BORING LOG: B-412 (Page 1 of 3)

Illinois Department of Transportation
Division of Highways
Geotechnology, Inc

SOIL BORING LOG

Page 1 of 3

Date 3/2/09

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-412
Station 68+88.13
Offset 8ft Right
Ground Surface Elev. 393.9 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 (%)
Brown, SANDY LOAM (FILL)			
	4		
	7		
390.9	6		
Medium dense, brown, FINE GRAINED SAND			
	4		
	6		
-5	5		
388.4			
Loose, brown to gray, FINE GRAINED SAND, trace silt	3		
	4		
	3		
	2		
	3		
-10	4		
See attached grain size distribution	3		
	4		
	5		
	2		
	3		
-18	4		
	6		
	5		
	6		
medium dense			
	4		
	3		
-20	4		
373.4			
Medium stiff, gray, SILTY LOAM	0		
	2	0.5	35
	5	B	32
370.9			
Medium dense, gray, FINE GRAINED SAND, trace silt	5		
	7		
-25	8		
368.4			
Loose to medium dense, brownish gray, FINE GRAINED SAND, trace silt	3		
	3		
	4		
	3		
-30	5		
	9		
See attached grain size distribution	5		
	5		
-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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DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Loose to medium dense, brownish gray, FINE GRAINED SAND, trace silt *(continued)*			
dense	10		
	19		
-45	13		
346.9			
Medium dense, gray, FINE GRAINED SAND	20		
	14		
-50	13		
See attached grain size distribution	11		
	10		
-60	11		
Medium dense, gray, FINE GRAINED SAND *(continued)*			
loose	7		
	5		
-65	5		
326.9			
Dense, gray, FINE TO MEDIUM GRAINED SAND			
See attached grain size distribution	13		
	18		
-70	24		
	8		
	17		
-80	17		

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dense, gray, FINE TO MEDIUM GRAINED SAND *(continued)*			
-85			
308.9			
Dense, gray, COARSE GRAINED SAND, with gravel	17		
	17		
-92	23		
300.9			
End of Boring	50/1"		
-95			
-100			

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BBS, from 137 (Rev. 8-99)

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AECOM	USER NAME =	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS XXXI I-70E OVER I-55, CSX & KCS RAILROADS
		DRAWN - BRD	REVISED -		
	PLOT SCALE = 8:2 '1' / IN.	CHECKED - DDB	REVISED -		SCALE: SHEET S-220 OF S-234 SHEETS STA. TO STA.
	PLOT DATE = 6/27/2011	DATE - 07-01-11	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	347
	S.N. 082-0322 & S.N. 082-0324	CONTRACT NO. 76C76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		