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 5/4/12

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. 016-0483
Station 50+80.50
BORING NO. SB-19
Station 50+93
Offset 44.00ft Left
Ground Surface Elev. 620.30 ft

Surface Water Elev. - ft
Stream Bed Elev. - 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	619.55				
VOID					
		-5			
		-10			
		-15			
		-20			
VOID *(continued)*					
		-25			
		-30			
Water	590.30				
		-35			
CLAY LOAM-brown & gray-very dense	583.30		7		
			21		15
			100/5"		
SILTY CLAY-gray-stiff to very stiff	581.30		3		
		-40	2		18

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\0025 BENESCH, IL-171 FIRST AVE. (IDOT PTB 154, ITEM 14)\10025 BORING LOGS\10025_LOG.GPJ 11/13/13

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SOIL BORING LOG

GSI Job No. 10025
Page 2 of 2
Date 5/4/12

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. 016-0483
Station 50+80.50
BORING NO. SB-19
Station 50+93
Offset 44.00ft Left
Ground Surface Elev. 620.30 ft

Surface Water Elev. - ft
Stream Bed Elev. - 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-stiff to very stiff *(continued)*			2		
			20		
Boulders from -44.0' to -56.0'.	575.80		50/2"	2.7 B	17
SANDY CLAY LOAM-gray-very dense		-45			
			50/1"		
		-50			
			50/5"		
					12
		-55			
Drillers Observation: Apparent bedrock.	564.80				
Borehole continued with rock coring.	564.30				
		-60			

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\0025 BENESCH, IL-171 FIRST AVE. (IDOT PTB 154, ITEM 14)\10025 BORING LOGS\10025_LOG.GPJ 11/13/13

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ROCK CORE LOG

PAGE 1 of 1
DATE 5/4/2012
LOGGED BY DR
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-19 Top of Rock Elev. 564.8
Station 50+93 Begin Core Elev. 564.3
Offset 44.0' Left
Ground Surface Elev. 620.3

Description	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE RUN 1 (-56.0' to -66.0') Light gray & fine grained with horizontal bedding. Some horizontal fractures throughout.		1	96.0	80.5	n/a	226 @ -56.2'
	-61.0					
	-66.0					

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_044_Soil Boring Logs 3.dgn	PLOT SCALE =	DRAWN - FSM	REVISED -
	PLOT DATE = 12/20/2013	CHECKED - RMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (3 OF 5)
STRUCTURE NO. 016-0483
SHEET NO. SE44 OF SE46 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	COOK	821	528
		CONTRACT NO. 60J16		
		ILLINOIS FED. AID PROJECT		

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