



# SOIL BORING LOG

GSI Job No. 10025  
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. Station	DEPT H	BLOW S	UCS Qu	MOIST	Surface Water Elev. n/a ft	Stream Bed Elev. n/a ft	Groundwater Elev.:	DEPT H	BLOW S	UCS Qu	MOIST
9.0" CONCRETE BRIDGE DECK VOID	623.65						CLAY LOAM-brown & gray-medium stiff to hard (Fill) (continued)				
								8			
								10	8.0		17
								11	S		
								9			
								10	7.4		26
								12	B		
								2			
								2	0.5		20
								3	B		
								4			
								5	2.1		8
								7	B		
								10			
								24			7
								16			
								4			
								3	4.5		18
								5	P		
								5			12
								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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COUNTY Cook DRILLING METHOD MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. Station	DEPT H	BLOW S	UCS Qu	MOIST	Surface Water Elev. n/a ft	Stream Bed Elev. n/a ft	Groundwater Elev.:	DEPT H	BLOW S	UCS Qu	MOIST
GRAVEL & STONE-gray-medium dense to dense (Apparent Fill) (continued)	582.40						SILT-gray-dense to very dense (continued)				
								13			
								16	2.3		23
								25	B		
								17			
								22	2.8		24
								27	B		
								11			
								13			19
								19			
								22			
								43			
								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)

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

## ROCK CORE LOG

PAGE 1 of 1  
DATE 1/9/2013  
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-11 Top of Rock Elev. 553.9  
Station 34+27 Begin Core Elev. 554.9  
Offset 48.3' Left  
Ground Surface Elev. 624.4

DEPTH (ft)	CORRECTION (%)	RECOVERY (%)	ROCK Q (ksi)	CORRECTED Q (ksi)	STRENGTH (tsf)
1					
74.5					
79.5					

RUN 1 (-69.5' to -78.5')  
(-69.5' to -70.5') Cobbles & boulders.  
(-70.5' to -78.5') SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE  
Light gray mottled gray with horizontal bedding. Horizontal fractures @ -70.9' & -71.4'.  
Vertical fracture from -71.4' to -72.8'. Horizontal fractures @ -73.0' & -73.4'. Vertical fracture from -73.5' to -74.0'. Horizontal fractures @ -75.0', -75.3', -76.1', -76.3', -76.8' & -77.0'.

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 =	USER NAME = jsurber	DESIGNED - FSM	REVISED -
		CHECKED - RMM	REVISED -
		DRAWN - FSM	REVISED -
		CHECKED - RMM	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS PIER 8  
STRUCTURE NO. 016-0486

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	2013-038B-R	COOK	821	687
CONTRACT NO.			60J16	

SHEET NO. SG97 OF SG100 SHEETS

ILLINOIS FED. AID PROJECT