SOIL AND MATERIAL CONSULTANTS, INC.

File No. 20707 **BORING LOG** 4

Client Ciorba Group, Inc. Sheet 1 of 2

Comments _____ Project Rollins Road Crossing Date 7/31/12

Millennium Trail Project - 1B

Location Lake County, IL Drilled By AC

Equipment [X] CME 45B [ ] H.A. [ ] Other Logged By DA

Elev., ft. 100.7'	Description	Depth, ft. 0	S	T	R	B	N	Pen.	W	Uw	Qu
	Limestone,damp,medium dense					6					
			1			6			2.1		
			2	SS	16"	6	12	4.5+	12.6		
	Brown-dark brown-black clay & silt,trace sand & gravel,damp, tough - Fill					3					
			3			3		3.0	14.4		
5			4	SS	18"	3	6	1.75	25.2	101.2	2.4
	Brown-gray clay,some silt,trace sand,damp-very damp,very tough to stiff					1					
			5	SS	18"	2	3	0.5	30.0	95.9	0.7
	Brown clay,some silt,trace sand & gravel,damp,very tough					4					
10			6	SS	18"	5	9	3.75	14.8	121.9	3.3
			7	SS	18	5	10	2.75	15.1	121.9	3.3
	Gray clay,some silt,trace sand & gravel,damp,very tough					3					
15			8	SS	18"	7	12	2.5	13.2	129.8	2.3
	Gray silt,some sand & clay, very damp,loose		9			4			12.4		
	Gray clay,some silt,trace sand & gravel,damp,very tough		10	SS	18"	7	12	3.0	15.1	127.0	3.5
						4					
20			11	SS	18"	8	13	3.0	14.1	138.9	2.7

Water Level — depth, ft. elev., ft.
- while drilling: 15.5 _____
- after drilling: 17.0 _____
- hrs. after drilling: _____ _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
Pen. - pocket penetrometer reading, tons/ sq. ft.. Uw - dry unit weight of soil, lbs./ cu.ft.
Qu - unconfined compressive strength, tons./ sq. ft..

F-111b

SOIL AND MATERIAL CONSULTANTS, INC.

File No. 20707 **BORING LOG** 4

Client Ciorba Group, Inc. Sheet 2 of 2

Comments _____ Project Rollins Road Crossing Date 7/31/12

Millennium Trail Project - 1B

Location Lake County, IL Drilled By AC

Equipment [X] CME 45B [ ] H.A. [ ] Other Logged By DA

Elev., ft.	Description	Depth, ft. 20	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray clay,some silt,trace sand & gravel,damp,very tough to tough					5					
			12	SS	18"	6	14	3.25	14.6	131.6	3.1
						8					
						5					
			13	SS	18"	6	13	2.5	11.4	132.1	1.5
25						7					
	Gray silt,trace fine sand & clay, very damp,medium dense		14			5			18.7		
	Gray fine-medium sand,some coarse sand & gravel,very damp-saturated, medium dense		15	SS	18"	6	15		16.4		
						9					
	Gray silt,some clay,trace sand & gravel,damp,medium dense					5					
30			16	SS	18"	8	18		12.8		
	End of Boring					10					
35											
40											

Water Level — depth, ft. elev., ft.
- while drilling: 15.5 _____
- after drilling: 17.0 _____
- hrs. after drilling: _____ _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
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Qu - unconfined compressive strength, tons./ sq. ft..

F-111b

N:\PROJ\00200807.01\L.Rollins\Design\Structural\CAD\Mill Creek Bridge\Mill_Creek_Bridge_04_Soil_Borings.dgn

Ciorba Group, Inc. CONSULTING ENGINEERS 1807 North Commonwealth Avenue Glenview, Illinois 60025 Tel 773.777.4200 Fax 773.775.4014 Email ciorba@ciorba.com

USER NAME = rdanley	DESIGNED - SMY	REVISED -
	CHECKED - BWS	REVISED -
PLOT SCALE = 0.083333 ' / in.	DRAWN - RD	REVISED -
PLOT DATE = 4/8/2013	CHECKED - BWS	REVISED -

MILLENNIUM TRAIL
LAKE COUNTY FOREST PRESERVES

SOIL BORING
MILLENNIUM BIKE PATH OVER MILL CREEK BRIDGE
SHEET NO. SA-4 OF SA-4 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-F3000-01-BT	LAKE	118	65
		CONTRACT NO. 63807		
	ILLINOIS FED. AID PROJECT			