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 10/07

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. 025-0009/0010
Station 2003+70

BORING NO. 5
Station 2005+35
Offset 73.30ft Lt
Ground Surface Elev. 511.82 ft

Surface Water Elev. 499.46 ft
Stream Bed Elev. 496.46 ft

Groundwater Elev.:
First Encounter 494.8 ft
Upon Completion Washed ft
After 24 Hrs. 499.8 ft

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Riprap and Sandy Loam.	507.32				
Medium, very moist, brown, SANDY LOAM w/Sand. 5% passing #200 sieve.	504.82	-5	4 3 3	0.4 S	11
Loose, moist to damp, brown, fluffy, fine grained, SAND. 5% passing #200 sieve.		-10	1 2 3 2		5
7% passing #200 sieve.		-20	3 3 2		15
With Gravel. 3% passing #200 sieve.	497.02	-25	3 2 1		
Very soft, wet, gray, SANDY LOAM w/many wood chunks.		-30	1 0 1	0.1 B	23
			2 3	0.1 B	19
		-35	0		
Very soft, wet, gray, SANDY LOAM w/many wood chunks. (continued)	489.82		1 0	0.1 S	25
Brown, wet, fine grained, SAND.	489.32		1		
Stiff, damp, gray, CLAY TILL.		-40	2 4 4	1.5 B	
		-45	7 10 3	1.2 B	16
		-50	3 6 8	1.2 B	15
		-55	2 4 5	1.4 B	19
	471.82	-60	6		

Latitude N 39 deg 25.036, Longitude W 89 deg 25.449 nom, Map Datum WGS 84

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 10/07

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. 025-0009/0010
Station 2003+70

BORING NO. 5
Station 2005+35
Offset 73.30ft Lt
Ground Surface Elev. 511.82 ft

Surface Water Elev. 499.46 ft
Stream Bed Elev. 496.46 ft

Groundwater Elev.:
First Encounter 494.8 ft
Upon Completion Washed ft
After 24 Hrs. 499.8 ft

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Stiff, damp, gray, CLAY TILL.			5 6	1.2 B	20
		-45	3 5 5	1.1 B	24
	462.32	-50	1 3 4	0.8 B	18
Medium, damp, gray, CLAY LOAM w/some Gravel.		-55			
	452.32	-60	4		
Stiff, damp, gray, CLAY LOAM TILL. (continued)			4 7	1.3 B	18
		-65			
Very dense, damp, bray marbled brown, SANDY LOAM TILL.	442.32	-70	22 50		12
Very dense, moist, gray, SANDY CLAY SHALE.	441.12		505"		
Borehole continued with rock coring.	436.82	-75	503" 501" 500"		
		-80			

Latitude N 39 deg 25.036, Longitude W 89 deg 25.449 nom, Map Datum WGS 84

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

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Date 10/07

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. 025-0009/0010
Station 2003+70

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner

Core Diameter 2.06 in
Top of Rock Elev. 441.12 ft
Begin Core Elev. 436.82 ft

BORING NO. 5
Station 2005+35
Offset 73.30ft Lt
Ground Surface Elev. 511.82 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Gray, slightly weathered, SANDY CLAY SHALE.	436.82			96	96	0.9	
Rock core B5C1 from 73.1' to 78.6' depth = 14.0 tsf Qu.	432.02						
No Recovery.	431.82	-80		100	100	0.9	
Gray, slightly weathered, SANDY CLAY SHALE.							
Rock core B5C2 from 83.9' to 84.4' depth = 16.7 tsf Qu.	426.82	-85					
Extent of exploration.							
Benchmark: BM 551 Chiseled Square on top of slopewall in median, on East side of Little Wabash River, Station 2005+75 Lt 25.7' = 521.58' elevation. Provided by Program Development.		-90					
		-95					

Color pictures of the cores Available on request
Cores will be stored for examination until 10/08
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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BORING LOGS
S.N. 025-0107 & 025-0108

SHEET NO. 56	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	88
58 SHEETS	SN 025-0107 & 025-0108		CONTRACT NO. 74296		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 70		

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