Kaskaskia Engineering Group, LLC

SOIL BORING LOG

Page 1 of 1

Date 9/13/10

ROUTE FAI 57/FAP 331 DESCRIPTION FAI 57 over IL Rte 13 LOGGED BY KEG

SECTION (X1-6-2)HBK-2 LOCATION Marion; N 1/2 Section 14, TWP 9S, RNG 2E

COUNTY Williamson DRILLING METHOD CME 55LC/HSA HAMMER TYPE Automatic

STRUCT. NO. 100-0088 (NB) & 100-0089 (SB)
Station

BORING NO. B-3
Station 1489+35.12
Offset 81.0 ft Lt
Ground Surface Elev. 450.12 ft

Surface Water Elev. ft
Stream Bed Elev. ft

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Grass cover and topsoil	449.1				
FILL: Dark brown, silty clay, trace roots (A-6)			8		
			8 5	4.5 P	16
Becomes brown	446.1		2		
FILL: Gray, clay (A-7)		-5	2 5	4.5 P	12
SILTY CLAY: Gray and brown (A-6)	444.6		3		
			3 4	0.8 B	21
CLAY: Gray and brown (A-7)	442.1		2		
		-10	2 4	0.7 B	21
Some sand			2		
			2 4	1.4 B	19
			2		
		-15	2 3	0.6 B	20
Becomes brown and gray			5		
			6 7	1.6 B	17
Becomes gray and brown			3		
		-20	3 5	0.9 B	21
CLAY: Gray and brown (A-7) *(continued)*					
Becomes brown, trace organics			2		
			3 4	0.7 B	19
Becomes gray, trace coal			3		
		-25	6 8	2.2 B	17
CLAYEY SHALE: Gray and brown	424.6		7		
	423.1		17 50/2"	-	16
SHALE: Gray	421.3		50/3" 50/1"	-	4
Borehole continued with rock coring.		-30			
		-35			
		-40			

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

ROCK CORE LOG

Page 1 of 1

Date 9/13/10

ROUTE FAI 57/FAP 331 DESCRIPTION FAI 57 over IL Rte 13 LOGGED BY KEG

SECTION (X1-6-2)HBK-2 LOCATION Marion; N 1/2 Section 14, TWP 9S, RNG 2E

COUNTY Williamson CORING METHOD Rotary, surface set diamond bit

STRUCT. NO. 100-0088 (NB) & 100-0089 (SB)
Station

CORING BARREL TYPE & SIZE NX conv dbl bbl split inner

BORING NO. B-3
Station 1489+35.12
Offset 81.0 ft Lt
Ground Surface Elev. 450.12 ft

Core Diameter 2 in
Top of Rock Elev. 424.62 ft
Begin Core Elev. 421.32 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
CLAYEY SHALE: Gray	421.32		1	87	55	7.8	
SHALE: Gray	421.02	-30					
			2	97	92	12	
			3	86	73	5.3	
CLAYEY SHALE: Gray	415.12	-35					
SHALE: Gray	414.62						
	411.32						
End of Boring		-40					
		-45					

Color pictures of the cores Yes
Cores will be stored for examination until
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

CMT CRAWFORD MURPHY & TILLY, INC. CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

FILE NAME = ...\I-57\063_BORING LOGS VI.dgn	USER NAME = Rob Heady	DESIGNED - BPD	REVISED -
		CHECKED - WLB	REVISED -
	PLOT SCALE =	DRAWN - GLD	REVISED -
	PLOT DATE = 10/7/2011	CHECKED - BPD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS VI
STRUCTURE NO. 100-0088 (N.B.) & 100-0089 (S.B.)
SHEET NO. 72 OF 75 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(X1-6-2)HBK-2	WILLIAMSON	968	657
* F.A.I. 57 AND F.A.P. 331		CONTRACT NO. 78182		
		ILLINOIS FED. AID PROJECT		