

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60563
(630) 355-2838

ROCK CORE LOG

PAGE 1 of 1
DATE 5/28/2010
LOGGED BY DR
GSI JOB No. 10024

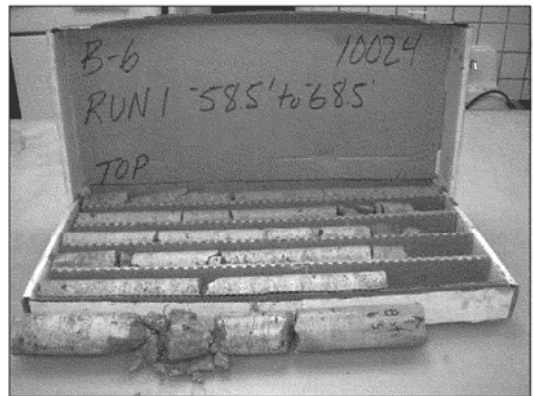
ROUTE FAP 0307 DESCRIPTION IL 64 Bridge Over Des Plaines River, IDOT Job No. D-91-183-10IL-64
SECTION 541-Y-3 LOCATION Riverside Township SEC. 1, TWP. 39 N, RNG. 12 E, 3rd P.M.
COUNTY Cook CORING METHOD Rotary Wash

STRUCT. NO. 016-0501 CORING BARREL TYPE & SIZE NX Double Swivel-5 ft
Station 120+43.0 Core Diameter 2.0 in
Top of Rock Elev. 567.1
BORING NO. B-06 Begin Core Elev. 566.6
Station: 99+73
Offset: 54.6' Left
Ground Surface Elev. 625.1

DEPTH (ft)	CORING RECOVERY (%)	R.Q.D. (%)	CORING TIME (min)	STRENGTH (tsf)
566.6	100.0	65.5	n/a	6420 59.4'

Silurian System, Niagaran Series Dolomite
RUN 1 (-58.5' to -68.5')

Light gray to gray with horizontal to wavy bedding. Porous & weathered with numerous horizontal fractures throughout & some thin clay partings.



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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SOIL BORING LOG

PAGE 1 of 1
DATE 5/25/2010
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 DRILLING METHOD Hollow Stem Auger/Rotary, HAMMER TYPE CME Automatic

STRUCT. NO. 016-0501
Station 120+43.0
BORING NO. B-07
Station: 99+69
Offset: 55.9' Right
Ground Surface Elev. 624.4

DEPTH (ft)	BLU (tsf)	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLU (tsf)	UCS (tsf)	MOIST (%)
623.2	4			5.0" ASPHALT, 10.0" ASPHALT				
601.4	3		111	CLAY-gray-stiff to very stiff (A-6)				
618.4	2	18		SANDY LOAM-brown-loose (A-2) Apparent Fill				
611.4	3		112	CLAY-gray-very stiff (A-6)				
608.9	5	19	107	SILTY CLAY LOAM-gray-medium dense (A-4/A-6)				
605.7	4	18	113	CLAY-gray-stiff to very stiff (A-6)				

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 618.4
Upon Completion n/a
After Hrs. n/a

Auger Refusal @ -23.0'
Boring Offset 3 Times With Refusal @ -23.0' Each Attempt
End Of Boring
Hollow Stem Augers To -10.0'
Rotary Drilling To Completion
10.0' 4.0" Casing Used
CME Automatic Hammer

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-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

SMC SOIL AND MATERIAL CONSULTANTS, INC.
8 West College Drive Arlington Heights, Illinois
Off: (708) 870-0544 Fax: (708) 870-0661

ILLINOIS DEPARTMENT OF TRANSPORTATION BORING LOG 601

Location IL 64/Des Plaines River Sheet 1 of 3
Station 120+64 CL Offset 35' N. Date 10/26/94
Route F.A. 136 Project Bridge No. 016-0501 Drilled By MH, DB
Section County Cook Sect. 36 Range 12E Twp. 40N Logged By DA
625.17 CME 45B H.A. Other SMC File No. 13108

Elev., ft.	Description	Depth, ft.	0	S	T	R	B	N	Pen.	W	Uw	Qu	Str
45.8	Bituminous concrete - 4.5"												
	Concrete - 7.5"												
	Air												
		28.8											
	Water												
26.3	Gray-black silt, some sand & gravel saturated-very damp	608.2											
		605.7											

Water Level - depth, ft. elev., ft.
- while drilling: _____
- after drilling: _____
- hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
B - Standard Penetration Test (SPT), blows/6" interval. W - water content, %
N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
Pen. - pocket penetrometer reading, tons/ sq. ft. Uw - dry unit weight of soil, lbs./ cu.ft.
Qu - unconfined compressive strength, tons/ sq. ft. Str. - % strain at Qu

FILE NAME = W:\191-130-1001-IL64\CADD_Sheets\Structure\1160J11-ht-50_SoilBoringLog_VI.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 VI
STRUCTURE NO. 016-3035
SHEET NO. 61 OF 62 SHEETS

F.A.P. RTE. 307	SECTION 541Y-3-B	COUNTY COOK	TOTAL SHEETS 143	SHEET NO. 122
CONTRACT NO. 60J11				
ILLINOIS FED. AID PROJECT				