SOIL BORING LOG

PAGE 1 of 3
DATE 6/22-23/2011
LOGGED BY DR
GSI JOB No. 10193

ROUTE FAI Rte. 1199 DESCRIPTION I-94 Interchange & Bridge Reconstruction, IDOT Job# D-91-019-11
SECTION 49-1(HB&HB-1)R LOCATION Newport Township, Sections 4 & 9, T 46 N, R 11 E, 3rd PM
COUNTY Lake DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 049-0089 & 049-0078
Station 12+63 & 14+13
BORING NO. SB-02
Station 13+21
Offset 20' Left
Ground Surface Elev. 751.2

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry to 10'
Upon Completion n/a
After ___ Hrs. ___

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
13.5" CONCRETE	750.1				
SAND & GRAVEL-brown-medium dense (Fill) (Bott. W. Abut. El. 748.00)			14		
			16		
			13	NP	5
			8		
			7		
		-5	7	NP	4
CLAY LOAM-brown & gray-stiff to very stiff (A-6) Fill	745.7				
			5		
			5		
			7	2.5P	15
			3		*110*
		-10	6	2.4B	20
			3		*113*
			3		
			3	2.25B	18
			5		*112*
		-15	7	1.9B	19
			5		
			5		
			5	2.5P	26
			3		
		-20	4	2.0P	22
CLAY LOAM-brown & gray-stiff to very stiff (A-6) Fill			7		
			15		
			20	2.5P	19
			5		
			7		
		-25	14	2.0P	29
CLAY-brown & gray-hard (A-6)	725.7				
			10		*121*
			17		
			22	5.4B	15
			12		
		-30	19		
			26	4.5P	16
	719.2				
CLAY-gray-stiff to very stiff (A-6)			5		*109*
			7		
		-35	11	3.4B	20
			4		*121*
			6		
		-40	8	1.3B	15

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 ___ Hrs. ___

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff (A-6)		8		*115*
		10		
	-45	12	1.6B	17
		4		*116*
		6		
	-50	8	1.8B	17
		3		*100*
		5		
	-55	6	1.7B	25
		4		*104*
		6		
	-60	6	1.4B	23
CLAY-gray-stiff to very stiff (A-6)		7		*123*
		7		
	-65	11	1.8B	14
		4		
		4		
	-70	6	–	26
		5		*107*
		7		
	-75	7	2.9B	21
		4		*109*
		4		
	-80	6	3.1B	20

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Upon Completion n/a
After ___ Hrs. ___

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff (A-6)			4		*101*
			5		
		-85	6	1.0B	22
	664.2				
			8		*94*
			10		
		-90	12	1.4B	29
CLAY-gray-stiff (A-6/A-7) Wet			3		*87*
			4		
		-95	5	1.0B	35
End Of Boring @ -100.0			4		*91*
Hollow Stem Augers To -10.0'			4		
Rotary Drilling To Completion			5	1.0B	31
10.0' Of 4.0"ø Casing Used					
CME Automatic Hammer	651.2	-100			
			7		
			11		
		-105	14	1.0B	19
			7		
			7		
		-110	9	1.1B	21
			5		
			7		
		-115	9	1.1B	20
			5		
			7		
		-120	9	1.1B	19

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BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

FILE NAME =	USER NAME =	DESIGNED - MRM	REVISED -
		CHECKED - TL	REVISED -
	PLOT SCALE =	DRAWN - MTR	REVISED -
	PLOT DATE =	CHECKED - SF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS I
STRUCTURE NO. 049-0534
SHEET NO. S-28 OF S-31 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1199	49-1(HB & HB-1)R	LAKE	225	175

CONTRACT NO. 60L76
ILLINOIS FED. AID PROJECT

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