

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG Page 1 of 3
Date 9/28/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandschafer

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

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

STRUCT. NO. 025-00090010 Station 2003+70

BORING NO. 4 Station 2004+44 Offset 74.00ft Ground Surface Elev. 509.79 ft

DEPTH (ft)	SOIL DESCRIPTION	DR	BL	US	MS	DEPTH (ft)	DR	BL	US	MS
18	Surface Water Elev. 499.46 ft					18				
22	Stream Bed Elev. 496.46 ft					22				
487.79	Groundwater Elev. First Encounter 492.8 ft					487.79				
487.79	Upon Completion 504.3 ft					487.79				
487.79	After 48 Hrs. 500.8 ft					487.79				
505.29	Riprap and Sandy Loam.					505.29				
505.29	Dense, wet, gray, SAND w/ Gravel, 6% passing #200 sieve. (continued)					505.29				
487.79	Shift to very stiff, damp, gray, SILTY CLAY TILL.					487.79				
485.29	Shift, damp, gray, CLAY TILL.					485.29				
499.89	Medium to loose, very moist, brown, fluffy, SAND, 2% passing #200 sieve.					499.89				
499.19	5% passing #200 sieve.					499.19				
497.79	Gray, SILTY LOAM.					497.79				
497.79	Brown, SAND.					497.79				
495.29	Very soft, damp, gray, SILTY LOAM.					495.29				
492.79	Very soft, very damp, gray, SANDY LOAM.					492.79				
490.29	Very loose, wet, brown, fine grained, SAND, 2% passing #200 sieve.					490.29				

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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SOIL BORING LOG Page 2 of 3
Date 9/28/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandschafer

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

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

STRUCT. NO. 025-00090010 Station 2003+70

BORING NO. 4 Station 2004+44 Offset 74.00ft Ground Surface Elev. 509.79 ft

DEPTH (ft)	SOIL DESCRIPTION	DR	BL	US	MS	DEPTH (ft)	DR	BL	US	MS
18	Surface Water Elev. 499.46 ft					18				
22	Stream Bed Elev. 496.46 ft					22				
487.79	Groundwater Elev. First Encounter 492.8 ft					487.79				
487.79	Upon Completion 504.3 ft					487.79				
487.79	After 48 Hrs. 500.8 ft					487.79				
485.29	Medium, damp, brown, SILTY LOAM, highly organic and many wood chunks. (continued)					485.29				
485.29	Shift, damp, gray, SILTY CLAY TILL.					485.29				
440.29	Stiff, damp, gray, CLAY LOAM TILL.					440.29				
439.79	Very dense, moist, gray, SANDY CLAY SHALE.					439.79				
439.79	Borehole continued with rock coring.					439.79				
450.29	Very soft, wet, gray, SANDY LOAM w/Gravel. (continued)					450.29				

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 Page 3 of 3
Date 9/28/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandschafer

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

COUNTY Effingham CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 025-00090010 Station 2003+70

BORING NO. 4 Station 2004+44 Offset 74.00ft Ground Surface Elev. 509.79 ft

DEPTH (ft)	ROCK DESCRIPTION	DR	BL	US	MS	DEPTH (ft)	DR	BL	US	MS
439.79	Gray, slightly weathered, SANDSTONE, scratches easily.					439.79				
438.29	Gray, slightly weathered, SANDY CLAY SHALE.					438.29				
435.29	Rock core B4C1 from 72.0' to 72.5' depth = 99.3 tsf Qu.					435.29				
434.79	No Recovery.					434.79				
434.79	Gray, slightly weathered, SANDY CLAY SHALE.					434.79				
429.79	Rock core B4C2 from 78.0' to 78.5' depth = 26.4 tsf Qu.					429.79				
429.79	Extent of exploration.					429.79				

Benchmark: BM 551 Chiseled Square on top of slope wall in median, on East side of Little Wabash River, Station 2005+75 LL 25.7' = 521.55' elevation. Provided by Program Development.

Color pictures of the cores Available on request
Cores will be stored for examination until 9/28/08
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS form 138 (Rev. 8-99)

DESIGNED	
CHECKED	
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

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SHEET NO. 55 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	87
SN 025-0107 & 025-0108			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

BORING LOGS
S.N. 025-0107 & 025-0108