Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

GSI Job No. 10025
Page 1 of 1
Date 5/3/12

ROUTE FAP 372 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY NW

SECTION 2013-038B-R LOCATION SE 1/4, SEC. 11, TWP. T38N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. 016-2457
Station 58+29.83

BORING NO. SB-22
Station 54+37
Offset 49.80ft Left
Ground Surface Elev. 622.40 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter n/a ft
Upon Completion n/a ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
9.5" CONCRETE BRIDGE DECK 621.61			
VOID			
-5			
-10			
-15			
603.40 CINDERS & SAND-brown-very loose to loose (Fill)	4		
-20	5		19
CINDERS & SAND-brown-very loose to loose (Fill) *(continued)*	5 5		
	3		
	5 4 6		22
	3		
-25	2 2		19
	1		
	1 1		38
	2		
-30	1 2		80
590.40 SILTY CLAY LOAM-gray-dense			
	3		
-35	15 25		11
583.90 Borehole continued with rock coring.			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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ROCK CORE LOG

PAGE 1 of 1
DATE 5/3/2012
LOGGED BY DR
GSI JOB No. 10025

FAP 372 (IL 171) DESCRIPTION 1st Ave. Bridge Rehabilitation & Replacement. 47th St. to 55th St.

SECTION 2013-038B-R LOCATION SEC 11, 12, 13 & 14 T 38 N, R 12 E, 3rd PM

COUNTY Cook CORING METHOD Rotary Wash

STRUCT. NO. 016-2457 CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station 58+29.83 Core Diameter 2.0 in
Top of Rock Elev. 583.9

BORING NO. SB-22
Station 54+37
Offset 49.8' Left
Ground Surface Elev. 622.4
Begin Core Elev. 583.9

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORETIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE RUN 1 (−38.5' to −48.5') Light gray mottled gray with horizontal bedding. Porous with some horizontal fractures throughout. Clay seam from −39.2' to −40.0'.	1	100.0	88.0	n/a	844 @ −38.5'
−43.5					
−48.5					

Color pictures of the cores Yes Cores will be stored for examination for —
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D−2938)

benesch
engineers · scientists · planners
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10093

FILE NAME = 0162457_60J16_082_Soil Boring Logs 1.dgn	USER NAME = ksnider	DESIGNED - FSM	REVISED -
		CHECKED - RMM	REVISED -
	PLOT SCALE =	DRAWN - FSM	REVISED -
	PLOT DATE = 12/20/2013	CHECKED - RMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS – PIER 5
STRUCTURE NO. 016–2457
SHEET NO. SD82 OF SD83 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	COOK	821	457
		CONTRACT NO. 60J16		
		ILLINOIS FED. AID PROJECT		

Z:\PROJECTS\2011\1005 BENESCH, IL-171 FIRST AVE (IDOT FTB 154, ITEM 1411005)\BORING LOGS\1005_LOG.GPJ 11/7/13
Y:\chicago\10000S\10093\Eng_Docs_Phase_II\SN_016_2456_2457_1st_Ave_over_Des_Plaines_River_Valley\Final\2457 Final\0162457_60J16_082_Soil Boring Logs 1.dgn
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