
	9			
	12			
-100	13	NP	15	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
316.2				SAND with Gravel (A-1-b)
	14			
	21			
	25	NP	17	SAND-brown & gray-dense to very dense (A-3)
	50/4"			
-105		NP	NR	
	15			
	50/5"			
		NP	15	
308.7				
	42			
	50/5"			SAND with Gravel-brown & gray-very dense (A-1-b)
-110		NP	13	
	50/1"			
		NP	NR	
	50/2"			
-115		NP	NR	
301.2				
				RUN 1 (-115.5' to -125.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Weathered to -116.4'. Horizontal fractures @ -115.9', -116.3', -116.4', -116.9', -117.4', -117.8', -118.1', -118.4', -118.8', -119.1', -119.4', -119.6', -120.1' & -120.5'. ½" clay parting @ -120.6'. RUN 1
-120				

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..\99999999-CONN-99-001-MS.DGN ..\082838-CONN-99-001-BO.DGN
5-11-2011, 9:54:56 NEWMANMD \\FS-0044\VM1\VAULT_D-TRANS.07\2202-20868 001\STRUCT\CADD\01 DESIGN\082832SB\SHEET\082832SB CONN-10 018 SHT-MS.DGN

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

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

SOIL BORING LOGS
14 OF 21

SCALE: | SHEET NO. SA-50 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	185
	SN 082-0328	CONTRACT NO. 76D05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		