BORING LOG: B-413 (1 of 3)

Illinois Department of Transportation
Division of Highways
Geotechnology, Inc

SOIL BORING LOG

Page 1 of 3

Date 4/8/09

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 HAMMER TYPE CME 75 / 80%

STRUCT. NO. 082-0322
Station NA

BORING NO. B-413
Station 70+6.12
Offset 13.03ft Left
Ground Surface Elev. 397.70 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 - 7 inches	397.00				
Gray, SILTY LOAM (FILL)			1		
			2		26
			2		
Gray, SILTY CLAY (FILL)	394.70				
			2		
			2		52
		-5	2		
Soft, gray, CLAY	392.20				
			1		
			3		12
Loose, brown, FINE GRAINED SAND	390.70		4		
Loose, brown, SANDY LOAM	389.70				
			3		
			4		
		-10	3		
Loose, brown, FINE GRAINED SAND	387.20				
			2		
			3		
			4		
			3		
			3		
		-15	3		
Loose, brown, FINE GRAINED SAND, with silt See attached grain size distribution	382.20				
			3		
			3		
			5		
			3		
			4		
		-20	5		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium dense, gray, FINE GRAINED SAND See attached grain size distribution	377.20				
			3		
			5		
			7		
			5		
			5		
		-25	8		
			7		
			8		
			7		
			5		
			5		
		-30	8		
			6		
			7		
		-35	9		
			11		
			11		
		-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 not measured due to sample disturbance
** Not measured due to drilling methods used

BBS, from 137 (Rev. 8-99)

BORING LOG: B-413 (2 of 3)

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium dense, gray, FINE GRAINED SAND (continued)					
			10		
			13		
		-45	16		
Very dense, gray, SANDY LOAM	350.70				
			25		
			30		
		-50	31		
Medium dense to dense, gray, MEDIUM GRAINED SAND	346.70				
			8		
			14		
		-55	17		
			9		
			10		
		-60	12		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium dense to dense, gray, MEDIUM GRAINED SAND (continued)					
			11		
			17		
		-65	17		
			11		
			14		
		-70	14		
			11		
		-75			
with coarse sand and gravel	320.70				
See attached grain size distribution			6		
			6		
		-80	8		

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
with coarse sand and gravel (continued)					
Gravel layer	313.20	-85			
Dense, gray, MEDIUM GRAINED SAND	309.70		18		
			18		
		-90	16		
Gravel, cobbles, boulders	305.70				
		-95			
End of Boring	300.70				
		-100			

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