Illinois Department of Transportation
Division of Highways
WHITNEY & ASSOCIATES

SOIL BORING LOG

Date 2/3/12

ROUTE _____ DESCRIPTION Soangetaha Bridge Over BNSF Railroad LOGGED BY T. Fehl

SECTION 07-00651-03-BR LOCATION Galesburg, SEC. 12, TWP. 11N, RNG. 1E,
Latitude , Longitude

COUNTY Knox DRILLING METHOD Hollow-Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 048-3198
Station 10+00

BORING NO. B-01
Station 10+73
Offset 51.0 ft Left
Ground Surface Elev. 774.80 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 748.8 ft ▼
Upon Completion 751.4 ft
After - Hrs. - ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dark Brown SILTY CLAY LOAM Organic Topsoil (20.0")	773.13				
Medium, Dark Brown SILTY CLAY LOAM With Trace of Organic Matter DD = 87 PCF	770.80		2 3 5	0.6 B	29
Medium, Brown SILT With Trace Of Organic Matter DD = 96 PCF	768.30	-5	4 4 5	0.9 B	20
Stiff, Brown SILT DD = 99 PCF	765.80		3 5 7	1.1 B	19
Medium, Light Brown And Gray Mottled Dark Brown SILTY CLAY DD = 93 PCF		-10	2 2 3	0.9 B	26
DD = 92 PCF	760.30		2 3 3	0.7 B	27
Stiff, Gray SILT DD = 97 PCF	757.60	-15	2 2 3	1.2 B	23
Stiff, Brown And Gray-Brown SILTY CLAY DD = 95 PCF		-20	2 3 4	1.3 B	24
Stiff, Brown And Gray-Brown SILTY CLAY *(continued)* DD = 96 PCF	752.80		3 5 6	1.4 B	24
Loose, Light Brown, Fine- To Medium-Grained SAND		-25	3 4 4	-	19
Medium-Density, Brown, Fine- To Medium-Grained SAND And Fine-Grained GRAVEL With Considerable Silty Clay	747.80	-30	3 4 5	-	-
Medium-Density, Brown, Fine-Grained GRAVEL And Medium- To Coarse-Grained SAND With Considerable Silty Clay	741.80	-35	5 5 6	-	-
Dense, Gray, Fine- To Coarse-Grained SAND And Fine-Grained GRAVEL With Some Silty Clay	736.80	-40	6 7 8	-	-

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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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dense, Gray, Fine- To Coarse-Grained SAND And Fine-Grained GRAVEL With Some Silty Clay *(continued)*	732.30		12 15 24	-	-
Very Stiff, Gray CLAY SHALE	727.80	-45	15 27 34	4.0 P	-
Hard, Gray CLAY SHALE		-50	97/6"	4.5 P	-
		-55	94/6"	4.5 P	-
Hard, Gray CLAY SHALE *(continued)*	713.80		98/4"	4.5 P	-
End of Boring					

The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by (B-Bulge, S-Shear, P-Penetrometer)
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