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

SOIL BORING LOG

GSI Job No. 10025
Page 1 of 2
Date 1/28/13

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 HSA/MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. 016-0486
Station 30+72.59

BORING NO. SB-01
Station 27+47
Offset 19.90ft Left
Ground Surface Elev. 626.90 ft

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

Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After ___ Hrs. ___ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
17.0" CONCRETE					
	625.44		8		
CLAY LOAM-dark brown & gray-stiff to very stiff (Fill)			5	2.8	15
			5	B	
			5		
			4	1.3	25
		-5	4	P	
			1		
			2	1.4	18
			4	B	
			8		
			11	1.3	17
		-10	12	B	
	616.40				
SILTY CLAY LOAM-dark brown & gray-medium dense (Fill)			4		
			5		17
			8		
	613.90				
CLAY LOAM-brown & gray-stiff to very stiff (Fill)			4		
			8	1.0	16
		-15	8	P	
			4		
			4		25
			5		
			8		
			6		21
		-20	8		
CLAY LOAM-brown & gray-stiff to very stiff (Fill) *(continued)*					
			4		
			7	1.7	21
			10	B	
			3		
			3	3.3	19
		-25	10	P	
			4		
			6	2.2	22
			7	B	
			5		
			10	3.5	17
		-30	13	P	
			4		
			5	2.3	18
		-35	8	B	
			7	2.1	24
		-40	11	B	

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

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Page 2 of 2
Date 1/28/13

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 HSA/MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. 016-0486
Station 30+72.59

BORING NO. SB-01
Station 27+47
Offset 19.90ft Left
Ground Surface Elev. 626.90 ft

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

Groundwater Elev.:
First Encounter Dry to 10.0' ft
Upon Completion n/a ft
After ___ Hrs. ___ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-brown & gray-stiff to very stiff (Fill) *(continued)*					
			10		
			16	3.3	28
		-45	30	P	
	579.90				
CLAY LOAM-gray-hard					
			19		
			25	6.4	11
		-50	29	B	
			19		
			17	5.5	13
		-55	19	B	
			10		
			16	5.8	15
		-60	26	B	
CLAY LOAM-gray-hard *(continued)*					
			9		
			13	5.7	16
		-65	17	B	
	559.90				
CLAY-gray-very stiff					
			5		
			8	2.9	25
		-70	10	B	
	554.90				
SILT-gray-medium dense					
			11		
			11		21
		-75	16		
	548.40				
Drillers Observation: Apparent bedrock.			50/0"		
	547.40				
Borehole continued with rock coring.					
		-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 1/28/2013
LOGGED BY DR
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-01 Top of Rock Elev. 548.4
Station 27+47 Begin Core Elev. 547.4
Offset 19.9' Left
Ground Surface Elev. 626.9

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE RUN 1 (−79.5' to −89.5') Light gray mottled gray with horizontal bedding. Vertical fracture from −80.1' to −82.0'. Horizontal fractures @ −82.4', −83.0', −84.0', −85.2', −85.4', −86.7', −88.4', −88.8' & −88.9'.			1	99.9	70.1	n/a	332 @ −82.5'
		−84.5					
		−89.5					

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
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 -
0160486_60J16_094_Soil Boring Logs 1.dgn	PLOT SCALE =	DRAWN - FSM	REVISED -
	PLOT DATE = 8/6/2014	CHECKED - RMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS SOUTH ABUTMENT
STRUCTURE NO. 016-0486
SHEET NO. SG94 OF SG100 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	2013-038B-R	COOK	821	684
		CONTRACT NO. 60J16		
		ILLINOIS FED. AID PROJECT		

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