



### SOIL BORING LOG

Page 1 of 3

Date 9/19/05

ROUTE FAS 662 (TR 61) DESCRIPTION TR 61 Extension - Embarras River Bridge LOGGED BY E. Sandschafer

SECTION 01-00061-00-BR LOCATION E 1/2, SEC. 12, TWP. 10 N, RNG. 9 E, 3 PM

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

STRUCT. NO. Station	D E P T H	B L O C K	U C S	M O I S T U R E	Surface Water Elev. Stream Bed Elev.	D E P T H	B L O C K	U C S	M O I S T U R E	Groundwater Elev.: First Encounter Upon Completion After 24 Hrs.	(ft)	(/6")	(tsf)	(%)
018-3191 469+00					531.67 529.00					533.5 533.6				
Gravel. 542.19														
Very stiff, very moist, brown, SANDY CLAY. Samples pokerchipped.														
538.49														
Medium to stiff, very moist, brown, SANDY LOAM.														
535.99														
Very stiff, damp, brown, CLAY w/ some Sand.														
533.49														
Very loose, wet, brown, fine grained, SAND. 18% passing #200 sieve.														
9% passing #200 sieve.														
12% passing #200 sieve.														
524.89														
8% passing #200 sieve. Brown marbled gray, CLAY TILL w/ one 1.5" rock fragment.														
523.49														

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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STRUCT. NO. Station	D E P T H	B L O C K	U C S	M O I S T U R E	Surface Water Elev. Stream Bed Elev.	D E P T H	B L O C K	U C S	M O I S T U R E	Groundwater Elev.: First Encounter Upon Completion After 24 Hrs.	(ft)	(/6")	(tsf)	(%)
018-3191 469+00					531.67 529.00					533.5 533.6				
Very stiff, damp, gray, CLAY TILL (continued)														
Very stiff, damp, gray, CLAY TILL.														
Very stiff, damp, gray, CLAY TILL (continued)														
Very dense, moist, gray, CLAY SHALE w/ Sand.														
Borehole continued with rock coring.														

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)



### ROCK CORE LOG

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Date 9/19/05

ROUTE FAS 662 (TR 61) DESCRIPTION TR 61 Extension - Embarras River Bridge LOGGED BY E. Sandschafer

SECTION 01-00061-00-BR LOCATION E 1/2, SEC. 12, TWP. 10 N, RNG. 9 E, 3 PM

COUNTY Cumberland CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. Station	CORING BARREL TYPE & SIZE	D E P T H	C O R E	R E C O R D	C O R E	S T R E N G T H
018-3191 469+00	NW, conv dbl bbl, split inner					
Gray, slightly weathered, easily scratched, CLAY SHALE.						
Sandstone fragments.						
Gray, SANDY CLAY SHALE.						
Gray, LIMESTONE.						
Gray, SANDY CLAY SHALE.						
Extent of exploration.						
Benchmark: Iron pin Sta 480+92.08, Lt 1.36' = 545.90' Provided by Cumberland County Engineer.						

Color pictures of the cores None  
Cores will be stored for examination until None  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
BBS, form 138 (Rev. 8-99)

04/01/2008 03:06 PM  
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LAYOUT	MM	11/30/01
DRAWN	DAP	12/28/01
REVIEWED	JMM	02/04/08

**BORINGS (SHEET 1)**  
F.A.S. 662 (TR 61) OVER EMBARRAS RIVER  
CUMBERLAND COUNTY  
SECTION 01-00061-00-BR  
STA. 470+75.00  
STRUCTURE NUMBER 018-3191  
PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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JOB NO.  
01S2021B

DATE  
02/04/08