Illinois Department of Transportation
Division of Highways
Whitney & Associates

SOIL BORING LOG

Date 11/16/12

ROUTE _____ DESCRIPTION Spring Lake Causeway Bridge Replacement LOGGED BY T. Fehl

SECTION IDNR LOCATION Tazewell County, SEC. 3, TWP. T23N, RNG. R7W,
Latitude , Longitude

COUNTY Tazewell DRILLING METHOD Hollow-Stem Augers HAMMER TYPE Automatic

STRUCT. NO. 090-3041
Station 4+70

BORING NO. B-01
Station 4+54
Offset 2.9 ft Right
Ground Surface Elev. 441.61 ft

Surface Water Elev. 433.40 ft
Stream Bed Elev. 429.60 ft

Groundwater Elev.:
First Encounter 433.6 ft ▼
Upon Completion 433.6 ft ▽
After - Hrs. - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
BITUMINOUS CONCRETE (6.5") 441.07			
PORTLAND CEMENT CONCRETE (11.5") 440.65			
433.61 ▼			
LAKE LEVEL			
429.61			
Very Soft, Dark Gray SILTY CLAY with Some Organic Matter	1		
	1	-	43
	1		
	1		
	2	-	36
424.61			
Soft To Very Soft, Black ORGANIC SILTY CLAY DD = 71 PCF	1		
	1	0.3	61
	1	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	1		
Soft To Very Soft, Black ORGANIC SILTY CLAY (continued) DD = 62 PCF	1	0.2	102
419.61	1	B	
Loose, Gray, Fine- To Medium-Grained SAND	3		
	4	-	18
417.11	5		
Medium-Density, Gray, Fine- To Medium-Grained SAND -25	6		
	7	-	-
	8		
414.61	4		
Medium-Density, Gray-Brown, Medium-Grained SAND With Occasional Fine-Grained Gravel	6	-	-
412.11	7		
Medium-Density, Gray, Fine- To Coarse-Grained GRAVEL With Considerable Medium- To Coarse-Grained Sand And Silty Clay -30	4		
	6	-	-
	12		
408.61	71/6"	4.5	15
Hard, Dark Gray CLAY SHALE		P	
407.61			
End of Boring -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)

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ROUTE _____ DESCRIPTION Spring Lake Causeway Bridge Replacement LOGGED BY T. Fehl

SECTION IDNR LOCATION Tazewell County, SEC. 3, TWP. T23N, RNG. R7W,
Latitude , Longitude

COUNTY Tazewell DRILLING METHOD Hollow-Stem Augers HAMMER TYPE Automatic

STRUCT. NO. 090-3041
Station 4+70

BORING NO. B-02
Station 5+14
Offset 8.6 ft Left
Ground Surface Elev. 441.33 ft

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

Groundwater Elev.:
First Encounter 431.8 ft ▼
Upon Completion 431.1 ft ▽
After - Hrs. - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
OIL & CHIP (1.5") 441.21			
Brown, SANDY CLAY With Some Fine-Grained Gravel (6.0") 440.83			
Stiff, Dark Gray SILTY CLAY With Some Crushed Limestone (Fill)	2		
DD = 102 PCF	2	1.2	25
437.33	2	B	
Stiff, Dark Brown CLAY With Some Coarse-Grained Sand (Fill) -5	5		
DD = 94 PCF	5	1.0	27
	6	B	
434.33	2		
Medium, Dark Gray SANDY CLAY LOAM With Brick Fragments (Fill)	3	0.7	16
432.33	2	P	
Loose, Gray, Fine- To Medium-Grained SAND And SILTY CLAY LOAM -10 ▼	3		
	3	-	15
	2		
429.33	1		
Soft, Dark Gray SILTY CLAY With Some Organic Matter	1	0.4	29
DD = 89 PCF	2	B	
	1		
DD = 85 PCF -15	2	0.3	33
	1	B	
424.33	1		
Very Soft, Black ORGANIC SILTY CLAY LOAM	1	0.2	95
DD = 66 PCF	1	B	
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	1		
Very Soft, Black ORGANIC SILTY CLAY LOAM (continued) DD = 74 PCF	1	0.3	77
418.83	1	B	
Loose, Gray, Fine- To Medium-Grained SAND	3		
	4	-	17
416.83	4		
Medium-Density, Gray, Fine- To Medium-Grained SAND -25	4		
	5	-	-
	6		
414.83	5		
Medium-Density, Gray, Fine- To Medium-Grained SAND With Some Silty Clay	6		
412.33	5	-	-
Medium-Density, Gray-Brown, Fine- To Coarse-Grained GRAVEL With Considerable Medium- To Coarse-Grained Sand And Silty Clay -30	9		
	6		
	7	-	
	12		
408.83	50/3"	4.5	16
Hard, Dark Gray CLAY SHALE		P	
407.33			
End of Boring -35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BBS, form 137 (Rev. 8-99)

FILE NAME = L:\IDOT\11806610\WO.14\D-ew\CADD.Sheets\090_WO-14_Soil Borings.dgn	USER NAME = Jim Michael	DESIGNED - CJW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORINGS SPRING LAKE STATE PARK	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RAH	REVISED -			459	PARK ROADS	TAZEWELL	10	8
	PLOT SCALE = 60.0000 ' / in.	CHECKED - JMM	REVISED -					CONTRACT NO. 46261		
	PLOT DATE = 2/4/2013	DATE - FEBRUARY 2013	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		