STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
SCI Engineering, Inc.

Date 07/28/08

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-103
Station 280+60
Offset 40 ft Rt.
Ground Surface Elev. 405.6 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 385.3 ft ▼
Upon Completion ft
After Hrs. ft

Description	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
FILL: Brown low plastic silty clay (A-6)		2 3 3	1.8 B	28
Becomes brown and gray	-5	2 1 2	0.5 P	27
SILTY CLAY: Gray, low plastic, trace fine sand, trace gravel (A-7)	399.6 -10	1 3 3	1.2 B	24
	-15	1 2 2	1.3 B	25
CLAYEY SILT: Brown, low plastic (A-4)	389.6	0 0 0	<0.25 P	32
	-15	0 0 0	<0.25 P	30
CLAY: Gray, high plastic (A-7)	369.6	0 1 2	0.5 B	34
	▼-20	1 2 2	1.0 S/10	45

Description	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
CLAY: Gray, high plastic (A-7) *(continued)*		1 1 1	0.3 B	45
Some fine sand		0 0 1	0.3 P	44
SILTY CLAY: Gray, low plastic, some fine sand (A-6)	381.1 -25			
CLAY: Gray, high plastic (A-7)	379.6	0 0 0	0.5 B	43
Some fine sand layers		0 1 1	0.6 B	40
SAND: Gray, fine to medium (A-3) Started mud rotary at 30 feet.	375.6 -30			
	-35	3 3 2	-	
Trace fine gravel	365.6 -40	6 11 12	-	

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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SAND: Gray, fine (A-3)		8 14 18	-	
	-45			
		11 19 18	-	
	-50			
Grades to fine to coarse		12 14 14	-	
	-55			
Grades to medium to coarse		4 8 13	-	
	345.6 -60			

Description	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SAND: Gray, medium to coarse (A-3)				
Grades to fine		11 23 32	-	
	-65			
Grades to medium to coarse, trace fine gravel		15 5 9	-	
	-70			
Grades to fine to medium		21 33 39	-	
	-75			
Grades to medium to coarse, trace fine gravel		10 10 9	-	
	325.6 -80			

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Description	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SAND: Gray, medium to coarse, trace fine gravel (A-3)		8 7 7	-	
	-85			
		10 11 13	-	
	-90			
Grades to fine to medium		0 15 12	-	
	-95			
		12 20 25	-	
	305.6 -100			

Description	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SAND: Gray, fine to medium (A-3)				
GRAVEL: Gray, fine, trace sand (A-1)	303.6			
	-105			
		6 8 16	-	
	-110	23		
LIMESTONE	293.1			
Refusal at 112.5 with tri-cone bit on limestone.	292.1			
	-115			
	-120			

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DESIGNED	-
CHECKED	-
DRAWN	AJF
CHECKED	EML

BORING LOGS
STRUCTURE NO. 082-0038

HORNER & SHIFRIN, INC.
ENGINEERS

SHEET NO. 46	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
48 SHEETS	312	64-1VBR	ST. CLAIR	259	98
			CONTRACT NO. 76882		
		ILLINOIS	FED. AID PROJECT		