SOIL BORING LOG

PAGE 1 of 2
DATE 6/27/2011
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
Station 12+63
BORING NO. SB-05
Station 12+89
Offset 51' Right
Ground Surface Elev. 733.4

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 725.4
Upon Completion n/a
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" TOPSOIL-black	732.4		AS	-	15
CLAY-brown & gray-stiff (A-6) Fill			2		106
			4	1.7B	19
			4		106
			5	1.9S@	
		-5	5	12.7%	19
			2		92
			2		
			4	1.1B	27
	725.4				
SILTY CLAY-brown & gray-medium stiff (A-6)			1		
			1		
		-10	2	0.75P	23
	722.9				
CLAY LOAM-brown-stiff to very stiff (A-6)			5		114
			6		
			11	2.7B	16
			7		114
			7		
		-15	9	2.6B	15
			9		113
			16		
			18	1.8B	18
	715.4				
CLAY-gray-stiff to hard (A-6)			6		115
			9		
		-20	12	5.7B	16
CLAY-gray-stiff to hard (A-6)			7		109
			10		
			17	4.0B	19
			4		117
			6		
		-25	9	1.6B	15
	707.9				
CLAY-gray-stiff (A-6/A-7) Wet			3		93
			5		
			7	1.7B	30
	705.4				
CLAY-gray-stiff (A-6)			5		115
			5		
		-30	9	1.5B	15
			5		114
			6		
			11	2.7B	16
			7		114
			7		
		-35	9	1.0B	16
			9		111
			11		
			14	1.8B	18
		-40	5	1.3B	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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BORING NO. SB-05
Station 12+89
Offset 51' Right
Ground Surface Elev. 733.4

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 725.4
Upon Completion n/a
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff (A-6)					
	691.4				
CLAY-gray-stiff (A-6/A-7) Wet			2		92
			3		
		-45	5	1.2B	30
			2		97
			3		
		-50	4	1.7B	27
	681.4				
CLAY-gray-stiff to very stiff (A-6)			2		103
			3		
		-55	5	1.6B	23
			2		104
			3		
		-60	5	1.7B	23
CLAY-gray-stiff to very stiff (A-6)			3		105
			3		
		-65	5	2.1B	22
			4		105
			4		
		-70	6	1.5B	23
			3		102
			4		
		-75	5	1.2B	21
			4		106
			4		
	653.4	-80	7	1.1B	22

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

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
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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				
SAND-brown-very loose to loose (A-3) Apparent Fill			3		
			4		
			4	NP	5
			3		
			2		
	724.7	-5	2	NP	7
CLAY LOAM-brown & gray-hard (A-6)			6		112
			10		
			13	7.3B	17
			5		111
			8		
		-10	13	8.4B	18
			5		111
			11		
			14	6.2B	18
	716.7				
Sand seams from -13.5' to -15.0'.			5		
			13		
		-15	11	-	17
CLAY-gray-stiff to very stiff (A-6)			8		
			18		
			17	2.25P	15
			18		118
		-20	6	2.8B	14
CLAY-gray-stiff to very stiff (A-6)			5		115
			7		
			10	1.8B	17
			3		114
			4		
		-25	7	1.7B	17
			3		121
			4		
			6	1.7B	12
			5		
			6		
		-30	6		NR
	697.7				
CLAY-gray-medium stiff to stiff (A-6)			3		
			4		
		-35	5	0.75P	27
			2		102
			4		
		-40	5	1.1B	24

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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 (%)
CLAY-gray-medium stiff to stiff (A-6)					
	667.7				
CLAY-gray-stiff (A-6/A-7) Wet			2		100
			3		
		-45	5	1.7B	25
			3		
			4		
		-65	4	1.25P	32
	662.7				
CLAY LOAM-gray-stiff (A-6)			2		105
			3		
		-50	6	1.7B	21
			4		105
			6		
		-70	7	1.25B	22
	657.7				
CLAY-gray-stiff (A-6/A-7) Wet			4		92
			6		
		-75	6	1.5B	29
			2		97
			4		
		-80	5	1.4B	27

End Of Boring @ -80.0
Hollow Stem Augers To -10.0'
Rotary Drilling To Completion
10.0' Of 4.0"ø Casing Used
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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 = N.T.S.	DRAWN - MTR	REVISED -
	PLOT DATE = 1/27/2012	CHECKED - SF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS IV
STRUCTURE NO. 049-0533
SHEET NO. S-33 OF S-33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1199	49-1(HB & HB-1)R	LAKE	225	147
		CONTRACT NO. 60L76		
		ILLINOIS FED. AID PROJECT		

1/27/2012 3:50:55 PM
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