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 385.6 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	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			2 1 2	0.5 P	27
SILTY CLAY: Gray, low plastic, trace fine sand, trace gravel (A-7)	389.6		1 3 3	1.2 B	24
			1 2 2	1.3 B	25
CLAYEY SILT: Brown, low plastic (A-4)	385.6	10	0 0 0	<0.25 P	32
			0 0 0	<0.25 P	30
CLAY: Gray, high plastic (A-7)	369.6	15	0 1 2	0.5 B	34
		20	1 2 2	1.0 SP10	45
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	1	B	
			3 3 2	-	
Trace fine gravel	365.6	40	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)

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 385.6 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND: Gray, fine (A-3)			8 14 19	-	
		45	11 19 18	-	
Grades to fine to coarse		50	12 14 14	-	
Grades to medium to coarse	345.6	60	4 8 13	-	
SAND: Gray, medium to coarse (A-3)			11 23 32	-	
Grades to fine		65			
Grades to medium to coarse, trace fine gravel		70	15 8 9	-	
Grades to fine to medium		75	21 33 39	-	
Grades to medium to coarse, trace fine gravel	325.6	80	10 10 9	-	

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)

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 385.6 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND: Gray, medium to coarse, trace fine gravel (A-3)			6 7 7	-	
		95			
Grades to fine to medium	305.6	100	10 11 13	-	
			12 20 25	-	
SAND: Gray, fine to medium (A-3)	303.6				
GRAVEL: Gray, fine, trace sand (A-1)			6 8 16 23	-	
		105			
		110			
LIMESTONE	293.1				
Refusal at 112.5 with tri-cone bit on limestone.	292.1				
		115			
		120			

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)

DESIGNED	-
CHECKED	-
DRAWN	AJF
CHECKED	EML

HORNER & SHIFRIN, INC.
ENGINEERS

BORING LOGS
STRUCTURE NO. 082-0038

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		