Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2638

GSI Job No. 10025

SOIL BORING LOG

Page 1 of 2

Date 3/16/12

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

SECTION (0707-608&611)HB-B & 0707-608HB-B-1 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. 016-1510 & 016-1511
Station 41+24.39

BORING NO. SB-49
Station 41+98
Offset 0.00ft
Ground Surface Elev. 602.70 ft

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

Groundwater Elev.:
First Encounter 588.7 ft ▼
Upon Completion n/a ft
After ___ Hrs. ___ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT	601.70				
CRUSHED STONE with Clay-medium dense (Fill)			9		
			6		9
			8		
CLAY LOAM-dark brown & gray-very stiff to hard (Fill)	599.20		4		
			5	3.9	14
		-5	6	S	
			13		
			15	4.5	11
			16	P	
SAND, GRAVEL & FRACTURED ROCK-gray-medium dense to very dense	594.70		20		
			16		3
		-10	16		
			8		
			9	5	
			9		
		▼	9		
			10	9	
		-15	10		
			8		
			9	8	
			9		
			9		
			11	10	
		-20	9		
SAND, GRAVEL & FRACTURED ROCK-gray-medium dense to very dense *(continued)*			50/5"		
					9
Clayey SAND, GRAVEL & FRACTURED ROCK-gray-very dense	579.70		50/3"		
					8
		-25			
			50/6"		
					8
			50/5"		
					8
		-30			
			50/5"		
					10
		-35			
			50/2"		
					10
	562.70	-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:\PROJECT\SGI\01\10025 BENESCH, IL-171 FIRST AVE (IDOT PTB 154, ITEM 14)\10025 BORING LOGS\10025_LOG.GPJ 1/1/9/13

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SOIL BORING LOG

Page 2 of 2

Date 3/16/12

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

SECTION (0707-608&611)HB-B & 0707-608HB-B-1 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. 016-1510 & 016-1511
Station 41+24.39

BORING NO. SB-49
Station 41+98
Offset 0.00ft
Ground Surface Elev. 602.70 ft

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

Groundwater Elev.:
First Encounter 588.7 ft ▼
Upon Completion n/a ft
After ___ Hrs. ___ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Drillers Observation: Apparent bedrock.	560.20				
Borehole continued with rock coring.		-45			
		-50			
		-55			
		-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:\PROJECT\SGI\01\10025 BENESCH, IL-171 FIRST AVE (IDOT PTB 154, ITEM 14)\10025 BORING LOGS\10025_LOG.GPJ 1/1/9/13

Geo Services, Inc.
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805 Amherst Court, Suite 204
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ROCK CORE LOG

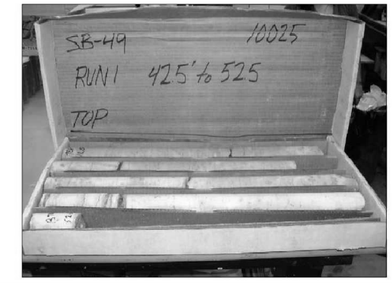
PAGE 1 of 1
DATE 3/16/2012
LOGGED BY DR
GSI JOB No. 10025

FAP 373 (IL 171)
SECTION (0707-608&611) HB-B & 0707-608HB-B-1
DESCRIPTION 1st Ave. Bridge Rehabilitation & Replacement, 47th St. to 55th St.
LOCATION SEC 11, 12, 13 & 14 T 38 N, R 12 E, 3rd PM
COUNTY Cook
CORING METHOD Rotary Wash

STRUCT. NO. 016-1510 & 016-1511
Station 41+24.39
BORING NO. SB-49
Station 41+98
Offset Baseline
Ground Surface Elev. 602.7

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 582.7
Begin Core Elev. 560.2

Description	DEPTH (ft)	CORE #	RECOVERY (%)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE RUN 1 (−42.5' to −52.5') Light gray mottled gray with horizontal bedding. Horizontal fractures @ −43.7', −44.9', −47.0' & −48.1'. Horizontal fractures with thin clay partings @ −48.2', −48.5' & −48.6'.		1	79.0	75.5	n/a	1403 @ -42.9'
	−47.5					
	−52.5					



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
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Chicago, Illinois 60601
312-565-0450 Job No. 10093

FILE NAME = 0161510_60W77_043_Soil_Boring_(SB 49).dgn	USER NAME = ksnider	DESIGNED - KMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS (6 OF 6) STRUCTURE NO. 016-1510	F.A.P. RTE. 373	SECTION (0707-608&611)HB-B	COUNTY COOK	TOTAL SHEETS 177	SHEET NO. 108
		CHECKED - JHG	REVISED -					CONTRACT NO. 60W77		
	PLOT SCALE =	DRAWN - KMS	REVISED -							
	PLOT DATE = 6/23/2014	CHECKED - JHG	REVISED -		SHEET NO. SA43 OF SA43 SHEETS			ILLINOIS FED. AID PROJECT		

6/23/2014 10:59:20 AM X:\10000S\10093\Eng_Docs_Phase_II\SN_016_1510_1511_1st_Ave_over_I55\Final\1510 Final\0161510_60W77_043_Soil_Boring_(SB 49).dgn