

ROCK CORE LOG

PAGE 1 of 1

Geo Services, Inc. Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(815) 353-2888

DATE 1/31/2013
LOGGED BY DR
GSI JOB No. 10025

FAP Rte. 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

STRUC. NO. 016-0488 CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station 22+90.24 Core Diameter 2.0 in
BORING NO. SB-62 Top of Rock Elev. 541.6
Station 21+78 Begin Core Elev. 545.4
Offset 60.7' Left
Ground Surface Elev. 626.4

DEPTH (ft)	CORRECTION (#)	RECOVERY (%)	R.Q.D. (%)	CORRECTION (min/ft)	STRENGTH (tsf)
1					n/c
84.5					
2	96.7	81.1	n/a	113.4	84.5
86.5					
88.5					
93.5					

RUN 1 (-81.0' to -84.5') Cobbles & boulders.

SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE
RUN 2 (-84.5' to -93.5')
Light gray mottled gray & fine grained dolomite bedrock with horizontal bedding.
Horizontal fractures @ -85.0', -85.3', -86.0', -86.2', -86.5', -87.0', -87.5', -88.2', -88.5', -89.2', -90.6', -91.5' & -92.1'.

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)

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Page 1 of 3
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ROUTE FAP 373 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY JZ

SECTION 2013-038B-R LOCATION NW 1/4, SEC. 13, TWP. T38N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD MUD ROTARY HAMMER TYPE CME Automatic

STRUC. NO. 016-0488
Station 22+90.24

BORING NO. SB-63
Station 22+57
Offset 58.90ft Left
Ground Surface Elev. 627.10 ft

DEPTH (ft)	DIAMETER (in)	SOIL TYPE	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	UNIFORMITY COEFFICIENT	COEFFICIENT OF CURVATURE	STRENGTH (tsf)	SPT (blows)
0		CLAY to CLAY LOAM-brown & gray-stiff to very stiff (Fill)							
5	1.0	SILTY CLAY LOAM-gray-medium dense (Apparent Fill)							21
6	1.5								18
4	1.1								20
5	2.1								18
6	2.5								20
8	2.0								25
9	3.2								23
11									20
12									20

9.0" CONCRETE BRIDGE DECK 628.35

VOID 628.35

10.0" CONCRETE SLOPE WALL 617.60

CLAY to CLAY LOAM-brown & gray-stiff to very stiff (Fill) 616.77

590.10

SILTY CLAY LOAM-gray-medium dense (Apparent Fill)

570.10

SANDY CLAY LOAM-gray-very dense

50/5"

11

50/1"

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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5	1.0	SANDY CLAY LOAM-gray-very dense (continued)							
6	1.5	CLAY-gray-hard							
3									
5	2.2								20
6	2.3								19
11		CLAYEY SAND, GRAVEL & FRACTURED ROCK							19
18	6.4								14
28									14
23									23
29	3.2								23
44									10
50									10
50/5"									11
60									11

CLAY to CLAY LOAM-gray-very stiff to hard 580.10

559.10

570.10

SANDY CLAY LOAM-gray-very dense

50/5"

11

50/1"

80

Drillers Note: 100.0% water loss from -73.0' to -84.0'

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BBS, from 137 (Rev. 8-99)

FILE NAME =	USER NAME = tjenicke	DESIGNED - CMK	REVISED -
		CHECKED - JAW	REVISED -
016-0488-60J16-032-Soil Boring Logs 2 of 6	SCALE =	DRAWN - CMK	REVISED -
	PLOT DATE = 12/20/2013	CHECKED - JAW	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	2013-038B-R	COOK	821	770
CONTRACT NO. 60J16				
ILLINOIS FED. AID PROJECT				