Kaskaskia Engineering Group, LLC

SOIL BORING LOG

Page 2 of 2

Date 6/9/10

ROUTE FA 14 DESCRIPTION IL 15 Bridge over IL 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

SECTION 27-1-VHB LOCATION St. Clair Twp - 1.4m E of IL 159; W1/2

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

STRUCT. NO. 082-0051/0052 (existing)
Station
BORING NO. SB-6
Station 708+21
Offset 32.0 ft Lt
Ground Surface Elev. 466.46 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 453.0 ft ▼
Upon Completion - ft
After 24 Hrs. 462.2 ft ▽

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ORGANIC SILT: Brown (A-4) *(continued)*				
424.5				
CLAY: Bluish gray, some sand (A-7)				
		3		
		4	1.5	22
	-45	5	B	
Trace sand		3		
		3	0.8	24
	-50	4	B	
Becomes grayish brown		3		
		3	0.8	27
	-55	4	B	
409.5				
SILTY CLAY: Brown (A-7)				
		1		
		2	0.7	28
	-60	3	B	
SILTY CLAY: Brown (A-7) *(continued)*				
404.5				
CLAY: Brown (A-7)				
		2		
		3	1.0	25
	-65	4	B	
Becomes bluish gray, some sand		3		
		3	0.8	23
	-70	3	B	
393.6				
LIMESTONE 393.0				
End of Boring		50/0.5"	-	

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)

Kaskaskia Engineering Group, LLC

SOIL BORING LOG

Page 1 of 2

Date 6/10/10

ROUTE FA 14 DESCRIPTION IL 15 Bridge over IL 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

SECTION 27-1-VHB LOCATION St. Clair Twp - 1.4m E of IL 159; W1/2

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

STRUCT. NO. 082-0051/0052 (existing)
Station
BORING NO. SB-7
Station 708+55
Offset 50.8 ft Rt
Ground Surface Elev. 465.65 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 449.7 ft ▼
Upon Completion - ft
After 24 Hrs. 459.4 ft ▽

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Brown, sandy clay, trace to some cinders (A-6)				
		1		
		2	-	18
		2		
462.7				
FILL: Gray, clay, some sand and cinders (A-7)		1		
		2	0.4	27
	-5	3	B	
460.2				
FILL: Gray and brown, silty clay (A-7) ▽		3		
		4	2.4	23
		4	B	
457.7				
SILTY CLAY: Grayish brown (A-7)		1		
		2	0.2	28
	-10	2	B	
455.2				
SILTY CLAY: Grayish brown (A-6)		3		
		3	1.2	24
		4	B	
452.7				
CLAYEY SILT: Grayish brown (A-4)		1		
		2	1.4	25
	-15	3	B	
▼		2		
		1	0.0	27
		3	B	
447.7				
SILTY CLAY: Brown (A-6)		3		
		3	1.3	23
	-20	4	B	
445.2				
CLAY: Gray and brown, some sand (A-7)		2		
		2	1.2	23
		4	B	
442.7				
SILTY CLAY: Gray, some sand (A-7)		2		
		3	0.4	22
	-25	2	B	
440.2				
SAND: Grayish brown, fine to medium (A-3)		WH		
		1	-	21
		3		
437.7				
SILT: Gray (A-4)		8		
		16	3.0	19
	-30	15	B	
Mud rotary drilling started at 30 feet.				
Becomes brown		9		
		10	1.3	22
	-35	11	B	
428.7				
CLAY: Bluish gray (A-7)				
		4		
		7	2.1	18
	-40	9	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)

Kaskaskia Engineering Group, LLC

SOIL BORING LOG

Page 2 of 2

Date 6/10/10

ROUTE FA 14 DESCRIPTION IL 15 Bridge over IL 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

SECTION 27-1-VHB LOCATION St. Clair Twp - 1.4m E of IL 159; W1/2

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

STRUCT. NO. 082-0051/0052 (existing)
Station
BORING NO. SB-7
Station 708+55
Offset 50.8 ft Rt
Ground Surface Elev. 465.65 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 449.7 ft ▼
Upon Completion - ft
After 24 Hrs. 459.4 ft ▽

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Bluish gray (A-7) *(continued)*				
423.7				
SANDY CLAY: Bluish gray (A-6)				
		3		
		4	1.2	22
	-45	5	B	
418.7				
CLAY: Bluish gray, trace to some sand (A-7)				
		3		
		3	0.6	23
	-50	4	B	
Becomes brown, trace sand and gravel		3		
		5	1.1	20
	-55	5	B	
408.7				
SILTY CLAY: Brown (A-6)				
		2		
		2	0.5	28
	-60	3	B	
SILTY CLAY: Brown (A-6) *(continued)*				
403.7				
SILTY CLAY: Brown (A-7)				
		2		
		4	0.9	23
	-65	5	B	
398.7				
CLAY: Bluish gray, some sand (A-7)				
		4		
		8	1.8	21
	-70	10	B	
392.7				
LIMESTONE 392.0				
End of Boring		50/2"	-	

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 = 0820119-0120-76884-045-Boring-Logs.dgn

STV

USER NAME = brazzaro	DESIGNED - MJK	REVISED - -
	CHECKED - JAN	REVISED - -
PLOT SCALE = 2:0.0000 ':' / IN.	DRAWN - MJK	REVISED - -
PLOT DATE = 10/19/2011	CHECKED - JAN	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)

SHEET NO. S-45 OF S-51 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	222
		CONTRACT NO. 76884		
		ILLINOIS FED. AID PROJECT		