Illinois Department of Transportation
Division of Highways
Kaskaskia Engineering Group, LLC

SOIL BORING LOG

Date 2/18/10

ROUTE FAP 534 (IL 94/IL 116) DESCRIPTION IL 94 over Ellison Creek LOGGED BY KEG

SECTION 109BR-1 LOCATION Media TWP, NW 1/4, Sec 18, T9N, R4W and NE1/4 Sec 13, T9N, R5W

COUNTY Henderson DRILLING METHOD CME 55LC w/ HSA/Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 036-0004
Station

BORING NO. AN-BH#2
Station 269+65
Offset 12.0 ft Lt
Ground Surface Elev. 599.98 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 579.0 ft ▼
Upon Completion - ft
After - Hrs. - ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Grayish brown, trace fine gravel, organics (A-7) (continued)					
Becomes brown			4		
			6	1.3	21
		-85	8	B	
Mud rotary drilling started at 85 feet.					
	512.98				
SAND: Brown, fine to medium, trace fine gravel (A-3)					
			7		
			9	NC	
		-90	9		
	506.98				
CLAYEY SHALE: Brown					
			3		
			11	NC	17
		-95	27		
Becomes gray			29		
			50	NC	16
		-100			

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAYEY SHALE: Brown (continued)					
Becomes brown			50/3"	NC	15
			50/2"		
		-105			
	490.98		50/3"	NC	27
End of Boring			50/2"		
		-110			
		-115			
		-120			

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)

Illinois Department of Transportation
Division of Highways
Kaskaskia Engineering Group, LLC

SOIL BORING LOG

Date 2/16,17/2010

ROUTE FAP 534 (IL 94/IL 116) DESCRIPTION IL 94 over Ellison Creek LOGGED BY KEG

SECTION 109BR-1 LOCATION Media TWP, NW 1/4, Sec 18, T9N, R4W and NE1/4 Sec 13, T9N, R5W

COUNTY Henderson DRILLING METHOD CME 55LC w/ HSA/Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 036-0004
Station

BORING NO. PN-BH#1
Station 270+11
Offset 47.0 ft Rt
Ground Surface Elev. 591.51 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 580.5 ft ▼
Upon Completion - ft
After - Hrs. - ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL, ROCK, and ORGANICS	590.51				
FILL: Brown, sandy clay loam (A-4)			6		
			5	1.0	19
			5	P	
	588.51				
SILTY CLAY: Grayish brown (A-4)			2		
			1	<0.25	27
		-5	2	P	
			WR		
			WR	<0.25	30
			WR	P	
	583.51				
SANDY CLAY LOAM: Dark brown (A-6)					
	582.01			0.3	28
SILTY CLAY: Dark brown (A-7)		-10		S	
	580.76				
Shelby tube pushed from 8.5 to 10.5 feet - Recovery - 22 inches; Dry density - 93.0 pounds per cubic foot. Unconfined compressive strength test performed.			WR		
			1	NC	29
			1		
	578.51				
SANDY LOAM: Gray, fine (A-2)			WR		
			1	NC	
SAND: Grayish brown, fine (A-3)		-15	5		
Mud rotary drilling started at 15 feet. Trace clay deposits, rock			4		
			6	NC	
			11		
			6		
			7	NC	
		-20	10		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND: Grayish brown, fine (A-3) (continued)					
	570.01		3		
CLAY LOAM: Grayish brown, trace fine gravel (A-7)			3	1.0	21
			5	B	
			3		
			5	2.8	24
		-25	7	B	
			3		
			5	2.0	16
			7	B	
			7		
			5	1.6	17
		-30	7	B	
No recovery			5		
			12	NC	
		-35	9		
			4		
			7	1.5	23
		-40	7	B	

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)