Illinois Department of Transportation
Division of Highways
GSG CONSULTANTS INC.

SOIL BORING LOG

Date 10/5/09

ROUTE FAP 310 (US 67) DESCRIPTION US 67 over Farmers Fork Creek LOGGED BY KS

SECTION (38B-2) BR LOCATION SEC. 1, TWP. 6N, RNG. 3W, 4th PM.
Latitude 40.53596 N, Longitude 90.67418 W

COUNTY McDonough DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 055-0027 (existing) 055-0081 (proposed)
Station 153+63.16

BORING NO. B-1
Station 153+06
Offset 17.00ft RT (SB CL)
Ground Surface Elev. 680.70 ft

Surface Water Elev. 669.50 ft
Stream Bed Elev. 668.10 ft

Groundwater Elev.:
First Encounter 649.7 ft
Upon Completion - ft
After 24 Hrs. 672.7 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Asphalt Pavement 9 inches thick Base Course 6-inches thick
679.45				
	3			Brown to Green CLAY (fill), trace gravel , organics
	3 5	1.4 B	24	
	2			
-5	4 5	1.8 B	28	
	2			
	3 4	2.2 B	19	
671.70				
	2			Medium Stiff to Soft Black, Moist CLAY LOAM, trace gravel
-10	2 3	0.7 B	31	
	1			
	1 1	0.4 B	38	
666.70				
	1			Soft to Medium Stiff Green, Moist SILTY CLAY LOAM, trace gravel
-15	1 2	0.4 B	33	
	1			
	2 2	0.8 B	24	
662.70				
	1			Very Stiff to Stiff Green to Gray, Moist CLAY LOAM, trace gravel 2-inch SAND lens at 19'
-20	3 5	2.4 B	15	
660.70				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Very Stiff to Stiff Green to Gray, Moist SILTY CLAY, trace gravel
	3			
	5 6	2.6 B	15	
	WH			
-25	5 7	2.7 B	15	
	2			
	5 7	2.0 B	16	
	3			
-30	4 4	1.6 B	16	
649.70				
	WH			Very Loose Gray, Coarse, Wet SAND, trace gravel
	WH		20	
-35	WH			
643.70				
	5			Medium Dense Gray, Wet GRAVEL, and sand Drill Method Switched to Mud Rotary at 38.5'
-40	8 9		27	

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)

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DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Medium Dense Gray, Wet GRAVEL, and sand *(continued)*
	3			
-45	5 6		13	
631.70				
	16			Medium Dense Gray, Wet SILTY LOAM, trace gravel
-50	14 14		20	
	10			
-55	10 11		20	
	12			
-60	18 18		31	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Dense Gray, Moist SANDY LOAM *(continued)*
617.70				
	6			Medium Dense Gray, Moist SILTY LOAM 6-inch CLAY lens at 64'
-65	10 16		26	
	6			
-70	8 13	1.1 B	38	Medium Stiff to Stiff Gray, Moist SILTY CLAY LOAM, trace gravel
	6			
-75	12 11	0.8 B	24	
	8			
-80	6 12	2.0 B	25	

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DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Medium Stiff to Stiff Gray, Moist SILTY CLAY LOAM, trace gravel *(continued)*
	7			
	9 10	1.4 B	18	
-85				
593.70				
	5			Medium Dense Gray, Fine, Moist SAND, trace gravel
	8 11		32	
-90				
	12			
	13 14		20	
-95				
583.70				
	4			Very Stiff Gray, Moist SILTY LOAM, trace gravel
	6 7	2.2 B	26	
580.70	-100			

End of Boring

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)

BORING B-1

FILE NAME = P:\07files\070286\Phase2\Bridge Plans\34_BORINGLOGS_0081.dgn	USER NAME = seb	DESIGNED - KTH	REVISED -
	PLOT SCALE = 16.0000 '/' / IN.	CHECKED - ADL	REVISED -
	PLOT DATE = 12/8/2011	DRAWN - BGJ	REVISED -
		CHECKED - RJP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
S.N. 055-0081 (SB)
SHEET NO. 34 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(38B-2)BR	MCDONOUGH	130	91
		CONTRACT NO. 68691		
		ILLINOIS FED. AID PROJECT		

Klingner & Associates P.C.