

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Illinois Department of Transportation
Division of Highways
Geotechnology, Inc.

SOIL BORING LOG

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Date 3/26/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY DTC

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. 082-0326
Station NA
BORING NO. B-424
Station 13+37.77
Offset 5ft LT
Ground Surface Elev. 419.4 ft

Surface Water Elev. Unknown ft
Stream Bed Elev. Unknown ft
Groundwater Elev.:
First Encounter Not Measured ft
Upon Completion Not Measured ft
After Hrs. Not Measured ft

DEPTH (ft)	SOIL DESCRIPTION	UCS (tsf)	Failure Mode	DEPTH (ft)	SOIL DESCRIPTION	UCS (tsf)	Failure Mode
337.4	Medium dense to dense, gray, FINE GRAINED SAND, trace silt (continued)			-105	Very dense, gray, FINE GRAINED SAND (continued)		
-85	Dense, gray brown, MEDIUM GRAINED SAND			-110	Dense, GRAVEL, trace sand and clay	33	
329.4	Grain size distribution conducted	11		-115	Very dense, gray, FINE GRAINED SAND	22	
324.4		20		-120	CRYSTALLINE LIMESTONE - See attached rock core log	22	
-95		13		300.4		50/4"	
18							
23							
29							
-100							

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 BBS, from 137 (Rev. 8-99)
** Not measured due to drilling methods used

AECOM

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Chicago, Illinois 60601
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Fax: 312.373.6806
www.aecom.com

SOIL BORING: B-424
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DESIGNED	- P.J.L.
CHECKED	- D.D.B.
DRAWN	- B.R.D.
CHECKED	- D.D.B.

03/31/2011



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DEPTH (ft)	SOIL DESCRIPTION	UCS (tsf)	Failure Mode	DEPTH (ft)	SOIL DESCRIPTION	UCS (tsf)	Failure Mode
-125	CRYSTALLINE LIMESTONE - See attached rock core log (continued)			-130			
290.4	End of Boring			-135			
-140							

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 BBS, from 137 (Rev. 8-99)
** Not measured due to drilling methods used

SOIL BORING: B-424
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BORING LOGS - IV
STRUCTURE NO. 082-0326

SHEET NO. S32	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	64	82-1-3HB, 82-2N, 82-1-12RS	ST. CLAIR	352	234
S36 SHEETS	F.A.U. 9166 / F.A.U. 9180		CONTRACT NO. 76C51		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		