

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 24 24 SHEETS
FAP 805	147BR	ST. CLAIR	52	44	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT			

Contract No. 76393

Lab# 02025
Date: 05-16-2003

Lab# 02025
Date: 05-16-2003

SHELBY TUBE TEST DATA
Route FAP-805 Section 147BR County St. Clair
Boring 9-ST Station 102+00 Offset 38 FL Lt. Cl. Structure # 082-0100 (Existing)
Ground Surface Elevation 465.3 Job No. D-98-123-00

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Route FAP-805 Section 147BR County St. Clair
Boring 9-ST Station 102+00 Offset 38 FL Lt. Cl. Structure # 082-0100 (Existing)
Ground Surface Elevation 465.3 Job No. D-98-123-00

Specimen	Depth (ft)	Compressive Strength (tsf)	Water %	Wet Weight lbs./cu. ft.	Description
	0				Not Sampled - Fill Material
	1				↓
	1				↓
	12.0				↓
1-1	12.33		17.7		Brown Silt w/isolated SIC Pockets
1-2	12.96	2.03	19.5	123.6	Brown SIL w/SIC Pockets
1-3	13.58	0.88	20.8	117.5	Same
1-4	14.21	0.76	18.9	116.1	Brown SIL w/Silt Lenses and Pockets
2-1	14.75		21.6		Same
2-2	15.38	0.32	23.2	108.5	↓
2-3	16.00	0.47	25.0	113.4	↓
2-4	16.63	0.71	26.7	116.5	Same
3-1	17.25		24.8		Gray SIL w/Sand Pockets and Lenses
3-2	17.88	CONS	24.2	117.5	Gray SIL w/Sand Pockets
3-3	18.50	TX	25.7	117.8	Alternating Fine Layer of Gray SIL, Loam and Tan Sand
3-4	19.13	0.41	32.2	113.0	Gray SIL w/Silt Lenses, Organic Pockets and Wood Chips
	20.13				No Sample
	20.75				↓
	21.38				↓
	22.00				↓
4-1	22.50	0.43	23.5	120.7	Gray SIL w/Large Tan Sil Pockets
4-2	23.13	0.74	28.1	121.8	Greenish-Gray Clayey SIL
4-3	23.75	TX	27.1	123.7	Same
4-4	24.50				No Recovery
5-1	24.92		28.0		Greenish-Gray Clayey SIL
5-2	25.54	TX	27.6	120.9	Same
5-3	26.17	CONS	27.7	122.6	Gray Clayey SIL
5-4	26.79		24.4		Greenish-Gray Clayey SIL

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Specimen	Depth (ft)	Compressive Strength (tsf)	Water %	Wet Weight lbs./cu. ft.	Description
	27.63				No Sample
	28.25				↓
	28.88				↓
	29.50				↓
	30.13				↓
	30.75				↓
	31.38				↓
	32.00				↓
6-1	32.33		26.3		Gray SIL w/Silt Lenses
6-2	32.96				No Recovery
6-3	33.58				↓
6-4	34.50				↓
7-1	34.83		30.5		Gray Loam w/Sand and Organic Pockets
7-2	35.46	CONS	24.9	119.8	Alternating Layers of Sil and SIL
7-3	36.08	0.17	27.7	118.7	Same, Plus Organic Seams and Pockets
7-4	36.71	TX	18.0	113.2	Gray SIL w/Loam Layer
	37.63				No Sample
	38.25				↓
	38.88				↓
	39.50				↓
8-1	39.83		27.4		Gray Clayey Silt w/Organic Pockets
8-2	40.46	0.84	29.7	116.0	Same
8-3	41.08	0.76	27.7	118.7	Same
8-4	41.71	1.02	27.9	120.9	Same
9-1	42.82	0.77	19.4	125.7	Gray SIL w/Small Gravel
9-2	43.25	1.23	31.6	108.8	Gray-Brown SIL w/SIC Seams and Organic Pockets
9-3	43.88	1.27	28.7	119.2	Gray SIL
9-4	44.50				No Recovery

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Ground Surface Elevation 465.3 Job No. D-98-123-00

Specimen	Depth (ft)	Compressive Strength (tsf)	Water %	Wet Weight lbs./cu. ft.	Description
10-1	44.83		27.3		Gray SIL
10-2	45.46	CONS	29.0	121.0	Gray SIL
10-3	46.08	TX	26.8	123.2	Same
10-4	47.00				No Recovery
11-1	47.62	0.68	26.3	121.5	Gray Silt
11-2	48.25	0.85	25.9	124.9	Same
11-3	48.88	0.67	27.9	122.7	Same
11-4	49.50				No Recovery
12-1	50.12	0.79	27.2	120.1	Gray-Brown SIL
12-2	50.75	CONS	30.0	120.7	Gray SIL w/Silt Lenses - Organic Specks
12-3	51.38	TX	28.3	120.5	Gray SIL w/SIC Seams and Pockets
12-4	52.00				No Recovery
13-1	52.33		28.0		Gray Silt w/Sand Lenses and Organic Seams
13-2	52.96	1.00	27.8	118.3	Gray Silt w/isolated SIC Pockets
13-3	53.58	0.98	27.2	113.3	Gray Silt w/SIC Seams
13-4	54.21	1.09	28.0	118.4	Gray Silt
14-1	55.12	TX	26.9	121.9	Brown SIL, Top 1/4, to Gray SIL w/SIC Seams
14-2	55.75	TX	28.8	121.1	Gray and Red Clay, Top 2/3, to All Fine Layers of Silt, SIL, and SIC
14-3	56.38	TX	27.6	121.1	Gray SIL w/SIC Seams
14-4	57.00				No Recovery
15-1	57.33		32.3		Brown Silt w/Calcareous Specks
15-2	57.96	TX	28.6	119.6	Brown SIL, Top 1/2, to Gray SIL
15-3	58.58	CONS	27.8	122.4	Blue-Gray Clay
15-4	59.50				No Recovery
16-1	59.83		35.7		Blue-Gray Clay w/Brown SIL Pockets
16-2	60.46	TX	33.6	116.7	Blue-Gray Clay w/Silt Lenses Lower 1/2
16-3	61.08	1.10	34.5	110.7	Reddish-Gray Clay w/Silt Seams and Pockets
16-4	62.00				No Recovery

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Specimen	Depth (ft)	Compressive Strength (tsf)	Water %	Wet Weight lbs./cu. ft.	Description
U.U. TRIAXIAL ANALYSIS					
		c (psf)	σ'		
3-3	18.50	600	12		
4-3	23.75	800	8		
5-2	25.54	600	5		
7-4	36.71	600	24		
10-3	46.08	600	6		
12-3	51.38	1200	6		
14-1	55.12	800	3		
14-2	55.75	1400	2		
14-3	56.38	1200	11		
15-2	57.96	800	3		
16-2	60.46	1800	1		

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DESIGNED	ALN
CHECKED	BWP
DRAWN	DEH
CHECKED	ALN

ILLINOIS ROUTE 161 OVER
TRIBUTARY TO SCHOENBERGER CREEK
F.A.P. ROUTE 805 - SECTION 147BR
ST. CLAIR COUNTY
STATION 101+03.82
STRUCTURE NO. 082-0102 (N.B.)
STRUCTURE NO. 082-0103 (S.B.)

BORING LOGS

FILE LOCATION: \$FILE\$
DATE: \$DATE\$
TIME: \$TIME\$
PLOTTED BY: \$USER\$