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

GSI Job No. 10025

SOIL BORING LOG

Page 1 of 2

Date 1/9/13

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-13
Station 35+31
Offset 49.80ft Left
Ground Surface Elev. 623.90 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 (%)
9.0" CONCRETE BRIDGE DECK 623.15			
VOID			
-5			
-10			
-15			
603.90 -20			
CLAY LOAM-brown & gray-very stiff to hard (Fill)	3		
	6 8 8	8.5 S	17
	7		
	7 8 8	2.2 B	21
	6		
-25	6 8 8	2.4 B	20
597.90 SANDY LOAM with Stone-dark brown & gray-medium dense (Fill)	6		
	8 7 7		10
595.90 CLAY LOAM-brown & gray-stiff (Fill)	12		
	10 9 8	1.9 B	20
-30			
591.90 GRAVEL & STONE-medium dense to dense (Apparent Fill)	6		
	8 7		8
-35			
	4		
	5 5		5
-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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SOIL BORING LOG

Page 2 of 2

Date 1/9/13

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-13
Station 35+31
Offset 49.80ft Left
Ground Surface Elev. 623.90 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 (%)
GRAVEL & STONE-medium dense to dense (Apparent Fill) *(continued)*			
581.90 SILTY CLAY LOAM-gray-hard			
	31		
	33 39	11.7 S	11
-45			
	16		
	27 34	7.5 S	15
-50			
571.90 SILTY LOAM-gray-medium dense to dense	14		
	16 19	4.0 P	23
-55			
	9		
	12 14		25
-60			
SILTY LOAM-gray-medium dense to dense *(continued)*			
561.90 SILTY SAND, GRAVEL & FRACTURED ROCK-gray-very dense			
-65	32		
	50/4"		7
555.40 COBBLES & BOULDERS-very dense	50/1"		
553.90 -70 Drillers Observation: Apparent bedrock.			
551.90 Borehole continued with rock coring.			
-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 1/9/2013
LOGGED BY 1/9/2013
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-13 Top of Rock Elev. 553.9
Station 35+31 Begin Core Elev. 551.9
Offset 49.8' Left
Ground Surface Elev. 623.9

DEPTH (ft)	CORE	RECOVERY (%)	R.Q.D. (%)	CORETIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE					
RUN 1 (−72.0' to −82.0')					
Light gray becoming mottled gray @ −76.7'. Fine grained with horizontal bedding.					
Horizontal fractures @ −72.2', −72.4', −74.6', −74.8', −75.6', −76.7', −77.4' & −77.8'.					
Vertical fracture from −78.1' to −79.4'. Horizontal fractures @ −80.0', −80.6' & −80.8'.					
−77					
	1	90.1	64.5	n/a	1048 @ −72.5'
−82					

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 = 0160486_60J16_099_Soil Boring Logs 6.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 10
STRUCTURE NO. 016-0486
SHEET NO. SG99 OF SG100 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	2013-038B-R	COOK	821	689
		CONTRACT NO. 60J16		
	ILLINOIS	FED. AID PROJECT		

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Y:\chicago\10000s\10093\Eng_Docs_Phase_II\SN_016_0486_0487_1st_Ave_over_Canal\Final\0486_0160486_60J16_099_Soil Boring Logs 6.dgn
8/6/2014 7:32:29 PM