SOIL BORING LOG

PAGE 1 of 2
DATE 6/28/2011
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. 049-0078
Station 14+13
BORING NO. SB-06
Station 14+24
Offset 52' Right
Ground Surface Elev. 729.7

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 724.7
Upon Completion n/a
After ____ Hrs. ____

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" ASPHALT	728.9				
			3		*115*
			4		
			4	NP	5
SAND-brown-very loose to loose (A-3) Apparent Fill					
			3		*114*
			2		
	724.7	-5	2	NP	7
CLAY-gray- stiff to very stiff (A-6)					
			6		*112*
			10		
			13	7.3B	17
CLAY LOAM-brown & gray- hard (A-6)					
			5		*111*
			8		
		-10	13	8.4B	18
			5		*111*
			11		
			14	6.2B	18
	716.7				
			5		
Sand seams from -13.5' to -15.0'.			13		
		-15	11	-	17
CLAY-gray- stiff to very stiff (A-6)					
			8		
			18		
			17	2.25P	15
			18		*118*
			11		
		-20	6	2.8B	14

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
			5		*115*
			7		
			10	1.8B	17
			3		*114*
			4		
CLAY-gray- stiff to very stiff (A-6)		-25	7	1.7B	17
			3		*121*
			4		
			6	1.7B	12
			5		
			6		
		-30	6		NR
	697.7				
			3		
			4		
CLAY-gray- medium stiff to stiff (A-6)		-35	5	0.75P	27
			2		*102*
			4		
		-40	5	1.1B	24

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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Stream Bed Elev. n/a
Groundwater Elevation:
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Upon Completion n/a
After ____ Hrs. ____

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
			2		*100*
			3		
		-45	5	1.7B	25
CLAY-gray- medium stiff to stiff (A-6)					
			2		*105*
			3		
		-50	6	1.7B	21
			4		
			5		
		-55	7	1.0P	13
			2		*104*
			4	0.7S@	
		-60	5	11.3%	23

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray- medium stiff to stiff (A-6)					
	667.7				
			3		
CLAY-gray-stiff (A-6/A-7) Wet					
		-65	3	1.25P	32
	662.7				
			4		*105*
CLAY LOAM-gray-stiff (A-6)					
		-70	6	1.25B	22
	657.7				
			4		*92*
			6		
		-75	6	1.5B	29
CLAY-gray-stiff (A-6/A-7) Wet					
			3		*97*
End Of Boring @ -80.0 Hollow Stem Augers To -10.0' Rotary Drilling To Completion 10.0' Of 4.0"ø Casing Used CME Automatic Hammer			4		
	649.7	-80	5	1.4B	27

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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 III
STRUCTURE NO. 049-0534
SHEET NO. S-30 OF S-31 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1199	49-1(HB & HB-1)R	LAKE	225	177

CONTRACT NO. 60L76
ILLINOIS FED. AID PROJECT

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