Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Page 1 of 1

Date 11/6/09

ROUTE 331 DESCRIPTION IL Route 13 over BNSF Railroad near Marathon Drive LOGGED BY KEG

SECTION LOCATION Marion, SECS. 10SW & 15NW, TWP. 9S, RNG. 2E

COUNTY Williamson DRILLING METHOD CME 55LC w/HSA HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. SB-12
Station 1749+04.68
Offset 101.46ft Lt
Ground Surface Elev. 446.2 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 433.2 ft ▼
Upon Completion 410.2 ft ▽
After - Hrs. - ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
GRASS, TOPSOIL, & CRUSHED ROCK - 12 inches	445.18				
FILL: Brown, clay, trace to some sand (A-7)			3		
			4	3.5	20
			4	P	
Some sand, trace rock fragments			4		
			5	3.0	20
		-5	5	P	
CLAY: Gray and brown (A-7) No Recovery	440.68		WH		
			WH	-	
			1		
			2		
			3	1.1	28
		-10	3	B	
SILTY CLAY: Grayish brown and brown (A-7)	435.68		WH		
			1	0.7	24
			2	B	
				1.3	20
				B	
		-15			
CLAY: Brown and gray, trace sand (A-7)	430.68		1		
			2	1.2	24
			2	B	
Some sand Shelby tube - 23 inches recovery. Unconfined compression strength test performed with results shown in Qu and Moist. columns. Dry density - 108.9 pounds per cubic foot.				0.8	20
		-20		S	
CLAY: Brown and gray, trace sand (A-7) *(continued)*			1		
			3	2.3	19
			4	B	
CLAYEY SHALE: Brown	423.18		28		
			50	-	13
		-25	50/3"		
			30		
			50	-	12
			50/2"		
			36		
			50/4"	-	10
		-30	50/3"		
Becomes gray			50/4"	-	6
			50/2"		
		-35			
	407.18		50/4"	-	10
			50/2"		
		-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, from 137 (Rev. 8-99)

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

FILE NAME = L:\IDOT\ 0906003\Draw\CADD_Sheets\ STRUCTURAL PLANS\MSE WALLS\ 100-W002\ 100W002-98859-019-Borings.dgn

USER NAME = Gary Davis
PLOT SCALE = 1.0000 ' / IN.
PLOT DATE = 12/7/2011

DESIGNED - JMW
CHECKED - REB
DRAWN - AJK
CHECKED - REB

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 100-W002
SHEET NO. 19 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(IX-1) VB-1, B-1, N-4, R-3	WILLIAMSON	367	275

CONTRACT NO. 98859
ILLINOIS FED. AID PROJECT