



**SOIL BORING LOG**

GSJ Job No. 10025  
Page 1 of 2  
Date 3/14/12

ROUTE FAP 373 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY NW  
SECTION (0707-608&611)HB-B LOCATION SE 1/4, SEC. 11, TWP. T38N, RNG. R12E, 3<sup>rd</sup> PM  
COUNTY Cook DRILLING METHOD HSA/MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. 016-1512 Station 215+55.44	BORING NO. SB-60 Station 215+55 Offset 10.10ft Left Ground Surface Elev. 606.60 ft	DEPTHS			MOISTURE			UNSATURATED WATER CONTENT		
		(ft)	(6")	(tsf)	(%)	(%)	(%)	(%)	(%)	
18.0" ASPHALT, 30.0" CRUSHED STONE	Surface Water Elev. n/a ft	0	0							
	Stream Bed Elev. n/a ft	0	0							
	Groundwater Elev.: First Encounter 591.6 ft Upon Completion n/a ft After Hrs. n/a	0	0							
		0	0							
	CRUSHED STONE-medium dense to dense (Fill) (continued)	8				13			13	
		13		4		11				
		16				9				
		583.60								
	SILTY CLAY LOAM-gray-medium dense	9							9	
		17		18		28			11	
		25				28				
		581.10				50/5"			8	
	Clayey SAND, GRAVEL & FRACTURED ROCK-gray-very dense	2		0.6	18					
	3		B							
CLAY LOAM-dark brown & gray-medium stiff to very stiff (Fill)	3				50/4"			12		
	3		1.5	25						
	4		P							
		10								
		3								
		5		3.8	15					
		7		B						
	593.60									
	CRUSHED STONE-medium dense to dense (Fill)	15				50/5"			9	
		17		4						
		15								
		4								
		5		9						
	6									
569.60										
SILTY LOAM-gray-very dense	9				30					
	11		3					15		
	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)



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ROUTE FAP 373 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY NW  
SECTION (0707-608&611)HB-B LOCATION SE 1/4, SEC. 11, TWP. T38N, RNG. R12E, 3<sup>rd</sup> PM  
COUNTY Cook DRILLING METHOD HSA/MUD ROTARY HAMMER TYPE CME Automatic


STRUCT. NO. 016-1512 Station 215+55.44	BORING NO. SB-60 Station 215+55 Offset 10.10ft Left Ground Surface Elev. 606.60 ft	DEPTHS			MOISTURE			UNSATURATED WATER CONTENT		
		(ft)	(6")	(tsf)	(%)	(%)	(%)	(%)	(%)	
SILTY LOAM-gray-very dense (continued)	Surface Water Elev. n/a ft	0	0							
	Stream Bed Elev. n/a ft	0	0							
	Groundwater Elev.: First Encounter 591.6 ft Upon Completion n/a ft After Hrs. n/a	0	0							
		0	0							
	564.60									
	Clayey SAND, GRAVEL & FRACTURED ROCK-gray-very dense	9							9	
		17		11						
		28								
		581.10								
	Clayey SAND, GRAVEL & FRACTURED ROCK-gray-very dense	2		0.6	18					
		3		B						
	559.10									
	Borehole continued with rock coring.	3				50/4"			12	
	4		1.5	25						
	10		P							

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)

Geo Services, Inc. ROCK CORE LOG  
PAGE 1 of 1  
DATE 3/14/2012  
LOGGED BY DR  
GSJ JOB No. 10025  
FAP Rte. 171 (1st Avenue) DESCRIPTION 1st Ave. Bridge Rehabilitation & Replacement, 47th St. to 55th St.  
SECTION LOCATION SEC 11, 12, 13 & 14 T 38 N, R 12 E, 3rd PM  
COUNTY Cook CORING METHOD Rotary Wash  
STRUCT. NO. RAMP E CORING BARREL TYPE & SIZE NX Double Swivel-10 ft  
Station Core Diameter 2.0 in  
BORING NO. SB-60 Top of Rock Elev. 558.5  
Station 215+55 Begin Core Elev. 558.5  
Offset 10.1' Left  
Ground Surface Elev. 606.6  
DEPTHS (ft) CORE (#) RECOVERY (%) R. Q. D. (min) CORE LENGTH (ft) SPT (tsf)

1	100.0	74.5	n/a	324	-51.8"
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SILURIAN SYSTEM, NIAGARA SERIES DOLOMITE  
RUN 1 (-47.5' to -57.5')  
Light gray mottled gray with horizontal bedding. Slightly weather at surface. Vertical fracture with intersecting horizontal fractures from -47.5' to -49.8'. Horizontal fractures @ -50.1', -51.1', -51.8' & -52.3'. Horizontal fractures with thin clay partings @ -53.0', -55.0', -55.6' & -57.1'.  
-52.5'  
-57.5'



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)



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

FILE NAME =	USER NAME = ksnyder	DESIGNED - KMS	REVISED -
0161512.60W77.042.Soil.Boring.ISB 60.dgn	PLOT SCALE =	CHECKED - JHG	REVISED -
	PLOT DATE = 6/23/2014	DRAWN - KMS	REVISED -
		CHECKED - JHG	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (3 OF 4)  
STRUCTURE NO. 016-1512  
SHEET NO. SB42 OF SB43 SHEETS

F.A.P. RTE. 373	SECTION (0707-608&611)HB-B	COUNTY COOK	TOTAL SHEETS 177	SHEET NO. 158
			CONTRACT NO. 60W77	
			ILLINOIS FED. AID PROJECT	