

BORING LOG SB-1 (Page 1)

**Kaskaskia**  
Engineering Group, LLC

**SOIL BORING LOG** Page 1 of 2  
Date 6/14/10

ROUTE FAP 103 DESCRIPTION L 15 over L 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 & Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. Stream Bed Elev.	D E P T H	B L O W S	U C S	M O I S T	Groundwater Elev.: First Encounter Upon Completion After	ft ft ft	ft ft	(ft) (ft)	(in) (in)	(tsf) (tsf)	(%) (%)			
																	ft	ft	(ft)
082-0051/0052																			
SB-1										455.5									
703+65																			
53.1 ft LL																			
459.00																			
TOPSOIL - 12 inches																			
										SILTY CLAY: Brown (A-7) (continued)									
488.0																			
FILL: Dark brown to black cinders																			
466.0																			
FILL: Brown, silty clay (A-7)																			
463.5																			
FILL: Gray, clay (A-7)																			
461.0																			
CLAY: Gray (A-7)																			
441.0																			
CLAY: Brown and gray, some sand, trace gravel (A-7)																			
430.0																			
Mud rotary drilling started at approximately 30 feet.																			
426.0																			
SILTY CLAY: Grayish brown (A-7)																			
415.0																			
Becomes gray and brown, trace sand																			
412.0																			
SILTY CLAY: Grayish brown (A-6)																			
453.5																			
SILTY CLAY: Grayish brown (A-6)																			
451.0																			
SILTY CLAY: Brown (A-7)																			
441.0																			
Becomes brown, some sand, trace gravel																			

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)

BORING LOG SB-1 (Page 2)

**Kaskaskia**  
Engineering Group, LLC

**SOIL BORING LOG** Page 2 of 2  
Date 6/14/10

ROUTE FAP 103 DESCRIPTION L 15 over L 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 & Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. Stream Bed Elev.	D E P T H	B L O W S	U C S	M O I S T	Groundwater Elev.: First Encounter Upon Completion After	ft ft ft	ft ft	(ft) (ft)	(in) (in)	(tsf) (tsf)	(%) (%)
082-0051/0052																
SB-1										455.5						
703+65																
53.1 ft LL																
459.00																
CLAY: Brown and gray, some sand, trace gravel (A-7) (continued)																
450.0																
No sand and gravel																
430.0																
Becomes tan and gray																
403.4																
WEATHERED LIMESTONE																
400.5																
NO RECOVERY																
50.0																
End of Boring																
417.0																
SHALEY CLAY: Bluish gray and greenish gray (A-7)																
412.0																
CLAYEY SHALE: Tan, trace limestone rock																

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)

BORING LOG SB-2 (Page 1)

**Kaskaskia**  
Engineering Group, LLC

**SOIL BORING LOG** Page 1 of 2  
Date 6/15/10

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

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

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA & Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. Stream Bed Elev.	D E P T H	B L O W S	U C S	M O I S T	Groundwater Elev.: First Encounter Upon Completion After	ft ft ft	ft ft	(ft) (ft)	(in) (in)	(tsf) (tsf)	(%) (%)
082-0051/0052																
SB-2										451.5						
704+62																
13.5 ft LL																
464.97																
CRUSHED ROCK - 12 inches																
464.0																
FILL: Brown, clay, with some crushed rock (A-7)																
444.5																
SILTY CLAY: Gray, some sand (A-6)																
439.5																
Some sand and trace coal																
439.5																
Some cinders																
437.0																
SANDY CLAY: Grayish brown (A-4)																
437.0																
CLAY: Gray, trace sand (A-7)																
437.0																
FILL: Grayish brown, silty clay (A-6)																
437.0																
SILTY CLAY: Grayish brown and brown (A-6)																
432.0																
CLAYEY SILT: Gray and brown (A-4)																
449.5																
SILTY CLAY: Gray (A-6)																
449.5																
CLAY: Gray and brown (A-7)																
446.0																
Becomes brown and gray, some sand																

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)

FILE NAME = 082W311\_76884\_004\_BoringLog1.dgn



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

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BORING LOGS 1**  
**STRUCTURE NO. 082-W311**  
SHEET NO. 4 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	232
CONTRACT NO. 76884				
ILLINOIS FED. AID PROJECT				