

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SHELBY TUBE TEST RESULTS

Page 1 of 3
Date 3/27/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange		DRILLED BY BS		TRIAxIAL DATA						
SECTION 82-1	LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W	DEPTH (ft)	UNIT (no)	WEIGHT (%)	UNIT (pcf)	STRENGTH (tsf)	MOISTURE (%)	COHESION (tsf)	PHI (deg)	TEST TYPE
SOIL TYPE, DESCRIPTION AND OBSERVATIONS										
Brown, clayey SILT (FILL), trace organics and trace sand		1-1	67			19				
Brown, clayey SILT (FILL), trace organics and trace sand		1-2	100		119	0.8	19			Uc
Brown, clayey SILT (FILL), trace organics and trace sand		1-3	83			19				
Gravel (FILL)		2-1								
Clay and Gravel (FILL)		3-1								
Brown, SILTY LOAM		4-1	100			27				
Brown, SILTY LOAM		4-2	100			27				
Brown, CLAY		4-3	67	116		35				
Brown SANDY LOAM		5-1	100							
Brown SANDY LOAM		5-2	100							
Brown, SILTY CLAY		5-3	100			37				
Brown, SILTY CLAY		5-4	67			37				
Brown, SANDY LOAM, with trace iron staining and gravel		6-1	100	110		44				CU
Brown, SANDY LOAM, with trace iron staining and gravel		6-2	100	112	0.6	31				UU
Brown and gray, CLAY, with iron staining		6-3	100							
Brown and gray, CLAY, with iron staining		6-4	83							
Brown and gray, CLAY, with fine grained sand		7-1	100							
Brown gray, CLAY		7-2	100							

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

BMPR FORM 1004A (Rev. 8-99)

SHELBY TUBE TEST: B-424
1 OF 3



SHELBY TUBE TEST RESULTS

Page 2 of 3
Date 3/27/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange		DRILLED BY BS		TRIAxIAL DATA						
SECTION 82-1	LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W	DEPTH (ft)	UNIT (no)	WEIGHT (%)	UNIT (pcf)	STRENGTH (tsf)	MOISTURE (%)	COHESION (tsf)	PHI (deg)	TEST TYPE
SOIL TYPE, DESCRIPTION AND OBSERVATIONS										
Brown gray, CLAY		7-3	100	111		33	0.2	25		CU
Brown, CLAY		8-1	100	110		37				CU
Brown, CLAY		8-2	100	112	1.3	38				Uc
Brown, SILTY LOAM		8-3	83			31				
Brown, SANDY LOAM		9-1								
Brown, SANDY LOAM		10-1								
Brown, MEDIUM GRAINED SAND		11-1	100							
Gray brown, SANDY LOAM		11-2	100	119		29				CU
Gray brown, SANDY LOAM		11-3	100	117		29	0.0	26		CU
Gray brown, SANDY LOAM		11-4	100	117		30				
Brown, SANDY LOAM		12-1	100							
Brown, SANDY LOAM		12-2	100	113		26				CU
Brown, FINE GRAINED SAND		12-3	100	117		25				
Brown, FINE GRAINED SAND		12-4	83							
Brown, SANDY LOAM		13-1	100							
Gray brown, CLAY		13-2	100	114		36				
Gray, CLAY		13-3	100	111	0.7	42				UU

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

BMPR FORM 1004A (Rev. 8-99)

SHELBY TUBE TEST: B-424
2 OF 3

AECOM

303 East Wacker Drive, Suite 600
Chicago, Illinois 60601
Ph: 312.938.0300
Fax: 312.373.6806
www.aecom.com

DESIGNED - P.JL
CHECKED - DDB
DRAWN - BRD
CHECKED - DDB

03/31/2011

BORING LOGS - VII
STRUCTURE NO. 082-0326

SHEET NO. S35	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-1-3HB, 82-2N, 82-1-12RS		ST. CLAIR	352	237
S36 SHEETS		F.A.U. 9166 / F.A.U. 9180	CONTRACT NO. 76C51		
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		