



SOIL BORING LOG

GSI Job No. 10025

Page 1 of 1

Date 3/27/12

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 SW 1/4, SEC. 12, TWP. T38N, RNG. R12E, 3rd PM
 COUNTY Cook DRILLING METHOD HSA/MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOISTURE (%)
016-1510 & 016-1511	41+24.39	SB-48	40+57	0.00ft	602.60					Surface Water Elev. n/a ft Stream Bed Elev. n/a ft				
										Groundwater Elev.: First Encounter 588.6 ft Upon Completion n/a ft After Hrs. ft				
						14.0'				14.0" ASPHALT, 4.0" GRAVEL & STONE				
						601.10	7			GRAVEL & FRACTURED ROCK-gray-very dense	19			
							5		12	CLAY LOAM-brown & gray-very stiff to hard (Fill)	50/4"			12
							5							
							6			579.60				
							7	4.5	15	Clayey SAND, GRAVEL & FRACTURED ROCK-gray-dense to very dense	16			10
							9	P			24			
							-5				31			
							10				50/2"			8
							19	2.5	15					
							24	P						
							4				50/3"			
							5	2.5	18					9
							7	P						
							-10							
							10			591.60				
							12		6	FRACTURED ROCK & GRAVEL-gray-medium dense				
							9							
							6							
							7		10					8
							-15			568.10				
							7			Drillers Observation: Apparent bedrock.				
							7			567.10				
							8			Borehole continued with rock coring.				
							7		6					
							8							
							10			584.60				
							7		21	Clayey SAND, GRAVEL & FRACTURED ROCK-gray-medium dense				
							9							
							-20							

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)

ROCK CORE LOG

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

PAGE 1 of 1

DATE 3/27/2012

LOGGED BY DR

GSI JOB No. 10025

ROUTE FAP 373 (IL 171) DESCRIPTION 1st Ave. Bridge Rehabilitation & Replacement, 47th St. to 55th St.
 SECTION (0707-608&611) HB-B & 0707-608HB-B-1 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 CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
 Station 41+24.39 Core Diameter 2.0 in
 BORING NO. SB-48 Top of Rock Elev. 588.1
 Station 40+57 Begin Core Elev. 587.1
 Offset Bagelina
 Ground Surface Elev. 602.6

DEPTH (ft)	RECORDED (%)	QUANTITY (%)	CORRECTION (mIn)	STRENGTH (tsf)
1	90.5	57.5	n/a	114
-40.5				
-45.5				

SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE
 RUN 1 (-35.5' to -45.5')
 Light gray mottled gray, slightly porous with horizontal bedding. Horizontal fractures @ -35.6' & -35.8'. Vertical fracture from -36.0' to -36.9'. Horizontal fracture @ -37.5'. Transverse fracture with 1/2" clay parting from -38.1' to -38.4'. Horizontal fractures @ -39.3', -40.2' & -40.4'. Weathered vertical fracture from -41.5' to -42.4'.

SB-48 10025
 RUN 1 -35.5' to -45.5'
 TOP

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)



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

FILE NAME = 0161510.60W77.042.Soil.Boring.ISB 481.dgn	USER NAME = ksnyder	DESIGNED - KMS	REVISED -
		CHECKED - JHG	REVISED -
		DRAWN - KMS	REVISED -
		CHECKED - JHG	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS (5 OF 6)
 STRUCTURE NO. 016-1510**

SHEET NO. SA42 OF SA43 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	107
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	