

BORING LOG SB-8 (Page 1)

Kaskaskia Engineering Group, LLC

SOIL BORING LOG Page 1 of 2 Date 6/9/10

ROUTE FAP 103 DESCRIPTION I 15 Bridge over I 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

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

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

STRUCT. NO.	Station	DEPTH (ft)	SOIL TYPE	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter Upon Completion After (Hrs.)	U (blow)	C (blow)	S (blow)	M (blow)	O (blow)	I (blow)	S (blow)	T (blow)
082-0051/0052	710+14	464.66	TOPSOIL - 12 inches			444.2									
		483.7	FILL: Dark brown, sandy clay, trace crushed rock, asphalt, and organics (A-6)					8	25	4.5	17				
		461.7	FILL: Brown, silty clay (A-6)					7	5	1.0	17				
		459.2	SILTY CLAY: Brown and gray (A-7)					2	2	1.2	27				
		456.7	SILTY CLAY: Brown (A-6)					2	1	0.9	27				
		451.7	SILTY CLAY: Brown (A-7)					2	2	0.4	28				
		449.2	CLAY: Brown and grayish brown, trace sand (A-7)					2	2	0.7	27				
		446.7	CLAYEY SAND: Gray and brown, fine (A-2)					2	4	1.2	21				

CLAYEY SILT: Gray (A-4)
CLAY: Gray (A-7)
ORGANIC SILT: Brown (A-4)

Mud rotary drilling started at approximately 30 feet.

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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082-0051/0052	710+14	464.66	ORGANIC SILT: Brown (A-4) (continued)												
		422.7	CLAYEY SILT: Gray (A-4)					5	8	2.9	21				
		417.7	SILTY CLAY: Gray, trace sand (A-6)					8	10	3.3	19				
		412.7	SANDY CLAY: Gray (A-6)					6	7	1.4	20				
		407.7	CLAY: Grayish brown, some sand (A-7)					4	3	0.6	21				

CLAY: Grayish brown, some sand (A-7) (continued)
Becomes bluish gray
SANDY SILT: Greenish gray, trace to some organics (A-4)
SILTY CLAY: Gray, some sand (A-6)
WEATHERED LIMESTONE: Gray (A-2)
End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BORING LOG SB-9 (Page 1)

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ROUTE FAP 103 DESCRIPTION I 15 Bridge over I 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

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

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

STRUCT. NO.	Station	DEPTH (ft)	SOIL TYPE	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter Upon Completion After (Hrs.)	U (blow)	C (blow)	S (blow)	M (blow)	O (blow)	I (blow)	S (blow)	T (blow)
082-0051/0052	710+78	468.76	TOPSOIL - 12 inches			448.3									
		457.8	FILL: Brown, clayey silt, trace crushed rock (A-4)					2	3	-	25				
		455.8	FILL: Brown, silty clay (A-7)					1	2	0.8	28				
		453.3	SILTY CLAY: Brown and gray (A-6)					2	2	1.2	29				
		440.8	Becomes gray and brown					1	1	0.3	28				
		439.7	Becomes brown					2	2	1.2	28				
		435.8	SILTY CLAY: Brown (A-7)					2	3	0.7	28				
		431.8	Becomes greenish gray					3	4	0.7	24				
		430.8	SILTY CLAY: Brown (A-7)					2	3	0.3	23				

CLAY: Gray and brown, trace sand (A-7)
SANDY CLAY: Brown and grayish brown (A-6)
CLAYEY SAND: Gray, fine (A-2)
CLAY: Brown and grayish brown, trace sand (A-7)
Mud rotary drilling started at approximately 30 feet.
Becomes greenish gray

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)
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