STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

Date 9/2/07

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. 3
Station 2002+75
Offset 73.00ft L1
Ground Surface Elev. 510.41 ft

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

Groundwater Elev.:
First Encounter 501.4 ft
Upon Completion 503.8 ft
After 72 Hrs. 503.9 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium to stiff, damp, gray, CLAY LOAM TILL.			4 6	1.2 B	19
		-45	2		
Sample disturbed, unable to obtain Qu.			4 5		19
	460.91				
Very stiff, damp, graybrown, SILTY CLAY.		-50	4 5 6	2.2 B	50
		-55			
		-60	4		
Very stiff, damp, graybrown, SILTY CLAY. (continued)			6 8	3.1 B	58
		-65			
	440.91				
Medium, damp, gray, SANDY LOAM.		-70	6 9 13	0.9 B	18
		-75			
	430.41	-80	4		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulgo, 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)

Latitude N 38 deg 35.776, Longitude W 88 deg 05.533 min, Map Datum WGS 84

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

Date 9/2/07

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. 3
Station 2002+75
Offset 73.00ft L1
Ground Surface Elev. 510.41 ft

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

Groundwater Elev.:
First Encounter 501.4 ft
Upon Completion 503.8 ft
After 72 Hrs. 503.9 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium, damp, gray, SANDY LOAM. Rock in sampler shoe, unable to obtain Qu.			6 8		
		-85			
	420.91				
Very dense, moist, gray, SANDY CLAY SHALE.	420.81	-90	501"		
Borehole continued with rock coring.			500"		
			500"		
		-95			
		-100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulgo, 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)

Latitude N 38 deg 35.776, Longitude W 88 deg 05.533 min, Map Datum WGS 84

ROCK CORE LOG

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

Date 9/2/07

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. 420.91 ft
Begin Core Elev. 420.81 ft

BORING NO. 3
Station 2002+75
Offset 73.00ft L1
Ground Surface Elev. 510.41 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Gray, slightly weathered, SANDY CLAY SHALE.	420.81	-90		96	67	0.9	
Rock core B3C1 from 91.1' to 91.6' depth = 92.2 tsf Qu.							
	418.31						
Gray, slightly weathered, SANDSTONE.							
	417.21						
Gray, slightly weathered, SANDY CLAY SHALE.							
	415.81						
Gray, SILTY CLAY SHALE.		-95		56	11	0.3	
Rock core B3C2 from 95.2' to 95.7' depth = 9.2 tsf Qu.	414.71						
Gray, moderately weathered, SANDSTONE.	414.31						
Alternating thin layers on SANDSTONE and SILTY CLAY SHALE.	413.51						
Gray, moderately weathered, SANDSTONE.	413.01						
No Recovery.							
	410.81						
Extent of exploration.		-100					
Benchmark: BM 551 Chiseled Square on top of slopewall in median, on East side of Little Wabash River, Station 2006+75 L1 25.7' = 521.58' elevation. Provided by Program Development.		-105					

Color pictures of the cores Available on request
Cores will be stored for examination until 9/2/08
The "Strength" column represents the unixxial 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.
3 Oak Drive
Maryville, IL 62062-5635
Local-(618) 288-4665
Fax 618-288-4666

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

SHEET NO. 54	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
58 SHEETS	70	(25-3)B	EFFINGHAM	1416	86
	SN 025-0107 & 025-0108		CONTRACT NO. 74296		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 70		

2/7/05 PM 3/19/2010 _\0250107-9499\054.dgn