



Illinois Department of Transportation
Division of Highways
SCI Engineering

SOIL BORING LOG

Page 1 of 3

Date 08/19/09

ROUTE FAP 698 (IL 89) DESCRIPTION Bridge Replacement (proposed SN 062-0086) over AT&SF Railroad and Crow Creek LOGGED BY KEG
SECTION (125VBR)BR LOCATION Approx. 4.8 miles south of IL Rt 17; NW 1/4, SEC. 20, TWP. 29N, RNG. 1W
COUNTY Marshall DRILLING METHOD CME 550/HSA HAMMER TYPE Automatic

STRUCT. NO. 062-0031 (existing) Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. _____ ft				D E P T H	B L O W S	U C S Qu	M O I S T
					ft	(ft)	(/6")	(tsf)				
BORING NO. B-4 Station 297+10 Offset 20 ft RI Ground Surface Elev. 609.9					Surface Water Elev. _____ ft							
					Stream Bed Elev. _____ ft							
					Groundwater Elev.: _____ ft							
					First Encounter 603.9 ft							
					Upon Completion _____ ft							
					After _____ Hrs. _____ ft							
GRASS & TOPSOIL - 12 inches												
FILL: Brown, sandy clay loam (A-4) and Brown, sandy loam (A-2)	608.9	3										
		4	0.3	17								
		2	B									
FILL: Grayish brown and Dark brown, sandy clay loam (A-4) and Brown, sandy loam (A-2)	606.9	2										
		2	0.8	16								
		4	P									
GRAVEL: Fine (A-1) Poor recovery	604.4	4										
		4										
		3										
SAND: Gray, fine to medium, trace to some clay, trace fine gravel (A-2)	601.9	4										
		2										
		3										
SAND: Gray, fine to coarse, some fine gravel (A-1) Wash rotary drilling started at 13.5 feet.	599.9	3										
		4										
		6										
Poor recovery		4										
		7										
		8										
SAND: Gray, fine to coarse and GRAVEL, fine (A-1)	591.9	4										
		5										
		7										

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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					Groundwater Elev.: _____ ft							
					First Encounter 603.9 ft							
					Upon Completion _____ ft							
					After _____ Hrs. _____ ft							
SAND: Gray, fine to coarse and GRAVEL, fine (A-1) (continued)												
SILT CLAY LOAM: Grayish brown, trace fine gravel, organics (A-6)	567.9											
Mud rotary drilling started at 43.5 feet.		12										
		31	5.3	12								
		37	B									
CLAY LOAM: Grayish brown, trace fine gravel, organics (A-7)	562.9											
		16										
		22	8.7	10								
		40	B									
Trace coal												
		11										
		19	7.2	15								
		34	B									
SILT: Brown (A-4)	532.9											
		17										
		27	6.8	11								
		35	B									

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					Stream Bed Elev. _____ ft							
					Groundwater Elev.: _____ ft							
					First Encounter 603.9 ft							
					Upon Completion _____ ft							
					After _____ Hrs. _____ ft							
SILT: Brown (A-4) (continued)												
		26										
		70	1.5	28								
		50/4"	P									
Becomes grayish brown												
		15										
		18	5.3	18								
		25	B									
Becomes gray and brown												
		16										
		28	1.2	21								
		33	B									
		19										
		23	4.3	20								
		29	S/15									

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Hutchison Engineering, Inc.
Jacksonville, Peoria, &
Shorewood, Illinois

USER NAME = Jdeen	DESIGNED - JOH	REVISED -
PLOT SCALE = NONE	CHECKED - BAN	REVISED -
PLOT DATE = 7/25/2013	DRAWN - TAC	REVISED -
	CHECKED - JOH/BAN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
STRUCTURE NO. 062-0086

SHEET NO. 58 OF 62 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	125(VBR)BR	MARSHALL	148	83
			CONTRACT NO. 68580	
ILLINOIS FED. AID PROJECT				