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 2
Date 5/3/12

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

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. 016-0483
Station 50+80.50

BORING NO. SB-18
Station 49+28
Offset 46.00ft Left
Ground Surface Elev. 619.80 ft

Surface Water Elev. 589.80 ft
Stream Bed Elev. 586.80 ft

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
9.0" CONCRETE BRIDGE DECK	619.05				
VOID		-5			
		-10			
		-15			
		-20			
VOID *(continued)*		-25			
		-30			
WATER	589.80				
	586.80				
Organic SANDY SILT-black-very loose		-35	1 0 0		59
	580.80		17		
SILTY CLAY-gray-hard		-40	38 32	5.6 B	13

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)

Z:\PROJECTS\2010\10025 BENESCH, IL-171 FIRST AVE. (IDOT PTB 154, ITEM 14)\10025 BORING LOGS\10025_LOG.GPJ 11/13/13

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Page 2 of 2
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COUNTY Cook DRILLING METHOD MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. 016-0483
Station 50+80.50

BORING NO. SB-18
Station 49+28
Offset 46.00ft Left
Ground Surface Elev. 619.80 ft

Surface Water Elev. 589.80 ft
Stream Bed Elev. 586.80 ft

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY-gray-hard *(continued)*	575.80		20		
SAND-gray-dense		-45	22 21		21
	570.80		22		
SILTY CLAY LOAM-gray-very dense		-50	27 34		16
Some cobbles & boulders from -53.5' to to -58.5'.		-55	50/5"		12
	561.30				
Drillers Observation: Apparent bedrock.	559.80	-60			
Borehole continued with rock core					

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 RJ
GSI JOB No. 10025

IL Rte. 171, F.A.P. 372 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. SN016-0483 CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station 50+80.50 Core Diameter 2.0 in
BORING NO. SB-18 Top of Rock Elev. 561.3
Station 49+28 Begin Core Elev. 559.8
Offset 46.0' Left
Ground Surface Elev. 619.8

Description	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE RUN 1 (−60.0' to −70.0') Light gray with horizontal bedding. Slightly porous to −66.0'. Some horizontal fractures throughout.	−65 −70	1	97.0	79.5	n/a	202 @ −60.0'

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 =	USER NAME = tjanicke	DESIGNED - FSM	REVISED -
		CHECKED - RMM	REVISED -
0160483_60J16_043_Soil Boring Logs 2.dgn	PLOT SCALE =	DRAWN - FSM	REVISED -
	PLOT DATE = 12/20/2013	CHECKED - RMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (2 OF 5)
STRUCTURE NO. 016-0483
SHEET NO. SE43 OF SE46 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	COOK	821	527
		CONTRACT NO. 60J16		
		ILLINOIS FED. AID PROJECT		

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