

1/27/2012 3:50:53 PM

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SOIL BORING LOG										PAGE 1 of 3	
ROUTE FAI Rte. 1199 DESCRIPTION I-94 Interchange & Bridge Reconstruction, IDOT Job# D-91-019-11										DATE 6/22-23/2011	
SECTION 49-1(HB&HB-1)R LOCATION Newport Township, Sections 4 & 9, T 46 N, R 11 E, 3rd PM										LOGGED BY DR	
COUNTY Lake DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic										GSI JOB No. 10193	
STRUCT. NO. 049-0089 & 049-0078										Surface Water Elev. n/a	
Station 12+63 & 14+13										Stream Bed Elev. n/a	
BORING NO. SB-02										Groundwater Elevation:	
Station 13+21										First Encounter Dry to 10'	
Offset 20' Left										Upon Completion n/a	
Ground Surface Elev. 751.2										After Hrs.	
DEPTH (ft)	BULGE (in)	UCS (tsf)	MOIST (%)	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOIST (%)	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOIST (%)
13.5" CONCRETE											
750.1											
SAND & GRAVEL-brown-medium dense (Fill)											
14				7				15			
16				20	2.5P		19				
13	NP	5									
8				5							
7				7							
-5	NP	4		-25	14	2.0P	29				
745.7				725.7							
5				10			121				
5				17							
7	2.5P	15		22	5.4B		15				
CLAY LOAM-brown & gray-stiff to very stiff (A-6) Fill											
3		110		12							
6				19							
-10	6	2.4B	20	-30	26	4.5P	16				
3		113									
3											
3	2.25B	18		719.2							
5		112		5			109				
7				7							
-15	9	1.9B	19	-35	11	3.4B	20				
CLAY LOAM-brown & gray-stiff to very stiff (A-6)											
5											
5											
5	2.5P	26									
3				4			121				
4				6							
-20	7	2.0P	22	-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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CLAY-gray-stiff to very stiff (A-6)											
8		115		7			123				
10				7							
-45	12	1.6B	17	-65	11	1.8B	14				
CLAY-gray-stiff to very stiff (A-6)											
4		116		4							
6				4							
-50	8	1.8B	17	-70	6		26				
3		100		5			107				
5				7							
-55	6	1.7B	25	-75	7	2.9B	21				
CLAY-gray-stiff (A-6/A-7) Wet											
3		87		3			87				
4				4							
-95	5	1.0B	35	-95	5	1.0B	35				
End Of Boring @ -100.0											
Hollow Stem Augers To -10.0'											
Rotary Drilling To Completion											
10.0' Of 4.0" Casing Used											
CME Automatic Hammer											
651.2-100	5	1.0B	31	-80	6	3.1B	20				

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CLAY-gray-stiff to very stiff (A-6)											
4		101		4			101				
5				5							
-85	6	1.0B	22	-85	6	1.0B	22				
CLAY-gray-stiff (A-6/A-7) Wet											
8		94		8			94				
10				10							
-90	12	1.4B	29	-90	12	1.4B	29				
3		87		3			87				
4				4							
-95	5	1.0B	35	-95	5	1.0B	35				
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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 II
STRUCTURE NO. 049-0533

SHEET NO. S-31 OF S-33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1199	49-1(HB & HB-1)R	LAKE	225	145
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				