

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 7/10/08

ROUTE FAP 752 (IL 165) DESCRIPTION Camp Creek LOGGED BY E. Sandschafer

SECTION (U-2BR1)B-1 LOCATION E 1/2, SEC. 15, TWP. 9 N, RNG. 1 E, 3 PM

COUNTY Fayette DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. <u>026-0059</u>	D E P T H S P E E D F E E T P E R C E N T	B L O W S H S Q u	U C S T	M O I S T C O N T E N T	Surface Water Elev. <u>462.47</u> ft
Station <u>51+53</u>					Stream Bed Elev. <u>461.43</u> ft
BORING NO. <u>2008 - 1</u>					Groundwater Elev.:
Station <u>54+08</u>					First Encounter <u>460.8</u> ft
Offset <u>9.00R Lt</u>					Upon Completion <u>465.3</u> ft
Ground Surface Elev. <u>477.84</u> ft	(ft)	(#)	(tsf)	(%)	After <u>48</u> Hrs. <u>466.4</u> ft

Very stiff, damp, gray, SANDY LOAM TILL (continued)

392.84 -85

Very dense, moist, gray, CLAY SHALE

387.54 -90

Borehole continued with rock coring.

-100

18	2.3	16
37	S	
48	50/2'	7
50/2'		

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

Date 7/10/08

ROUTE FAP 752 (IL 165) DESCRIPTION Camp Creek LOGGED BY E. Sandschafer

SECTION (U-2BR1)B-1 LOCATION E 1/2, SEC. 15, TWP. 9 N, RNG. 1 E, 3 PM

COUNTY Fayette CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. <u>026-0059</u>	D E P T H S P E E D F E E T P E R C E N T	R E C O V E R Y	R Q D E	C O R E T I M E	S T R E N G T H
Station <u>51+53</u>					

CORING BARREL TYPE & SIZE NW conv dbl bbl

Core Diameter 2.06 in
Top of Rock Elev. 362.84 ft
Begin Core Elev. 367.54 ft

Gray, moderately weathered, CLAY SHALE

387.54

Rock Core B1C1 at depth 90.9' to 91.8' Qu = 16.2 tsf.

-85

Gray, severely weathered, CLAY SHALE

381.54

Gray, moderately weathered, CLAY SHALE

381.04

Rock Core B1C2 at depth 97.4' to 98.0' Qu = 55.3 tsf.

-100

Extent of exploration:

-110

79	79	1.5
63	63	1.3

Benchmark: BM 172 chiseled square on NW wingwall of existing bridge, Sta 49+85, 16.6 Lt = 477.46 elevation.

Color pictures of the cores Available on request
Cores will be stored for examination until 07/10/09
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

BORING LOGS
STRUCTURE NO. 026-0105

SHEET NO. 32	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	752	(U-2BR)B-1	FAYETTE	71	54
38 SHEETS	CONTRACT NO. 74235		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		
 OATES ASSOCIATES Consulting Engineers			Eastport Business Center 1 100 Lanter Court, Suite 1 Collinsville, Illinois 62234 618-345-2200 Design Firm License No. 184.001115		
			DESIGNED -		
			CHECKED -		
			DRAWN -		
			CHECKED -		