BORING LOG: B-415 (1 of 3)

Illinois Department of Transportation
Division of Highways
Geotechnology, Inc

SOIL BORING LOG

Page 1 of 3

Date 4/15/08

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-415
Station 73+70.67
Offset 33.98ft Left
Ground Surface Elev. 406.20 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 - 14 inches	405.00				
			2		
Medium stiff, brown, SILT	404.20		2		33
			3		
Medium stiff, brown, CLAY	403.20				
Medium stiff, brown, SILTY LOAM			2		
			3		20
		-5	3		
			0		
			3		35
			4		
			1		
	396.70		1		34
Soft, gray, SILTY CLAY		-10	2		
	395.70				
Medium stiff, brown, SILTY LOAM			1		
	394.20		2	0.7	22
Medium stiff, gray, CLAY			4	B	
	393.20				
Medium dense, brown, SANDY LOAM			4		
			6		14
		-15	6		
			4		
			7		5
			6		
			3		
			5		9
		-20	7		
Medium dense, brown, SANDY LOAM (continued)			4		
			5		14
			7		
		-25	8		
	380.70				
Medium dense, gray, FINE GRAINED SAND, trace silt			6		
			7		
			9		
See attached grain size distribution			6		
			8		
		-30	10		
			6		
			7		
		-40	6		

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-415 (2 of 3)

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SOIL BORING LOG

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Date 4/15/08

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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%

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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 (%)
Medium dense, gray, FINE GRAINED SAND, trace silt (continued)			9		
			7		
		-45	7		
			21		
			25		
		-50	28		
very dense					
			9		
			16		
		-55	21		
dense					
			14		
1 inch gravel seam			10		
	346.20	-60	7		
Medium dense to dense, grayish brown, MEDIUM GRAINED SAND					
See attached grain size distribution			10		
			12		
		-65	15		
			12		
			20		
		-70	26		
	331.20	-75			
Medium dense to dense, grayish brown, MEDIUM GRAINED SAND, trace gravel					
			7		
			6		
		-80	11		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BORING LOG: B-415 (3 of 3)

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SOIL BORING LOG

Page 3 of 3

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium dense to dense, grayish brown, MEDIUM GRAINED SAND, trace gravel (continued)					
	321.20	-85			
Medium dense to dense, grayish brown, MEDIUM GRAINED SAND, trace gravel					
See attached grain size distribution			9		
			9		
		-90	9		
		-95			
dense gravel layer			30		
			17		
		-100	18		
Medium dense to dense, grayish brown, MEDIUM GRAINED SAND, trace gravel (continued)					
		-105			
	299.70				
End of Boring					
		-110			
		-115			
		-120			

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