

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	213
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 77  
86 SHEETS

Contract #72A76



Illinois Department of Transportation  
Division of Highways  
District 8

ROCK CORE LOG

Page 3 of 4

Date 11-20-07  
08-20-08

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason CORING METHOD Super Gel X / Super Pac Drilling Fluid

STRUCT. NO. 009-0510 Pr  
009-0005 Ex  
Station 913+16  
CORING BARREL TYPE & SIZE NQ2WL  
Core Diameter 1.9 in  
BORING NO. 0510-P3 Pier 3  
Station 908+66  
Offset 0.0ft  
Ground Surface Elev. 451.9 ft  
Top of Rock Elev. 378.90 ft  
Begin Core Elev. 378.90 ft

ROCK CORE DATA OBTAINED 9/20/08	DEPTH (ft)	COEFFICIENT OF VARIATION (%)	ROCK QUALITY INDEX (%)	CORE DIAMETER (in)	STRENGTH (ksi)
Grey Very Well Indurated Cherty LIMESTONE. Very Fractured with Open Irregularly Shape Spherical Voids	378.90	1	94	48	1639
Open Joints Filled with Grey Weathered Clayey Limestone Residuum	-75				846
(Broken Limestone Plugged Core Barrel - Pulled and Cleaned Barrel)	-85		96	67	533
Grey Very Well Indurated Crystalline LIMESTONE with Micritic limestone clasts	382.90		96	85	879
Grey Very Well Indurated Crystalline LIMESTONE Closed Joints Spaced 1 to 3 ft	381.90	-85			1183
					1346

Color pictures of the cores Yes, On File  
Cores will be stored for examination until 5 Years after Construction  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
RQD is the ratio of the total length of sound core specimens >4" to total length of core run

BBS, form 138 (Rev. 8-98)



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Top of Rock Elev. 378.90 ft  
Begin Core Elev. 378.90 ft

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Grey Very Well Indurated Crystalline LIMESTONE Closed Joints Spaced 1 to 3 ft (continued)	367.90				
Boring Competed	-85				
	-90				
	-95				
	-100				
	-105				
	-110				

Color pictures of the cores Yes, On File  
Cores will be stored for examination until 5 Years after Construction  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
RQD is the ratio of the total length of sound core specimens >4" to total length of core run

BBS, form 138 (Rev. 8-98)

BORINGS (SHEET 5)  
F.A.P. 614 (IL 78) OVER SANGAMON RIVER  
PUBLIC WATERS  
CASS & MASON COUNTIES  
SECTION 144 (B-1)  
STA. 913+26.00  
STRUCTURE NUMBER 009-0510  
PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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JOB NO. 07S2026

DATE 03/27/09

LAYOUT: TEH 09/12/08  
 DRAWN: BUC 09/10/08  
 REVIEWED: TEH 09/30/08  
 Mar-31-2008 08:04:40 AM  
 C:\mwork\p1007\LAUGH\WRL\034498\009-0510 Master Sheet 7/14/09