Illinois Department of Transportation
Division of Highways
WHITNEY & ASSOCIATES

SOIL BORING LOG

Date 10/31/11

ROUTE FAS 393 DESCRIPTION Knox County Highway 4 Improvements LOGGED BY T. Fehl

SECTION 09-00001-00-RS LOCATION Walnut Township, SEC. 15, TWP. T13N, RNG. R3E,
Latitude , Longitude

COUNTY Knox DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. SB-02
Station 47+75
Offset 11.0 ft Left
Ground Surface Elev. 729.50 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 712.0 ft ▼
Upon Completion 717.5 ft ▽
After - Hrs. - ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
OIL And CHIPS (4.0")	729.17				
CRUSHED LIMESTONE (10.0")	728.67				
Medium, Black ORGANIC SILTY CLAY LOAM A-6			1		
			1	0.6	32
			2	B	
		-5	1		
			2	0.7	30
			2	B	
	723.00				
Soft, Gray-Brown And Light Brown CLAY LOAM A-6			1		
			2	0.4	24
			2	B	
		-10	1		
			2	0.3	25
			2	B	
	718.00				
Soft, Dark Gray SILTY CLAY A-7-6 ▽			1		
			1	0.3	32
			1	B	
	715.50				
Soft, Gray SILTY CLAY LOAM A-6		-15	0		
			1	0.3	28
			1	B	
	713.00				
Hard, Gray-Brown CLAY LOAM A-6 (Glacial Till) ▼			8		
			10	5.3	11
			12	B	
		-20			
Hard, Gray-Brown CLAY LOAM A-6 (Glacial Till) *(continued)*			10		
			12	7.1	10
			16	B	
	708.00				
Hard, Gray LOAM A-4 (Glacial Till)			18		
			18	6.3	9
			17	B	
		-25	21		
			18	7.9	9
			16	B	
	701.00				
Hard, Dark Gray SHALE			71/6"	4.5	12
				P	
	700.00				
Very Dense, Black COAL		-30	73/6"	-	16
	697.50				
Hard, Gray SHALE					
		-35			
			87/6"	4.5	10
				P	
	693.50				
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)

SOIL BORING LOGS
KNOX COUNTY
SECTION 12-00001-01-RS
C.H. 4 OVER WALNUT CREEK TRIBUTARY

SHEET NO. 5	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 4	12-00001-01-RS	KNOX	174	80
5 SHEETS	S.N. 048-5038		CONTRACT NO. 89614		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT RS-0393(105)		

3275CULVOS-EAST