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 1/4/13

ROUTE FAP 373 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY JZ

SECTION 2013-038B-R LOCATION SW 1/4, SEC. 12, TWP. T38N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. 016-0486
Station 30+72.59

BORING NO. SB-10
Station 33+82
Offset 47.00ft Left
Ground Surface Elev. 624.60 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
9.0" CONCRETE BRIDGE DECK	623.85				
VOID					
6.0" TOPSOIL-black	605.10 / 604.60	-20	9		
CLAY LOAM-brown & gray-hard (Fill)			10, 11		14
			10, 12, 14	6.5 B	18
			12		
		-5	10, 10	4.7 B	15
SILTY CLAY-brown & gray-stiff	599.10	-25	3		
			4, 6	1.5 P	27
CLAY LOAM-gray-medium stiff to stiff	596.60		5		
		-10	8, 10	1.8 P	19
			10		
		-15	7, 6	0.8 B	17
SILTY CLAY LOAM-gray-loose	587.60		2		
		-40	3, 3	2.0 P	23

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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Page 2 of 2
Date 1/4/13

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SECTION 2013-038B-R LOCATION SW 1/4, SEC. 12, TWP. T38N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. 016-0486
Station 30+72.59

BORING NO. SB-10
Station 33+82
Offset 47.00ft Left
Ground Surface Elev. 624.60 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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY LOAM-gray-loose *(continued)*					
CLAY LOAM-gray-very stiff	582.60		15		
			25, 32	3.8 B	11
SILT-gray-dense to very dense	577.60	-45	30		
			36, 28		21
		-50			
			15		
			24, 33		23
CLAYEY GRAVEL & FRACTURED ROCK-gray-very dense	567.60	-55	30		
		-60	50/3"		15
CLAYEY GRAVEL & FRACTURED ROCK-gray-very dense *(continued)*			50/2"		
		-65			
Drillers Observation: COBBLES & BOULDERS	558.60				
Drillers Observation: Apparent bedrock.	555.10				
Borehole continued with rock coring.	554.60	-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 1/4/2013
LOGGED BY JK
GSI JOB No. 10025

FAP 373 (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. 016-0486 CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station 30+72.59 Core Diameter 2.0 in
BORING NO. SB-10 Top of Rock Elev. 555.1
Station 33+82 Begin Core Elev. 554.6
Offset 47.0' Left
Ground Surface Elev. 624.6

Description	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE RUN 1 (−70.0' to −80.0') Light gray mottled gray with horizontal bedding. Horizontal fractures −71.0', −71.1', −71.3' & −71.5'. Vertical fracture from −72.3' to −72.9'. Numerous horizontal fractures from −72.9' to −74.1'. Horizontal fractures @ −76.0', −76.1', −76.3', −76.7', −78.0' & −78.8'.		1	88.9	60.5	n/a	998 @ −70.2'
	−5					
	−10					

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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engineers · scientists · planners

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

FILE NAME = 0160486_60J16_096_Soil Boring Logs 3.dgn	USER NAME = jsurber	DESIGNED - FSM	REVISED -
		CHECKED - RMM	REVISED -
	PLOT SCALE =	DRAWN - FSM	REVISED -
	PLOT DATE = 8/6/2014	CHECKED - RMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS PIER 7
STRUCTURE NO. 016-0486

SHEET NO. SG96 OF SG100 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	2013-038B-R	COOK	821	686

CONTRACT NO. 60J16
ILLINOIS FED. AID PROJECT

Z:\PROJECTS\2010\10025 BENESCH, IL-171 FIRST AVE. (IDOT PTB 154, ITEM 14)\10025 BORING LOGS\10025_LOG.GPJ 11/18/13

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