Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Page 1 of 2

Date 11/9/09

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-3
Station 1742+81.27
Offset 40.66ft Rt
Ground Surface Elev. 445.2 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 431.7 ft ▼
Upon Completion 415.2 ft ▽
After - Hrs. - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Stratum / Notes
				GRASS, TOPSOIL, & CRUSHED ROCK - 12 inches
444.20				
	3			FILL: Brown, clay, some sand, trace rock (A-7)
	2	2.0	24	
	2	B		
442.20				
	3			FILL: Grayish brown, silty clay, some sand (A-7)
	3	3.5	19	
-5	3	P		
439.70				
	2			CLAYEY SILT: Grayish brown (A-4)
	WH	<0.25	29	
	2	P		
437.20				
	2			CLAY: Gray and brown, trace sand (A-7)
	4	1.9	25	
-10	4	B		
434.70				
	1			SILTY CLAY: Grayish brown, trace to some sand (A-7)
	2	0.8	21	
	2	B		
432.20				
				SILTY CLAY: Grayish brown and brown, some sand (A-6)
		0.9	22	
-15		S		Shelby tube - 22 inches recovery. Unconfined compression strength test performed with results shown in Qu and Moist. columns. Dry density - 104.3 pounds per cubic foot.
429.45				
	2			CLAY: Brown, trace to some sand (A-7)
	2	1.4	33	
	2	B		
	WH			
	3	1.1	20	
-20	2	B		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Stratum / Notes
				CLAY: Brown, trace to some sand (A-7) *(continued)*
				Some sand, trace fine gravel
	WH			
	WH	1.2	19	
	5	B		
	3			
	5	1.7	18	
-25	6	B		
	2			
	3	<0.25	18	
	7	P		
	2			No gravel
	5	2.7	18	
▽-30	8	S		With black organic deposit
	5			
	7	2.4	21	
-35	11	S		
408.40				
				CLAYEY SHALE: Brown and gray
	20			
	50/4"	-	17	
-40	50/2"			

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)

Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Page 2 of 2

Date 11/9/09

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-3
Station 1742+81.27
Offset 40.66ft Rt
Ground Surface Elev. 445.2 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 431.7 ft ▼
Upon Completion 415.2 ft ▽
After - Hrs. - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Stratum / Notes
				CLAYEY SHALE: Brown and gray *(continued)*
				Becomes gray
	50/0"	-	10	
-45	50/1"			
396.50				
	50/2"	-	12	
	50/0"			
-50				
-55				
-60				

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\ 0906603\Draw\CADD_Sheets\ STRUCTURAL PLANS\MSE WALLS\ 100-W001\ 100W001-98859-015-Borings.dgn	USER NAME = Gary Davis	DESIGNED - JMW	REVISED -
		CHECKED - REB	REVISED -
	PLOT SCALE = 1.0000 ' / IN.	DRAWN - AJK	REVISED -
	PLOT DATE = 12/7/2011	CHECKED - REB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 100-W001
SHEET NO. 15 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1X-1) VB-1, B-1, N-4, R-3	WILLIAMSON	367	254
		CONTRACT NO. 98859		
		ILLINOIS FED. AID PROJECT		