BORING LOG: B-414 (Page 1 of 3)

Illinois Department of Transportation
Division of Highways
Geotechnology, Inc

SOIL BORING LOG

Page 1 of 3

Date 4/14/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY LAH

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

COUNTY St. Clair DRILLING METHOD HSA with MR DRILL RIG/ HAMMER EFFICIENCY CME 75 / 80%

STRUCT. NO. 082-0322
Station NA

BORING NO. B-414
Station 71+91.35
Offset 0ft Left
Ground Surface Elev. 414.8 ft

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

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL - 3 inches	414.8				
Brown and black, SILTY CLAY (FILL), with cinders, gravel, and brick fragments			2		
			2		15
			7		
Soft, brown, SILT	411.8				
			2		
			1		30
			3		
Very soft, brown, SILTY CLAY	409.3				
			0		
			0		30
			0		
Medium stiff, brown, CLAY	406.8				
			0		
			1	0.9	36
		10	1	S	
Soft, brown, SILT	404.3				
			1		
			1		35
			2		
Soft, brown, SILTY LOAM	401.8				
			1		
			2		30
		15	1		
Medium stiff, brown, CLAY	399.3				
			1		
			2		34
			3		
Medium dense, brown, MEDIUM GRAINED SAND See attached grain size distribution	396.8				
			4		
		20	5		
			7		
Medium dense, brown, MEDIUM GRAINED SAND *(continued)*					
			6		
			2		
			4		
Medium stiff, brown, SILT	392.8				
Medium dense, brown, FINE GRAINED SAND	391.8				
			5		
			6		
		25	6		
			7		
			7		
			8		
Medium stiff, gray, CLAY	386.8				
			0		
			1	0.6	43
		30	1	B	
Stiff to very stiff, brown, SILTY LOAM	382.8				
			4		26
		35	6		
		40	9		

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 attempted, not measured due to sample disturbance
** Not measured due to drilling methods used

BBS, from 137 (Rev. 8-99)

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After ___ Hrs. ** ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Stiff to very stiff, brown, SILTY LOAM *(continued)*					
	372.8				
Medium dense, gray, FINE GRAINED SAND, trace silt					
See attached grain size distribution			6		
			9		
		45	10		
			7		
			5		
		50	6		
			8		
			10		
		55	13		
			9		
			11		
		60	10		
Medium dense, gray, FINE GRAINED SAND, trace silt *(continued)*					
			11		
			10		
		65	6		
			7		
			6		
		70	7		
			8		
		75	9		
See attached grain size distribution			16		
			12		
		80	14		

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After ___ Hrs. ** ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium dense, gray, FINE GRAINED SAND, trace silt *(continued)*					
	332.8				
Medium dense, grayish brown, COARSE GRAINED SAND					
		85			
			9		
			13		
		90	16		
		95			
Medium dense, grayish brown, COARSE GRAINED SAND *(continued)*					
	309.8	105			
Dense, grayish brown, COARSE GRAINED SAND, with gravel					
		110			
		115			
	296.8				
End of Boring					
			9		
		100	7		
			7		
		120			

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