



Illinois Department of Transportation
Division of Highways
SCI Engineering

SOIL BORING LOG

Page 1 of 1

Date 10/04/10

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

SECTION (1X-1)VB-1 LOCATION Marion, SECS. 10SW & 15NW, TWP. 9S, RNG. 2E

COUNTY Williamson DRILLING METHOD CME 550/HSA HAMMER TYPE Automatic

STRUCT. NO.100-0093(WB)0094(EB) Station	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)	Surface Water Elev. ft	Stream Bed Elev. ft	GROUNDWATER ELEV. First Encounter 425.0 ft Upon Completion - ft After - Hrs. -	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)
GRASS & TOPSOIL - 12 inches	437.5										
FILL: Brown and gray, clay (A-7)	2 1 2	0.8 B	24								
SILTY CLAY: Gray and brown (A-6)	2 1 2	0.4 B	22								
CLAY: Gray (A-7)	2 1 3	0.5 B	20								
Becomes gray and brown	1 3 3	0.5 B	25								
SILTY CLAY: Brown, some sand (A-6)	1 2 2	0.1 B	22								
SILTY CLAY: Brown (A-7)	1 1 2	0.8 B	30								
CLAY: Brown and gray (A-7)	2 3 3	1.1 B	34								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



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ROCK CORE LOG

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SECTION (1X-1)VB-1 LOCATION Marion, SECS. 10SW & 15NW, TWP. 9S, RNG. 2E

COUNTY Williamson CORING METHOD Rotary, surface set diamond bit

STRUCT. NO.100-0093(WB)0094(EB) Station	DEPTH (ft)	CORING BARREL TYPE & SIZE Core Diameter 1.9 in Top of Rock Elev. 416.3 ft Begin Core Elev. 414.1 ft	RECOVERY (%)	CORRECTION (%)	CORE TIME (min/ft)	STRENGTH (tsf)	MOISTURE (%)
CLAYEY SHALE: Gray and brown	414.1 413.3		1	83	45	5	
SHALE: Gray	412.3						
CLAYEY SHALE: Gray	411.7					24.0	8
SHALE: Dark gray							
Samples in Run 2 not conducive to perform compressive strength testing.			2	100	78	8	
COAL	405.5		3	97	15	5	50.0
SHALE: Gray	403.5		4	100	91	6	9.0
CALCAREOUS SHALE: Gray	401.5						
			5	98	72	6	127.0

Color pictures of the cores Yes
Cores will be stored for examination until
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)



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

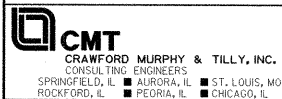
SECTION (1X-1)VB-1 LOCATION Marion, SECS. 10SW & 15NW, TWP. 9S, RNG. 2E

COUNTY Williamson CORING METHOD Rotary, surface set diamond bit

STRUCT. NO.100-0093(WB)0094(EB) Station	DEPTH (ft)	CORING BARREL TYPE & SIZE Core Diameter 1.9 in Top of Rock Elev. 416.3 ft Begin Core Elev. 414.1 ft	RECOVERY (%)	CORRECTION (%)	CORE TIME (min/ft)	STRENGTH (tsf)	MOISTURE (%)
CALCAREOUS SHALE: Gray (continued)	388.1						
Boring terminated at 50.4 ft.							

Color pictures of the cores Yes
Cores will be stored for examination until
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

FILE NAME = I:\data\98859\Draw\Code\Structure\Structure\Draw\Boring_Logs_B.dgn



USER NAME = Gary Davis	DESIGNED - MCC	REVISED -
PLOT SCALE =	CHECKED - ATI	REVISED -
PLOT DATE = 12/7/2011	DRAWN - GLD	REVISED -
	CHECKED - ATI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS VIII
STRUCTURE NO. 100-0093 (W.B.) & 100-0094 (E.B.)

F.A.P. RTE. 331	SECTION (1X-1)VB-1	COUNTY WILLIAMSON	TOTAL SHEETS 367	SHEET NO. 207
				CONTRACT NO. 98859

SHEET NO. S-41 OF S-41 SHEETS

ILLINOIS FED. AID PROJECT