Illinois Department of Transportation
Division of Highways
S.A.M. Consultants, Inc.

SOIL BORING LOG

Page 1 of 2

Date 5/22/07

ROUTE Thompson Road DESCRIPTION Bridge over Nippersink Creek LOGGED BY Al Rahman

SECTION Wonder Lake, Illinois LOCATION McHenry County, SEC. 12, TWP. T45N, RNG. R7E

COUNTY McHenry DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 056-3096
Station

BORING NO. SB-1
Station 206+96
Offset 4.00ft R
Ground Surface Elev. 816.00 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 801.0 ft ▽
Upon Completion 799.5 ft ▽
After Hrs.

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Approximately 4 inches of ASPHALT	815.60				
FILL: Reddish brown SANDY CLAY LOAM, with gravel (A-2)			7		
			9		3.7
			12		
			5		
			8	1.4	14.1
	811.00		6	B	
FILL: Gray CLAY LOAM, with gravel (A-6)			4		
			4		
			9		
	808.00				
Black CLAY, soft (Buried Topsoil) (A-7)	807.00		3		
Gray CLAY LOAM, with gravel, soft to medium stiff (A-6)			4		30.6
			5		
			2		
			2		
			2		
			1		
			1		69.0
	801.00 ▽		3		
Brown CLAY, with gravel, medium stiff to stiff (A-4)			2		
			2		
			2		11.8
			7		
			7	2.0	
			6	B	
Brown CLAY, with gravel, medium stiff to stiff (A-4) (continued)			5		
			6	4.3	10.3
			10	B	
			5		
			11	7.2	18.6
			16	B	
			8		
			15	0.5	
			25	B	
			5		
			7	4.5	21.7
			12	B	
			4		
			6	3.6	
			10	B	9.6
			4		
			5	2.7	
	781.60		6	B	
Reddish brown CLAY, with gravel, medium stiff to stiff (A-6)			4		
			5		
			9		20.7
			5		
			5		
			8		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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After Hrs.

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Reddish brown CLAY, with gravel, medium stiff to stiff (A-6) (continued)			3		
			5		21.6
			8		
			4		
			5	3.2	18.5
	771.00		6	B	
Brown CLAY, stiff (A-6)			5		
			5		
	768.50		7		
Gray SILT LOAM, medium dense (A-5)			4		
			5		22.2
	766.00		6		
Gray SILTY CLAY, with gravel, medium stiff to stiff (A-6)			3		
			4		
			6		
			3		
			3	1.7	19.3
			5	B	
			3		
			5	1.0	
			6	B	
			4		
			3	0.9	21.0
	755.00		4	B	
Gray SILTY CLAY, trace gravel, medium dense (A-6)			3		
			5	0.8	21.5
			7	B	
			5		
			8		20.3
			8		
			4		
			4		
			8		
			3		
			5		13.8
			7		
	790.00				
			4		
			5		
			7		
			C		

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COUNTY McHenry DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 056-3096
Station

BORING NO. SB-2
Station 208+14
Offset 7.00ft R
Ground Surface Elev. 819.50 ft

Surface Water Elev. 86.00 ft
Stream Bed Elev. 84.00 ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Approximately 3 inches of ASPHALT	819.25				
17 inch reinforced CONCRETE Hollow core bridge deck panels	817.92				
Air					
Water					
	797.92				
Creek sediments					
	796.92				
Purplish gray CLAY LOAM, with gravel, very stiff (A-6)			3		
			6	1.8	12.0
			7	B	
	794.56				
Gray SILTY CLAY LOAM, stiff to very stiff (A-6)			3		
			4	2.1	
			7	B	17.1
			3		
			6	2.2	
			11	B	
			3		
			5	2.0	11.7
			8	B	
			4		
			7	4.1	
			10	S	
					8.7
	783.50				
Gray CLAY LOAM, with gravel, very stiff (A-6)			8		
			5	4.4	
			19	B	
			5		
	780.50				
Purplish brown SILTY CLAY, very stiff to hard (A-6)			8	3.3	11.3
			15	B	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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Stream Bed Elev. 84.00 ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Purplish brown SILTY CLAY, very stiff to hard (A-6) (continued)			4		
			7	3.2	
			12	B	
			4		
			8	2.7	11.8
			11	B	
			8		
			8	2.8	
			10	B	11.2
			6		
			9	2.5	
	769.50		15	B	
Gray SANDY LOAM, with gravel, medium dense to dense (A-2)			6		
			20	2.8	9.7
			16	B	
			7		
	766.50		14		8.8
Gray SANDY LOAM, trace gravel, medium dense to dense (A-3)			19		
			14		
			20		
			41		
	761.50				
Gray LOAM, medium dense to dense (A-3)			9		
			30		18.6
			40		
Gray LOAM, medium dense to dense (A-3) (continued)			10		
			16		
			22		
			16		
			12	1.9	20.8
			16	B	
	753.50				
Pinkish gray CLAY, very stiff (A-4)			8		
			7	2.3	
			11	B	23.1
	750.50		7		
Gray SILTY LOAM, loose to dense (A-3)			8		
			8		
			2		
			2		22.7
			3		
			4		
			8		
			8		19.3
			13		
			10		
			7		
			4		
			5		21.1
			28		

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BBS, from 137 (Rev. 8-99)

SOIL BORING LOGS

THOMPSON ROAD
OVER NIPPERSINK CREEK
SECTION NO. 06-00005-00-BR
McHENRY COUNTY
STATION 206+30.48
STRUCTURE NO. 056-6006

DATE: 11/18/09

FILE NAME: 080563_Bor01.dgn11/30/2009
PLOT DRIVER: pdf.pltl
PEN TABLE: standard-trans.tbl

DESIGNED	MGH/JPG
CHECKED	KMA
DRAWN	WJH
CHECKED	RGD

Illinois Professional Design Firm # 184-000108
SEC GROUP, INC.
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www.secgroupinc.com
• McHenry, IL • Yorkville, IL • New Lenox, IL • Chicago, IL

SHEET NO. S-24	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	4081	06-00005-00-BR	McHENRY	45	35
S-25 SHEETS			CONTRACT NO. 63409		
	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		