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

SOIL BORING LOG

GSI Job No. 10025
Page 1 of 2
Date 5/2/12

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 HSA/MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. 016-0483
Station 50+80.50

BORING NO. SB-17
Station 47+77
Offset 48.00ft Left
Ground Surface Elev. 619.70 ft

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

Groundwater Elev.:
First Encounter Dry to 17.5' ft
Upon Completion n/a ft
After ___ Hrs. ___ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT	618.70				
Clayey SAND, GRAVEL & STONE-medium dense (Fill)			7		
			4		13
			6		
CLAY LOAM-dark brown, gray & black-stiff to very stiff (Fill)	616.70				
			3		
			3	1.5	19
		-5	4	P	
			3		
			3		17
			3		
			3		
			4	1.5	18
		-10	5	P	
			3		
			5	2.0	15
			6	P	
			4		
			6		13
		-15	9		
			15		
			20	1.3	15
			23	B	
			8		
			8	1.0	30
		-20	8	P	
CLAY LOAM-dark brown, gray & black-stiff to very stiff (Fill) *(continued)*			6		
			14	1.5	28
			16	P	
			6		
			8	1.0	19
		-25	9	P	
Clayey GRAVEL & FRACTURED ROCK-gray-dense	594.20		9		
			10		12
			18		
SAND, GRAVEL & FRACTURED ROCK-gray-dense to very dense	591.70		12		
			18		9
		-30	25		
			40		
			50/1"		10
		-35			
SILT-gray-very dense	582.70		51		
			50/1"		19
		-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)

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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SOIL BORING LOG

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

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 HSA/MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. 016-0483
Station 50+80.50

BORING NO. SB-17
Station 47+77
Offset 48.00ft Left
Ground Surface Elev. 619.70 ft

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

Groundwater Elev.:
First Encounter Dry to 17.5' ft
Upon Completion n/a ft
After ___ Hrs. ___ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILT-gray-very dense *(continued)*					
SILTY CLAY LOAM with Fractured Rock-gray-very dense	577.70		48		
			50/2"	2.5	14
		-45		P	
			49		
			50/2"		10
		-50			
			28		
			50/5"		11
		-55			
Drillers Observation: Apparent bedrock.	561.20		50/1"		
		-60			
Drillers Observation: Apparent bedrock. *(continued)*	558.70				
Borehole continued with rock coring.		-65			
		-70			
		-75			
		-80			

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 5/1/2012
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-17 Top of Rock Elev. 561.2
Station 47+77 Begin Core Elev. 558.7
Offset 48.0' Left
Ground Surface Elev. 619.7

Description	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE RUN 1 (−61.0' to −71.0') Light gray mottled gray, fine grained with horizontal bedding. Some horizontal fractures throughout. Vertical fracture from −62.5' to −63.9'.		1	91.5	69.5	n/a	139 @ −61.2'
	−66					
	−71					

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)

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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_042_Soil Boring Logs 1.dgn	PLOT SCALE =	DRAWN - FSM	REVISED -
	PLOT DATE = 12/20/2013	CHECKED - RMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (1 OF 5)
STRUCTURE NO. 016-0483
SHEET NO. SE42 OF SE46 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	COOK	821	526
		CONTRACT NO. 60J16		
		ILLINOIS FED. AID PROJECT		