BORING LOG: B-11 (1 of 4)

Illinois Department of Transportation
Division of Highways
Geotechnology, Inc

SOIL BORING LOG

Page 1 of 4

Date 11/28/00

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY BEC

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair DRILLING METHOD HSA with MR HAMMER TYPE Automatic Hammer

STRUCT. NO. 082-0322
Station NA

BORING NO. B- 11
Station 75+50.48
Offset 24.03ft Left
Ground Surface Elev. 416.90 ft

Surface Water Elev. Unknown ft
Stream Bed Elev. Unknown ft

Groundwater Elev.:
First Encounter ** ft
Upon Completion ** ft
After ** Hrs. ** ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY LOAM with roots to 1 1/2'			
415.40	2		
Loose, brown, SANDY LOAM	3	0.5	
	3	S	
413.90			
Medium stiff, brown, SILTY LOAM	1		
	3	1.6	
-5	4	S	
	1		
	3	1.5	
	4	S	
	1		
407.40	1	2.1	
Soft, brown with gray, mottles, SILTY CLAY with Fe staining -10	2	S	
406.40			
Soft, brown/gray, mottled, SILT with Fe staining	1		
405.40			
Soft, brown with gray mottles, 404.90	1	1.7	
SILTY CLAY with Fe staining	2	S	
Soft, brown/gray, mottled, SILT with Fe staining 403.90			
Medium stiff, brown/grey, mottled, SILTY CLAY	0		
	2	1.3	
401.90 -15	3	P	
Loose, brown, FINE GRAINED SAND with silt	2		
	3		
	5		
	2		
Start Mud Rotary Drilling @ 20'	4		
-20	5		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
396.40			
Medium stiff, gray, SILTY LOAM with Fe staining	2		
394.90			
Medium stiff to stiff, brown, SILTY LOAM	4		
	4		
	4		
-25	5		
Fe staining @ 26' - 28'	5		
	5		
	4		
388.90			
Medium stiff, brown, SILTY LOAM	3		
	4		
-30	4		
386.40			
Medium dense, brown, SANDY LOAM with laminations of black organic material	5		
	5		
-35	7		
379.90			
Medium dense, brown, FINE GRAINED SAND	7		
	7		
-40	11		

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)
* Rimac not measured due to sample disturbance
** Not measured due to drilling methods used

BBS, from 137 (Rev. 8-99)

BORING LOG: B-11 (2 of 4)

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Page 2 of 4

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First Encounter ** ft
Upon Completion ** ft
After ** Hrs. ** ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium dense, brown, FINE GRAINED SAND (continued)			
374.90			
Medium dense to dense, gray, FINE GRAINED SAND			
Laminations of black organic material @ 42' to 47' and medium grained SAND @ 42' to 47'			
See Attached Gradation Test Results	12		
	13		
-45	14		
	8		
	5		
-50	8		
	8		
	12		
-55	16		
	9		
	9		
-60	11		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium dense to dense, gray, FINE GRAINED SAND			
Laminations of black organic material @ 42' to 47' and medium grained SAND @ 42' to 47' (continued)			
See Attached Gradation Test Results	13		
	18		
-65	20		
	4		
	5		
-70	7		
	12		
	13		
-75	15		
336.90 -80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BBS, from 137 (Rev. 8-99)

BORING LOG: B-11 (3 of 4)

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SOIL BORING LOG

Page 3 of 4

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ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY BEC

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Stream Bed Elev. Unknown ft

Groundwater Elev.:
First Encounter ** ft
Upon Completion ** ft
After ** Hrs. ** ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium dense, brown, COARSE GRAINED SAND with lenses of light gray, weathered limestone			
	13		
	11		
-85	10		
326.90 -90			
Medium dense, brown, MEDIUM GRAINED SAND	11		
	9		
	10		
-95			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very dense, brown, FINE to MEDIUM GRAINED SAND			
	13		
	29		
-105	37		
306.90 -110			
Very dense, brown, MEDIUM to COARSE GRAINED SAND with lenses of light gray, weathered limestone	30		
	>50		
302.40			
GRAVEL, BOULDERS (GLACIAL OUTWASH) -115			
299.40			
CRYSTALLINE LIMESTONE - See Rock Core Log -120			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BBS, from 137 (Rev. 8-99)

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AECOM

USER NAME =	DESIGNED - PJL	REVISED -	
	DRAWN - BRD	REVISED -	
PLOT SCALE = 0.2 '/ IN.	CHECKED - DDB	REVISED -	
PLOT DATE = 6/27/2011	DATE - 07-01-11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS VII
I-70E OVER I-55, CSX & KCS RAILROADS
SCALE: | SHEET S-196 OF S-234 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	323
	S.N. 082-0322 & S.N. 082-0324	CONTRACT NO. 76C76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		