Illinois Department of Transportation
Division of Highways
Geotechnology, Inc

SOIL BORING LOG

Date 4/15/10

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY RFW

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 18, TWP. 2N, RNG. 9W

COUNTY St. Clair DRILLING METHOD HSA with MR below 35 ft HAMMER TYPE CME 750X / 73%

STRUCT. NO. 082-W306
Station NA

BORING NO. RW-415
Station 69+20
Offset 10ft Left
Ground Surface Elev. 417.9 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 (%)
Black, CINDERS, with sand, gravel, and brick (FILL)			4		
	415.9		5	3.3	26
Very stiff to stiff, gray to brown, CLAY			4	B	
			3		
			3	2.9	25
		-5	4	B	
			2		
			2	1.7	27
			3	B	
	409.9				
Soft to very stiff, brown, SILT			1		
			2		15
		-10	2		
			2		
			1	2.2	30
			2	B	
			2		
	403.6		2	1.4	38
Stiff, brown, CLAY		-15	3	S	
			2		
	400.9		2	1.3	31
Stiff, brown, SILT			5	S	
			4		
			4		9
		-20	5		
Stiff, brown, SILT *(continued)*	397.4				
Medium dense, brown, FINE GRAINED SAND			4		
Grain Size Distribution Conducted			7		6
			9		
	394.1		2		
Stiff, gray, CLAY			2	1.7	32
		-25	2	S	
			1		
			1	1.3	40
			2	S	
	389.9				
Stiff, brown, SILTY LOAM			8		
	388.6		8		25
Medium dense, brown, FINE GRAINED SAND		-30	11		
			7		
			8		
		-35	8		
			17		
dense, with gravel			19		
		-40	14		

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 (%)
Medium dense, brown, FINE GRAINED SAND *(continued)*			6		
			7		
		-45	8		
			7		
			7		
		-60	6		
	366.9				
Medium dense, brown to gray, MEDIUM GRAINED SAND			8		
Grain Size Distribution Conducted			10		
		-55	13		
			12		
dense			14		
		-80	17		
Medium dense, brown to gray, MEDIUM GRAINED SAND *(continued)*			12		
			14		
		-65	14		
			5		
			5		
		-70	6		
	345.9				
Dense to medium dense, FINE TO MEDIUM GRAINED SAND			7		
			10		
		-75	27		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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