



Illinois Department of Transportation  
Division of Highways  
SCI Engineering

SOIL BORING LOG

Date 02/09/12

ROUTE FAP Route 42 (IL 127) DESCRIPTION IL 127 Over Kaskaskia River LOGGED BY SCI (CLM)

SECTION 1-1BR-2 LOCATION Carlyle, IL, SEC. 31, TWP. 2N, RNG. 2W

COUNTY Clinton DRILLING METHOD MUD ROTARY HAMMER TYPE Manual

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	D	B	U	M
		E	L	C	O		E	L	C	O
		P	O	S	I	Stream Bed Elev.	P	O	S	I
BORING NO.	Station	T	W	Qu	T	Groundwater Elev.:	H	S	Qu	T
		H	S			First Encounter				
	Offset					Upon Completion	(ft)	(/6")	(tsf)	(%)
	Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	After				
ASPHALT - 5 inches	435.6					Soft material, weight of casing. Casing pushed in to seal off for mud rotary drilling (continued)				
REINFORCED CONCRETE - 5 inches	435.2									
Open air below bridge deck						Began mud rotary drilling at 22.75 feet				
						CLAY: Brown, some sand, trace gravel [A-7]	4 8 -25	0.6 B	26	
						SILT: Brown, trace clay nodules [A-4]	2 2 3	0.2 B	26	
						SILTY LOAM: Brown [A-4]	1 2 -30	NC	24	
						Sample too disturbed for a UCS test				
						Atterberg limits test performed	4 4 3	0.9 B	24	
						SAND: Gray, trace organics, trace gravel [A-2]	2 2 -35	NC	25	
						GSA performed				
						SANDY LOAM: Fine, trace gravel [A-3]	3 5 6	NC	21	
						GSA performed				
						SAND: Brown and gray, fine to coarse, with gravel [A-2]	5 7	NC		
						GSA performed				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



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BORING NO.	Station	T	W	Qu	T	Groundwater Elev.:	H	S	Qu	T
		H	S			First Encounter				
	Offset					Upon Completion	(ft)	(/6")	(tsf)	(%)
	Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	After				
GRAVEL: Coarse [A-1]										
SAND: Gray, some gravel [A-2]	394.5	10 18 27		NC						
		18 23 -45		NC						
SHALEY CLAY to CLAYEY SHALE based on drilling fluid observations	390.5									
SHALE: Gray	387.5	50/5"	2.6 S/15	11						
no sample recovery		50/2"	NA							
Boring terminated at 53.5 ft.	382.5	50/0.5"	NA							
Boring grouted to 53.5 ft.	-55									

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USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - JTH	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 2/1/2013	CHECKED - RLM	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG B-5  
STRUCTURE NO. 014-0033

SHEET NO. 56 OF 61 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	1-1BR-2	CLINTON	159	125
CONTRACT NO. 76479				
ILLINOIS FED. AID PROJECT				