STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

Page 1 of 4

Date 8/13,14/08

ROUTE FAP 312 (IL 3) DESCRIPTION Structure Boring LOGGED BY SCI

SECTION 64-1VBR LOCATION Bridge crossing UPRR and Prairie Dupont Canal - North of Dupo, SEC., TWP., R

COUNTY St. Clair DRILLING METHOD CME 55 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-0030 (existing)
Station
BORING NO. B-101
Station 276+20
Offset 40 ft Lt
Ground Surface Elev. 443.8 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 383.8 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
443.8 CRUSHED ROCK - 2 inches			
FILL: Brown and gray low plastic silty clay, some sand (A-7)	4 4 4	2.3 P	27
441.0 FILL: Brown low plastic silty clay, some sand (A-6)	3 4 3	1.1 B	31
-5 439.4 FILL: Gray high plastic clay, some sand (A-7)	3 3 4	1.3 S/15	25
	3 3 5	1.5 B	19
-10 432.8 FILL: Gray low plastic silty clay, some sand (A-6)	2 3 5	1.8 P	30
430.6 FILL: Dark gray high plastic clay, some sand layers (A-7)	3 5 6	2.5 P	24
-15	2 4 5	3.0 P	27
425.0 FILL: Gray low plastic clayey silt, some sand (A-4)	3 6 7	3.0 P	24
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Dark gray high plastic clay, some sand layers (A-7) (continued) 422.3			
FILL: Gray low plastic silty clay, some sand (A-6) 421.8	4 6 10	4.0 P	24
FILL: Gray fine sand (A-3) 419.3			
SILTY CLAY: Gray, low plastic (A-6)	2 3 6	1.9 S/10	30
418.2 CLAY: Gray and brown, high plastic, some sand layers (A-7)	2 3 5	1.3 B	30
	3 6 7	3.1 B	29
	2 4 5	1.8 S/10	29
	3 5 4	2.2 B	26
-40			

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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SILTY CLAY: Gray, low plastic, some sand (A-6) (continued)			
423.2 CLAY: Gray and brown, high plastic (A-7)	2 5 6	2.4 B	33
-45			
	2 4 4	1.9 B	35
-50			
399.9 SILTY CLAY: Gray, low plastic, some sand (A-6)	1 2 3	0.6 B	35
-55			
397.9 ▼ CLAYEY SILT: Gray, low plastic, some sand (A-4)	0 2 2	-	26
-60			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAYEY SILT: Gray, low plastic, some sand (A-4) (continued) Started mud rotary at 60 feet. 390.7			
SAND: Gray, fine (A-3)	11 12 12	-	
-65			
Grades to fine to medium, trace sand, gravel	9 11 8	-	
-70			
Grades to medium to coarse	6 10 7	-	
-75			
	8 8 8	-	
-80			

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DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND: Gray, fine (A-3) (continued)			
	9 17 15	-	
-85			
	7 8 12	-	
-90			
	13 9 15	-	
-95			
	9 10 14	-	
-100			
SAND: Gray, fine (A-3) (continued)			
-105			
Grades to fine to medium, some gravel	6 12 14	-	
-110			
-115			
Grades to medium to coarse, trace gravel	13 19 25	-	
-120			

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DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND: Gray, fine (A-3) (continued)			
-125			
	12 16 26	-	
-130			
-135			
	19 18 10	-	
-140			
SAND: Gray, fine (A-3) (continued)			
301.8 GRAVEL (A-1)			
-145			
	50/5"	-	
-150			
293.3 LIMESTONE 292.8 Refusal at 151.0 feet with tri-cone bit on limestone.			
-155			
-160			

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DESIGNED	-
CHECKED	-
DRAWN	AJF
CHECKED	EML

BORING LOGS
STRUCTURE NO. 082-0038

HORNER & SHIFRIN, INC.
ENGINEERS

SHEET NO. 44	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
48 SHEETS	312	64-1VBR	ST. CLAIR	259	96
			CONTRACT NO. 76882		
		ILLINOIS	FED. AID PROJECT		