Illinois Department of Transportation
Division of Highways
Geotechnology, Inc

SOIL BORING LOG

Page 1 of 1

Date 2/5/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY RFW

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair DRILLING METHOD HSA HAMMER TYPE CME 75 / 80%

STRUCT. NO. 082-W306
Station NA

BORING NO. SB-405
Station 63+22
Offset 40ft Right
Ground Surface Elev. 419.5 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)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Crushed limestone GRAVEL base (FILL) 419.2			
Brown, SILT (FILL), with sand, gravel, clay, and concrete rubble	8		
	12		14
	3		
	3		
	50/1"		16
-5 414.0			
Loose, brown, SAND (FILL), with silt	2		
	3		16
	3		
	2		
	2		14
-10	3		
	2		
	3		16
	3		
	0		
	1		29
-15	3		
404.0			
Loose to medium dense, gray, FINE GRAINED SAND	3		
	3		
	5		
	5		
	5		
-20 399.5	6		
End of Boring			

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)

Illinois Department of Transportation
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ROCK CORE LOG

Page 1 of 1

Date 11/2/00

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY BEC

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair CORING METHOD Wireline

STRUCT. NO. 082-W306
Station NA

BORING NO. B- 18 Core
Station 62+26.75
Offset 21ft Right
Ground Surface Elev. 420.0 ft

CORING BARREL TYPE & SIZE NX (2.985 in.)
Core Diameter 2 in
Top of Rock Elev. 299.5 ft
Begin Core Elev. 299.5 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Broken LIMESTONE, hard, light gray to gray, fine crystalline, slightly weathered with no signs of discoloration 298.8	1	100	83	3.2	
LIMESTONE, hard, light gray to gray, very fine to fine crystalline, micritic in places, thick bedded to massive, fresh to slightly weathered					427.0
295.4					
-125 LIMESTONE, hard, light gray to gray, very fine to fine crystalline, micritic in places, thick bedded to massive, fresh to slightly weathered with vertical fracturing with weathering along fractures (127.5' - 129'), moderately weathered with partings and bands of greenish gray shale (129.5' - 130.5')	2	95	92	2.7	
290.0 -130 Core loss 289.5					
End of Boring					
-135					
-140					

Color pictures of the cores Yes
Cores will be stored for examination until September 1, 2002
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Geotechnology, Inc

ROCK CORE LOG

Page 1 of 1

Date 11/26/01

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY JSS

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair CORING METHOD Wireline

STRUCT. NO. 082-W306
Station

BORING NO. B-211
Station 67+60.43
Offset 8ft Right
Ground Surface Elev. 416.8 ft

CORING BARREL TYPE & SIZE NX (2.985 in.)
Core Diameter 2 in
Top of Rock Elev. 299.8 ft
Begin Core Elev. 299.8 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE: Brownish-gray, very finely crystalline, porphyritic, massive, fresh, good quality, hard, dense, occasional stylolites and argillaceous limestone partings 299.8	1	90	82	4.2	1370.0
-120					
LIMESTONE: Gray, very finely crystalline, massive, fresh, fair quality, hard, dense, argillaceous 294.1	2	71	35	7.9	
-125					
bluish-gray clay seams from 126 to 126.4 feet 290.3					
End of Boring					
-130					
-135					

Color pictures of the cores Yes
Cores will be stored for examination until 9/1/02
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

082-W306-76C75-Boring Logs Sheets 6-18.dgn

ZROKA engineering
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

USER NAME = Scott Whitney	DESIGNED - PMM	REVISED -
	DRAWN - MJK	REVISED -
PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAZ	REVISED -
PLOT DATE = 3/9/2011	DATE - 3-18-2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL 082-W306
BORING LOGS

SCALE: N.T.S. | SHEET NO. 17 OF 18 SHEETS | STA. 60+50.00 TO STA. 74+11.55

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-1HB	ST. CLAIR	319	270
		CONTRACT NO. 76C75		
	ILLINOIS FED. AID PROJECT			