



Illinois Department of Transportation
Division of Highways
SCI Engineering

SOIL BORING LOG

Page 1 of 2

Date 02/07/12

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 HSA w/mud rotary HAMMER TYPE Manual

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	D	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	H	B	U	M
014-0014	140+00	B-1	128+72	28 ft LT	435.5 ft	(ft)	(/6")	(tsf)	(%)	-- ft	-- ft	412.0 ft ▼	412.0 ft ▼	-- ft	-- ft	(ft)	(/6")	(tsf)	(%)
CLAY: Brown and gray, trace sand [A-6]						4										2	5	2.4	25
SANDY CLAY: Brown [A-7-6]						2	2	0.7	17							2	3	0.6	27
Atterberg limits test performed						2	2	0.7	17							2	3	0.6	27
SILT: Gray, trace gravel [A-4]						4	4	1.3	20							2	2	0.2	29
Atterberg limits test performed						2	5	1.7	22							2	4	1.2	28
CLAY: Gray, trace organics [A-7-6]						3	3	1.0	27							3	5		NC
Atterberg limits test performed						2	3	1.1	30							3	5		NC
SILTY CLAY: Gray and brown, trace sand [A-6]						3	4	1.4	25										
0.5" sand seam						2	4	1.2	26							7	8		NC

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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014-0014	140+00	B-1	128+72	28 ft LT	435.5 ft	(ft)	(/6")	(tsf)	(%)	-- ft	-- ft	412.0 ft ▼	412.0 ft ▼	-- ft	-- ft	(ft)	(/6")	(tsf)	(%)
SAND: Gray, fine [A-2] (continued)																			
began mud rotary drilling at 45 feet																			
hard drilling																			
Sandy GRAVEL [A-1]						7	38		NC										
SHALEY CLAY: Gray						7	38		NC										
SHALE: Gray						3	5		NC										
Mud Rotary Bit Refusal and Split Spoon Sampler Refusal at 54.0 ft.						50/3"	50/1"	0.9	15										
Boring grouted to 54 ft.						50/1"	50/1"												

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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-1
STRUCTURE NO. 014-0033

SHEET NO. 51 OF 61 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	1-1BR-2	CLINTON	159	120
CONTRACT NO. 76479				

ILLINOIS FED. AID PROJECT