STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Date 4/4/07

ROUTE FAP 308 DESCRIPTION P92-089-05 IL 84 over Apple River Tributary, 2 miles south of Hanover LOGGED BY W. Garza

SECTION 104 BR-1 and 103 BR-3 LOCATION Hanover Twp. - 22SE, SEC. , TWP. 26N, RNG. 2E

COUNTY JoDaviess DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 043-0038
Station 165+48

BORING NO. B-1a
Station 165+29
Offset 47.00ft Rt CL
Ground Surface Elev. 597.40 ft

Surface Water Elev. 595.40 ft
Stream Bed Elev. 588.90 ft

Groundwater Elev.:
First Encounter 587.9 ft ▼
Upon Completion 590.4 ft ▽
After ___ Hrs. ___ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SOFT brown SILTY LOAM	595.40		2		
			2	0.3	30.0
	593.90		3	P	
MEDIUM dark brown SILTY LOAM		-5	2		
			3	0.8	46.0
	591.40		4	B	
MEDIUM brown LOAM with LIMESTONE fragments	▽		3		
			4	0.8	21.0
	588.90		4	P	
MEDIUM gray SILT	▼	-10	1		
			2	0.5	33.0
	586.40		3	B	
SOFT gray SILTY CLAY with SAND lens			2		
			2	1.1	31.0
	583.90		3	B	
MEDIUM gray SILTY CLAY		-15	2		
			4	0.5	33.0
	581.40		5	P	
HARD olive-green CLAY LOAM			6		
			8	4.7	19.0
	578.90		12	B	
HARD gray/tan CLAY LOAM		-20	8		
HARD gray/tan CLAY LOAM *(continued)*	576.40		12	4.7	19.0
			18	B	
VERY STIFF gray/tan CLAY LOAM			7		
			10	3.5	22.0
	573.90		15	B	
HARD gray/tan CLAY LOAM		-25	10		
			15	5.4	21.0
	571.40		17	S	
VERY DENSE tan weathered LIMESTONE			30		
			54		
	568.90		29		
HARD tan SILTY CLAY with weathered LIMESTONE fragments		-30	35		
			16	5.9	17.0
	566.40		26	S	
VERY STIFF tan SILTY CLAY			4		
			6	3.3	20.0
	563.90		9	S	
VERY STIFF tan SILTY CLAY with SAND lens		-35	2		
			1	2.1	25.0
	561.40		2	B	
SOFT tan SANDY LOAM			1		
			1	0.4	36.0
	558.90		1	P	
		-40	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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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM tan SILTY CLAY with SAND LOAM lens *(continued)*			1	0.8	30.0
			1	P	
	555.90				
SOFT tan fine SAND with MUCK			1		
			3		28.0
	553.40		4		
VERY LOOSE tan weathered LIMESTONE on fine SAND		-45	3		
			1		
	551.40		1		
VERY LOOSE tan very moist SANDY LOAM on weathered LIMESTONE			1		
			1		
	548.90		1		
VERY LOOSE tan very moist SANDY LOAM with MUCK on weathered LIMESTONE		-50	1		
			0		
	546.40		0		
VERY LOOSE tan SANDY LOAM on weathered LIMESTONE			1		
			1		
	543.90		1		
MEDIUM tan weathered LIMESTONE		-55	14		
			14		
	541.40		8		
MEDIUM tan weathered LIMESTONE with MUCK			15		
			10		
	538.90		9		
		-60	8		
DENSE tan weathered LIMESTONE *(continued)*			9		
	536.40		37		
Hard Drilling			100/1"		
VERY DENSE tan weathered LIMESTONE					
Auger Refusal	533.90				
End of Boring					
		-65			
		-70			
		-75			
		-80			

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BBS, from 137 (Rev. 8-99)

DESIGNED	E.E.J.
CHECKED	J.Z.
DRAWN	R.B.H.
CHECKED	J.Z.

GRAEF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112

BORING LOGS I

Illinois Rte. 84 Over Apple River Tributary

STATION 165+50.00 STRUCTURE NO. 043-0078

SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SA22 OF 25 SHEETS	308	104BR-1	JO DAVIESS	126	58
			CONTRACT NO. 64B26		
	10-15-2010	ILLINOIS	FED. AID PROJECT		

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10/13/2010