STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Date 1/23,26/2009

ROUTE FAP 693 DESCRIPTION Bridge Replacement LOGGED BY SCI

SECTION (119 BR-2) BR LOCATION Mackinaw Township, N 1/2, SEC. 9, TWP. 24N, RNG. 2W,
Latitude , Longitude

COUNTY Tazewell DRILLING METHOD CME 1050 - Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 090-0064 (existing)
Station

BORING NO. B-2
Station 773+43
Offset 50.00ft Rt
Ground Surface Elev. 584.39 ft

Surface Water Elev. 581.19 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter - ft
Upon Completion - ft
After 24 Hrs. 581.2 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	2			SANDY LOAM: Brown
583.39	1	-	36	(A-2)
	2			COBBLES & GRAVEL
				(A-1)
				Tri-cone bit was observed grinding on gravel or cobbles.
	4			Mud rotary drilling began at the ground surface and casing installed
580.89	4	-	62	to 18.5 feet.
580.39	4			Poor recovery.
				SANDY GRAVEL
579.39 -5	8			(A-1)
	5	-	35	COBBLES & GRAVEL
	4			(A-1)
577.69				GRAVEL: Some clay
	2			(A-1)
				Poor recovery.
	7	-	18	SAND: Brown, fine to coarse,
	7			trace fine gravel
	10			(A-1)
-10	14			Sandy gravel observed from approximately 9.5 to 10 feet.
	10	-	16	Cobbles not observed during drilling
	8			Trace to some fine gravel
	2			
	3	-	15	
	4			
-15	9			
	17	-	10	
	17			
	16			
				Casing difficult to install from approximately 7.5 to 10 feet and 15.5 to 17.5 feet.
566.39	29			
	38	6.1	10	CLAY LOAM: Gray, trace fine
	57	S		gravel
-20				(A-7)

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	27			CLAY LOAM: Gray, trace fine
	43	4.5	9	gravel
	57/4"	P		(A-7) *(continued)*
				Deposits of silty sand observed
	52			
	57	4.5	8	
	43/3"	P		
-25	50			Gravel not observed
	78	4.5	10	
	22/1.5"	P		
	34			
	67	4.5	8	
	33/2"	P		
-30	26			
	37	4.5	7	
	55	P		
-35	22			
	32	-	10	
	41			
-40				

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)

Date 1/23,26/2009

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DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	20			CLAY LOAM: Gray, trace fine
	32	4.5	9	gravel
	56	P		(A-7) *(continued)*
-45	14			Grades to trace to some fine gravel
	26	4.5	10	
	34	P		
-50	17			Gray fine to medium sand deposit encountered about 50 feet underlain by a Gray silty sand deposit to about 51 feet.
	23	4.5	9	
	20	P		
-55	15			
	24	7.6	9	
	45	B		
-60				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	24			CLAY LOAM: Gray, trace fine
	49	4.5	8	gravel
	51/4"	P		(A-7) *(continued)*
-65	30			
	48	4.6	8	
	52/4"	S		
-70	24			
	43	4.5	8	
	57	P		
509.39 -75	60			SANDY LOAM: Gray
	100/6"	-	10	(A-2)
506.39				SAND: Gray, fine
				(A-3)
-80				

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Date 1/23,28/2009

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DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	27			SAND: Gray, fine
	39	-	20	(A-3) *(continued)*
	42			
482.69				End of Boring
-85	27			Trace fine gravel
	36	-	17	
	51			
-90	21			
	28	-	18	
	36			
-95	29			
	34	-	12	
	42			
-100				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	24			SAND: Gray, fine
	32	-	13	(A-3) *(continued)*
	30			
-105				
-110				
-115				
-120				

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DESIGNED	RRD
CHECKED	AJS
DRAWN	KAS
CHECKED	AJS

BORING LOGS (2 OF 2)
S.N. 090-0177
STRAND ASSOCIATES, INC.

SHEET NO. 21	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22 SHEETS	693	(119BR-2) BR	TAZEWELL	65	38
	BORING LOGS (2 OF 2)		CONTRACT NO. 68660		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		