SOIL AND MATERIAL CONSULTANTS, INC.

File No. 19664 **BORING LOG** 1

Client Bollinger, Lach & Assoc., Inc. Sheet 4 of 4

Comments

Project Blivin St. bridge over Nipper-sink Creek Structural #056-3024 Date 6/11/09

Location McHenry Co., IL Drilled By AC

Equipment ☒CME 45B ☐H.A. ☐Other Logged By DA

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray fine-medium sand,some coarse sand & gravel,very damp, medium dense	60									
						7 10					
		65	19	SS	18"	19	29		7.7		
						8 13					
		70	20	SS	18"	18	31		7.3		
						14 15					
		75	21	SS	18"	18	33		11.0		
690.9'											
	Gray fine-medium sand,some coarse sand & gravel,very damp, medium dense					9 15					
688.4'		80	22	SS	18"	13	28		9.3		

Water Level — depth, ft. elev., ft.
- while drilling: 6.0
- after drilling: 6.0
- 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. 19664 **BORING LOG** 2

Client Bollinger, Lach & Assoc., Inc. Sheet 1 of 4

Comments

Station 213+57 - 25' R. CL

Project Blivin St. bridge over Nipper-sink Creek - Structural #056-3024 Date 7/6/09

Location McHenry Co., IL Drilled By AC

Equipment ☒CME 45B ☐H.A. ☐Other Logged By DA

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
751.8'	Black fine sand & silt,trace roots, damp (topsoil)	0	1	J					17.9		
750.3'			2			1			10.8		
749.8'	Brown fine sand,damp,very loose ▼					4					
748.8'	Dark brown-gray silt,some sand,trace gravel,very damp,loose ▽		3	SS	16"	2	6		16.7		
	Gray fine sand,trace gravel,very damp-saturated,medium dense					4 5					
		5	4	SS	18"	5	10		19.8		
745.8'											
	Gray clay,some silt,trace sand & gravel,damp,very hard					6 13					
			5	SS	18"	20	33	4.5+	10.0	132.7	10.0+
						14 20					
		10	6	SS	18"	34	54	4.5+	10.0	139.2	9.8
						13 16					
			7	SS	18"	20	36	4.5+	10.1	133.2	10.0+
738.8'											
	Gray silt,some clay,trace sand & gravel,damp,very dense					43 75					
		15	8	SS	12"		75+		9.5		
						26 33					
			9	SS	15"	54	87		9.0		
						18 24					
		20	10	SS	18"	35	69		8.6		

Water Level — depth, ft. elev., ft.
- while drilling: 3.0
- after drilling: 2.0
- 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. 19664 **BORING LOG** 2

Client Bollinger, Lach & Assoc., Inc. Sheet 2 of 4

Comments

Project Blivin St. bridge over Nipper-sink Creek - Structural #056-3024 Date 7/6/09

Location McHenry Co., IL Drilled By AC

Equipment ☒CME 45B ☐H.A. ☐Other Logged By DA

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
730.8'	Gray silt,some clay,trace sand & gravel,damp,very dense	20									
						26 31					
	Gray fine sand,trace silt,very damp,very dense		11	SS	18"	42	73		18.0		
728.8'											
	Gray clay & silt,trace sand & gravel,damp,very hard					24 29					
		25	12	SS	18"	21	50	4.5+	8.9	139.1	8.3
725.8'											
	Gray fine-medium sand,some coarse sand & gravel,very damp-saturated,loose to dense					2 3					
			13	SS	16"	4	7		8.7		
						6 12					
		30	14	SS	18"	19	31		11.1		
						7 13					
		35	15	SS	18"	23	36		8.3		
						11 17					
		40	16	SS	18"	26	43		9.2		

Water Level — depth, ft. elev., ft.
- while drilling: 3.0
- after drilling: 2.0
- 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

FILE NAME = W:\755-010 Blivin Phase II\CADD_Sheets\Structural\755-010 SHT-24 S- BORING LOGS.dgn

Bollinger, Lach & Associates, Inc. ITASCA, ILLINOIS	USER NAME = gonzalo	DESIGNED - SRT	REVISED -	McHENRY COUNTY DIVISION OF TRANSPORTATION BLIVIN STREET OVER NIPPERSINK CREEK	SOIL BORING LOGS STRUCTURE NO. 056-3191	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JJI	REVISED -				08-00355-00-BR	MCHENRY	69	49
	PLOT SCALE =	DRAWN - GM	REVISED -					CONTRACT NO. 63583		
	PLOT DATE = 3/25/2011	CHECKED - JJI	REVISED -		SCALE: SHEET NO. 24 OF 28 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		