

BORING LOG: B-404 (4 of 4)



Illinois Department of Transportation
Division of Highways
Geotechnology, Inc.

SOIL BORING LOG

Page 4 of 4

Date 4/17/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY DTC
SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W
COUNTY St. Clair DRILLING METHOD HSA with MR HAMMER TYPE CME 75 / 80%

STRUCT. NO. <u>082-0322</u>	D E P T H	B L O W S	U C S	M O I S T U R E	Surface Water Elev. <u>Unknown</u> ft
Station <u>NA</u>					Stream Bed Elev. <u>Unknown</u> ft
BORING NO. <u>B-404</u>	ft (ft) (/6") (1st) (%)				Groundwater Elev. <u>**</u> ft
Station <u>53+44.25</u>					First Encounter <u>**</u> ft
Offset <u>18.65ft Right</u>					Upon Completion <u>**</u> ft
Ground Surface Elev. <u>418.57</u> ft					After <u>**</u> ft
CRYSTALLINE LIMESTONE - See attached rock core log (continued)					
-120					
-125					
-130					
-135					
-140					
End of Boring <u>290.07</u>					

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

ROCK CORE LOG: B-404 CORE (1 of 1)



Illinois Department of Transportation
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ROCK CORE LOG

Page 1 of 1

Date 4/17/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY DTC
SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W
COUNTY St. Clair CORING METHOD Wireline

STRUCT. NO. <u>082-0322</u>	D E P T H	C O R E	R E C O V E R Y	R Q D	C O R E T I M E	S T R E N G T H	
Station <u>NA</u>							CORING BARREL TYPE & SIZE <u>NX</u>
BORING NO. <u>B-404 Core</u>	ft (#) (%) (%) (min/ft) (1st)						
Station <u>53+44.25</u>							Core Diameter <u>2</u> in
Offset <u>18.65ft Right</u>							Top of Rock Elev. <u>300.07</u> ft
Ground Surface Elev. <u>418.57</u> ft							Begin Core Elev. <u>300.07</u> ft
Hard, gray, finely crystalline, medium bedded, slightly weathered, LIMESTONE							
1 89 69							
-120							
-125							
-130							
-135							
-140							
End of Boring <u>290.07</u>							
highly weathered seam							
2 100 90 856.0							
3 100 81							

Color pictures of the cores Yes
Cores will be stored for examination until 9-30-09
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

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USER NAME =	DESIGNED - PJL	REVISED -
PLOT SCALE = 0.2" = 1' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/27/2011	CHECKED - DDB	REVISED -
	DATE - 07-01-11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS XIX
I-70E OVER I-55, CSX & KCS RAILROADS

F.A.I. RTE. 70	SECTION 82-1-B-2	COUNTY ST. CLAIR	TOTAL SHEETS 399	SHEET NO. 335
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCALE: SHEET S-208 OF S-234 SHEETS STA. TO STA.