Kaskaskia Engineering Group, LLC

SOIL BORING LOG

ROUTE FA 14 DESCRIPTION IL 15 Bridge over IL 13 (Old Freeburg Rd) & ICG Railroad Date 6/9/10 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-8
Station 710+14
Offset 51.3 ft Rt
Ground Surface Elev. 464.66 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 453.7 ft ▼
Upon Completion - ft
After 24 Hrs. 460.0 ft ▼

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
463.7				TOPSOIL - 12 inches
	8			FILL: Dark brown, sandy clay, trace crushed rock, asphalt, and organics (A-6)
	25	4.5	17	
	14	P		
461.7				FILL: Brown, silty clay (A-6)
	7			
-5 ▼	5	1.0	17	
	3	P		
459.2				SILTY CLAY: Brown and gray (A-7)
	2			
	2	1.2	27	
	2	B		
456.7				SILTY CLAY: Brown (A-6)
	2			
-10	1	0.9	27	
	2	B		
▼	1			
	2	0.4	28	
	2	B		
451.7				SILTY CLAY: Brown (A-7)
	2			
	2	0.7	27	
-15	3	B		
449.2				CLAY: Brown and grayish brown, trace sand (A-7)
	2			
	2	1.3	22	
	4	B		
446.7				CLAYEY SAND: Gray and brown, fine (A-2)
	2			
	4	1.2	21	
-20	4	B		
444.2				CLAYEY SILT: Gray (A-4)
	2			
	3	0.6	19	
	3	B		
-25	3	-	24	
	4			
	10			
	10	5.4	21	
	13	S		
436.7				CLAY: Gray (A-7)
	5			
-30	7	1.4	23	
	6	B		
				Mud rotary drilling started at approximately 30 feet.
	2			
	4	1.3	25	
-35	5	B		
427.9				ORGANIC SILT: Brown (A-4)
	2			
	2	1.4	50	
-40	2	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

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ROUTE FA 14 DESCRIPTION IL 15 Bridge over IL 13 (Old Freeburg Rd) & ICG Railroad Date 6/9/10 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-8
Station 710+14
Offset 51.3 ft Rt
Ground Surface Elev. 464.66 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 453.7 ft ▼
Upon Completion - ft
After 24 Hrs. 460.0 ft ▼

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				ORGANIC SILT: Brown (A-4) *(continued)*
422.7				CLAYEY SILT: Gray (A-4)
	5			
-45	8	2.9	21	
	10	B		
417.7				SILTY CLAY: Gray, trace sand (A-6)
	8			
-50	10	3.3	19	
	11	B		
412.7				SANDY CLAY: Gray (A-6)
	6			
-55	7	1.4	20	
	9	B		
407.7				CLAY: Grayish brown, some sand (A-6)
	3			
-60	4	0.6	21	
	6	B		
				CLAY: Grayish brown, some sand (A-7) *(continued)*
	2			
-65	3	0.6	25	
	4	B		
				Becomes bluish gray
	5			
-70	6	1.8	22	
	10	B		
392.7				SANDY SILT: Greenish gray, trace to some organics (A-4)
	11			
-75	12	-	30	
	15			
387.7				SILTY CLAY: Gray, some sand (A-6)
386.2				WEATHERED LIMESTONE: Gray
386.1	50/1"	-	19	End of Boring
-80				

The Uncorfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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SOIL BORING LOG

ROUTE FA 14 DESCRIPTION IL 15 Bridge over IL 13 (Old Freeburg Rd) & ICG Railroad Date 6/10/10 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 550 w/HSA & Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 082-0051/0052 (existing)
Station
BORING NO. SB-9
Station 710+78
Offset 13.0 ft Lt
Ground Surface Elev. 468.76 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 452.8 ft ▼
Upon Completion - ft
After - Hrs. - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
467.8				TOPSOIL - 12 inches
	2			FILL: Brown, clayey silt, trace crushed rock (A-4)
	3	-	25	
	2			
465.8				FILL: Brown, silty clay (A-7)
	1			
-5	2	0.8	26	
	4	B		
463.3				SILTY CLAY: Brown and gray (A-6)
	2			
	2	1.2	29	
	3	B		
	1			Becomes gray and brown
-10	1	0.3	28	
	2	B		
	2			Becomes brown
	2	1.2	26	
	3	B		
455.8				SILTY CLAY: Brown (A-7)
	2			
-15	3	0.7	25	
	3	B		
▼	3			
	4	0.7	24	
	5	B		
450.8				SILTY CLAY: Brown and grayish brown (A-6)
	2			
	3	0.3	23	
-20	4	B		
448.3				CLAY: Gray and brown, trace sand (A-7)
	2			
	3	1.0	21	
	6	B		
445.8				SANDY CLAY: Brown and grayish brown (A-6)
	5			
-25	8	0.8	21	
	7	B		
443.3				CLAYEY SAND: Gray, fine (A-2)
	3			
	7	-	20	
	9			
440.8				CLAY: Brown and grayish brown, trace sand (A-7)
	2			
-30	3	2.2	23	
	6	B		
				Mud rotary drilling started at approximately 30 feet.
	3			Becomes greenish gray
	6	2.8	22	
-35	7	B		
431.8				SILTY CLAY: Brown (A-7)
	3			
	5	1.8	22	
-40	11	B		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BBS, form 137 (Rev. 8-99)

FILE NAME = 082017-018-76884-057-Boring Logs.dgn

STV

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 082-0117 (E.B.) & 082-0118 (W.B.)
SHEET NO. S-57 OF S-62 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	172
		CONTRACT NO. 76884		
	ILLINOIS FED. AID PROJECT			