STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
SCI Engineering, Inc.

Page 1 of 4

Date 8/15,18/08

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-105
Station 286+10
Offset 40 ft Rt.
Ground Surface Elev. 448.6 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 388.6 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				FILL: Brown low plastic silty clay, trace sand
449.1				
				FILL: Gray high plastic clay
445.1				
	4 4 6	1.5 P	20	FILL: Gray low plastic silty clay, some sand layers
-5				
	2 6 8	0.8 S/S	20	
440.2				
	2 5 7	2.3 B	20	FILL: Gray low plastic clayey silt, some sand
439.1 -10				FILL: Dark gray high plastic clay, trace sand (A-7)
437.8				
	2 4 5	1.3 P 3.0 P	24	FILL: Gray low plastic clayey silt, some sand (A-4)
437.1				FILL: Gray low plastic silty clay, some gray high plastic clay (A-7)
435.4				
	3 6 8	1.5 P 1.0 P	25	FILL: Gray and brown low plastic silty clay, some sand (A-7)
434.2 -15				FILL: Brown low plastic clayey silt, some sand (A-4)
432.7				
	3 5 6	-	19	FILL: Gray low plastic silty clay (A-6)
431.8				FILL: Brown high plastic clay, some sandy silt layers (A-7)
		1.8 P		
	3 7 8	1.5 P	18	
428.6 -20				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				FILL: Brown and gray low plastic silty clay, some sand, some high plastic clay (A-7)
425.6				
	3 6 8	-	32	
				FILL: Brown low plastic sandy silt, some high plastic clay (A-7)
423.8				
	2 5 8	0.5 P	22	
422.8				
				SILTY CLAY: Gray, low plastic, some sand (A-6)
422.1				
	2 4 4	2.2 B	32	CLAY: Gray, high plastic (A-7)
				Trace sand
	2 5 7	2.8 B	24	
-30				
				Some sand layers
	3 7 11	2.5 B	21	
-35				
419.4				
				SILTY CLAY: Brown and gray, low plastic, trace sand (A-6)
	3 5 7	2.8 P	24	
408.6 -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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Stream Bed Elev. ft
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First Encounter 388.6 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				SAND: Brown, fine (A-3)
	3 7 7	-		
-45				
409.8				
				SANDY SILT: Brown, low plastic, some silty clay (A-4)
	1 2 9	-	32	
399.1 -50				SAND: Reddish brown, fine (A-3) Started mud rotary at 50 feet
				Becomes brownish gray
	9 9 9	-		
-55				
388.6 ▼ -60				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				SAND: Brownish gray, fine to medium (A-3)
	6 9 9	-		
-65				
				Grades to medium
	11 19 20	-		
-70				
				Grades to medium to coarse
	11 9 13	-		
-75				
388.6 -80				

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DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				SAND: Gray, fine to medium (A-3)
	14 21 21	-		
-85				
	9 11 15	-		
-90				
				Grades to medium to coarse, trace gravel
	7 16 18	-		
-95				
-100				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				SAND: Gray, fine to medium (A-3) *(continued)*
-105				
	14 15 10	-		
-110				
-115				
337.8				
				GRAVEL (A-1)
331.1				
				SAND: Gray, medium to coarse, trace gravel (A-3)
	12 8 12	-		
-120				

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First Encounter 368.6 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				SAND: Gray, medium to coarse, trace gravel (A-3) *(continued)*
-125				
	10 11 9	-		
-130				
-135				
	17 23 27	-		
-140				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				SAND: Gray, medium to coarse, trace gravel (A-3) *(continued)*
-145				
	23 30 33	-		
-150				
292.1				
				Refusal at 156.5 feet with tri-cone bit on limestone.
-155				
-160				

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DESIGNED	-
CHECKED	-
DRAWN	AJF
CHECKED	EML

HORNER & SHIFRIN, INC.
ENGINEERS

BORING LOGS
STRUCTURE NO. 082-0038

SHEET NO. 48	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
48 SHEETS	312	64-1VBR	ST. CLAIR	259	100
			CONTRACT NO. 76882		
		ILLINOIS	FED. AID PROJECT		