

Geo Services, Inc. **ROCK CORE LOG** PAGE 1 of 1
 Geotechnical, Environmental & Civil Engineering
 805 Amberst Court, Suite 204
 Naperville, Illinois 60563
 (630) 355-2838

DATE 5/20-21/2010
 LOGGED BY DR
 GSI JOB No. 10024

ROUTE FAP 0307 DESCRIPTION Il. 64 Bridge Over Des Plaines River, IDOT Job No. D-91-183-10IL-64
 SECTION 541-Y-3 LOCATION Riverside Township SEC. 1, TWP. 39 N, RNG. 12 E, 3rd P.M.
 COUNTY Cook CORING METHOD Rotary Wash

STRUCT. NO. 016-0501 CORING BARREL TYPE & SIZE NX Double Swivel-5 ft
 Station 120+43.0 Core Diameter 2.0 in
 BORING NO. B-05 Top of Rock Elev. 566.3
 Station: 99+13 Begin Core Elev. 565.8
 Offset: 43.1 Right
 Ground Surface Elev. 624.8

DEPTH (ft)	RECOVERY (%)	R.Q.D. (%)	CORRECTION (min)	STRENGTH (tsf)
0	1	98.5	73.0	n/a
565.8				8360
Silurian System, Niagaran Series Dolomite RUN 1 (-59.0' to -69.0')				
Light gray to gray with horizontal to wavy bedding. Porous & weathered with numerous horizontal fractures throughout & some thin clay partings.				
-64				
-69				

Color pictures of the cores XX. Cores will be stored for examination for XX
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

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 SECTION 541-Y-3 LOCATION Riverside Township SEC. 1, TWP. 39 N, RNG. 12 E, 3rd P.M.
 COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 016-0501 Surface Water Elev. n/a
 Station 120+43.0 Stream Bed Elev. n/a
 BORING NO. B-06 Groundwater Elevation:
 Station: 99+73 First Encounter 619.1
 Offset: 54.6' Left Upon Completion n/a
 Ground Surface Elev. 625.1 After _____ Hrs. _____

DEPTH (ft)	UCS (tsf)	MOIST (%)	UCS (tsf)	MOIST (%)
0				
623.9				102
5.0" ASPHALT, 9.0" CONCRETE				
6			4	
622.1	6 NP 8		8	3.0B 24
CRUSHED CONCRETE & STONE-medium dense (FIII)				
3		111	5	111
4			7	
619.1	7 1.8B 19		11	4.0B 19
SILTY CLAY-brown & gray-stiff (A-6)				
9			4	108
617.1	8 NP 10		4	
SAND & GRAVEL-brown-medium dense (A-1)				
3		118	4	
6			5	
615.1	8 4.4B 18		11	3.75P 23
CLAY-gray-very stiff to hard (A-6)				
5		120		
613.1	10 4.1B 15		5	111
SILTY CLAY LOAM-gray-medium dense (A-4)				
3		111	6	
611.1	8 2.8B 19		12	3.3B 19
CLAY-gray-very stiff to hard (A-6)				
4		118		
609.1	7 5.0B 16		11	110
CLAY-gray-very stiff to hard (A-6)				
4		118		
607.1	5		12	
605.1	7 2.5B 15		11	110
CLAY-gray-very stiff to hard (A-6)				
20			8	4.4B 20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-S Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (X)
 NR-No Recovery

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 Station 120+43.0 Stream Bed Elev. n/a
 BORING NO. B-06 Groundwater Elevation:
 Station: 99+73 First Encounter 619.1
 Offset: 54.6' Left Upon Completion n/a
 Ground Surface Elev. 625.1 After _____ Hrs. _____

DEPTH (ft)	UCS (tsf)	MOIST (%)	UCS (tsf)	MOIST (%)
0				
583.1				
SILTY CLAY LOAM-gray-medium dense (A-4)				
13		119		
581.1	17		19	7.4B 13
CLAY LOAM-gray-hard (A-6)				
45				
578.1				
26				
556.6	31		14	
SILTY LOAM-gray-very dense (A-4)				
50	42 NP			
579.1				
13		130		
577.1	18		19	4.7B 11
CLAY LOAM-gray-hard (A-6)				
567.1				
Drillers Observation: Apparent bedrock. 566.6				
60				
Silurian System, Niagaran Series Dolomite RUN 1 (-58.5' to -68.5')				
60				

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 NR-No Recovery

FILE NAME = W:\191-130-1001-1164\CAD\CADD_Sheets\structure\1164\11-49-10\SoilBoringLogs_V.dgn



USER NAME =	DESIGNED - JMT	REVISED
PLOT SCALE =	CHECKED - JJI	REVISED
PLOT DATE = 8/15/2013	DRAWN - GM	REVISED
	CHECKED - JJI	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS V
 STRUCTURE NO. 016-3035
 SHEET NO. 60 OF 62 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	541Y-3-B	COOK	143	121
CONTRACT NO. 60J11				
ILLINOIS FED. AID PROJECT				