ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation
Boring Log
Sheet 1 of 2

FAP 782 (IL Rte 1) Over Rock Creek

Route: FAP 782 (IL Rte Structure Number: 035-0002 Date: 8/21/2013
Section 115A Bored By: R Moberly
County: Hardin Location: 3.3 mi South of Gallatin County Checked By: R Graeff

Boring No 3-S
Station 998+05
Offset 9' Lt CL
Ground Surface 357.8 Ft

Surf Wat Elev:
Ground Water Elevation
when Drilling 335.8
At Completion
At: Hrs:

Description	DEPTH	BLOW	Qu tsf	W%
8" Asphalt over 9" Concrete				
356.3				
Medium, very moist, grey, Silty Clay Loam A-6		1		
		1	0.8B	28
		1		
353.3				
Stiff, moist, grey, Silty Clay A-6	5.0	1		
		1	1.6B	22
		2		
		1		
		2	1.5B	24
		4		
348.3				
Medium, moist to very moist, grey, Silty Clay Loam A-6	10.0	2		
		3	0.9B	22
		4		
345.8				
Stiff, moist, grey, Silty Clay Loam A-4		1		
		4	1.4S	25
		2		
343.3				
Very soft to soft, very moist, grey, Silty Clay Loam A-4	15.0	1		
		1	0.2B	30
		1		
		WH		
		WH	0.3B	32
		WH		
338.3				
Soft to Medium, very moist, grey, Silty Clay Loam A-4	20.0	1		
		1	0.5B	30
		1		
335.8				
Soft, very moist, grey, Silty Clay Loam A-4 with sand layers		WH		
		WH	0.4B	39
		WH		
332.8	25.0	WH		

Description	DEPTH	BLOW	Qu tsf	W%
Stiff to Very stiff, moist, grey, Clay A7-6		1	2.1B	27
		2		
		1		
		2	1.7B	25
		4		
	30.0	1		
		3	2.7B	26
		5		
		1		
		3	1.8B	21
		4		
323.3				
Medium, very moist, grey, Silty Clay with sand layers	35.0	1		
		2	0.7B	21
		2		
320.8				
Very stiff, moist, grey, Clay A7-6		1		
		3	2.3B	24
		5		
318.3				
Stiff to very stiff, moist, grey, Silty Clay to Clay A7-6	40.0	1		
		3	2.0B	21
		5		
313.3				
Very loose, wet, grey, mixture of Sand and clay balls	45.0	*		
		*	0.0	26
* Sample tube feel through the sample zone and continued for approximately 4' as if in a void.		*		
308.8				
Very dense, dry, grey and brown, Sandstone	50.0	100/0.5" Refusal		

N-Std Pentr Test: 2" OD Sampler,140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Sheet 2 of 2

Route: FAP 782 (IL Rte 1) Date: 8/21/2013
Section: 115A
County: Hardin

Boring No: 3-S
Station: 998+05
Offset: 9' Lt CL
Ground Surface: 357.8 Ft

Description	DEPTH	BLOW	Qu tsf	W%
Very dense, dry, grey and brown, Sandstone				
Cored 49.0 to 54.0 feet				
100% Recovery; 53% RQD				
303.8				
	55.0			
Bottom of hole = 54.0 feet				
Free water observed at 22.0 ft				
Elevation referenced to BM at SW corner of bridge; Elev.= 356.9 ft				
Borehole advanced with hollow stem auger (8" O.D, 3.25" I.D.)				
	60.0			
To convert "N" values to "N60" multiply by 1.25				
	65.0			
	70.0			
	75.0			

Description	DEPTH	BLOW	Qu tsf	W%
	80.0			
	85.0			
	90.0			
	95.0			
	100.0			

N-Std Pentr Test: 2" OD Sampler,140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

PRINT DRIVER = I_PDF_B_8.pltl
PEN TABLE = DOT-16BW.tbl
PLOT STYLE = ESCA.stb
FILE NAME = 0350017-78263-28-Sol.dgn

ESCA CONSULTANTS, INC.
GEOTECHNICAL & PROFESSIONAL ENGINEERING

USER NAME = koh	DESIGNED - SHL	07/13	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS STRUCTURE NO. 035-0017
ESCA PROJECT NO. 1035.03	CHECKED - RDP	09/13	REVISED -		
PLOT SCALE = 0:2 ':' / IN.	DRAWN - KAH	07/13	REVISED -		
PLOT DATE = 1/22/2014 5:24:46 PM	CHECKED - SHL	08/13	REVISED -		SHEET NO. 28 OF 29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	115B-1	HARDIN	70	51
		CONTRACT NO. 78263		
	ILLINOIS	FED. AID PROJECT		