BORING LOG SB-11 (Page 1)

Kaskaskia Engineering Group, LLC

SOIL BORING LOG

Page 1 of 2

Date 5/18/11

ROUTE FAP 103 DESCRIPTION IL 15 over IL 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG

SECTION 27-1-VHB-1 LOCATION Belleville, Illinois

COUNTY St. Clair DRILLING METHOD CME 55 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-0051/0052
Station

BORING NO. SB-11
Station 709+76.68
Offset 59.1 ft RT
Ground Surface Elev. 465.03 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 450.0 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Crushed rock and asphalt millings, trace clay			8		
			14	---	10
	462.5		24		
No recovery FILL: Rock, with gray silt			3		
			3	---	---
	460.0	-5	3		
Top 1 inch - crushed rock fill CLAY: Gray and brown (A-7)			1		
			2	1.2	29
			3	S	
				---	26
	454.5	-10			
SILTY CLAY: Brown (A-6)			WOH		
			2	0.4	26
			2	S	
				0.8	26
		▼-15			
			1		
			2	0.9	24
			3	S	
Becomes brown and gray			1		
			2	1.2	22
	445.0	-20	2	S	
SILTY SAND: Gray and brown (A-3)			1		
			2	---	20
	442.5		4		
SAND: Orangish brown and gray, fine to medium, trace coal layers, trace clay layers (A-3)	441.0			---	20
SANDY CLAY: Yellowish gray, with iron nodules, trace gravel (A-6)	440.0	-25			
Top 1 inch - coarse sand CLAY: Gray, trace gravel, with fine sand seam (A-7)	437.5		3		
			5	1.8	22
			5	S	
CLAYEY SILT: Gray (A-4)			6		
			5	1.8	20
		-30	6	S	
	430.0	-35		2.0	19
CLAY: Gray, trace fine sand (A-7)					
			3		
			5	2.8	22
	425.0	-40	8	S	

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, form 137 (Rev. 8-99)

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Page 2 of 2

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First Encounter 450.0 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILT: Dark gray (A-4)					
			6		
			11	4.4	21
		-45	13	S	
				---	19
		-50			
Trace gravel			5		
			7	2.2	18
	410.0	-55	9	S	
SILTY CLAY: Dark brown and gray (A-6)					
			4		
			3	0.9	24
		-60	4	S	
SILTY CLAY: Dark brown and gray (A-6) *(continued)*					
Becomes brown				1.7	22
	400.0	-65			
CLAY: Greenish gray (A-7)					
			4		
			4	2.2	20
		-70	6	S	
			4		
			5	1.7	29
		-75	6	S	
With weathered limestone	387.0				
End of Boring			44		
			50/5"		19
		-80			

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BBS, form 137 (Rev. 8-99)

FILE NAME = 082w312_76884_006_BoringLogs3.dgn

ZROKA engineering
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

USER NAME = Scott Whitney	DESIGNED - PMM	REVISED -	
	CHECKED - DAZ	REVISED -	
PLOT SCALE = 0:2.0000 ':' / IN.	DRAWN - SAW	REVISED -	
PLOT DATE = 10/18/2011	CHECKED - PMM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 3
STRUCTURE NO. 082-W312

SHEET NO. 6 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	239
		CONTRACT NO. 76884		
	ILLINOIS	FED. AID PROJECT		