

## **APPENDIX D: STE Laboratory Testing**

Soil Testing Engineers Inc. performed a series of laboratory tests on the samples retrieved during the field investigation by ILIT. Tests performed included

- a) Atterberg Limits, ASTM D 4318
- b) Triaxial Unconfined Compression Test, ASTM D 2166
- c) Triaxial Unconsolidated Undrained Compression Test, ASTM D 2850
- d) Laboratory Vane Shear Test
- e) Consolidation Test, ASTM D 2435

Results of these tests are summarized in the Figures and Tables that follow.

Table D.1: Laboratory Testing Results

Project: New Orleans Levee Study

File No.: 06-1004

Client: Independent Levee Investigation Team (ILIT)

Date: 3/22/2006

Sample Identification				Strength Test Data				Classification Data						Other Data		
Boring No.	Depth (ft.)	Test Type	Description	Compressive Strength (tons/sq.ft.)	Lateral Pressure (psi.)	Vane Shear (tons/sq.ft.)	Type of Failure strain at Failure	Moisture Content (%)	Dry Density (lbs./cu.ft.)	Atterberg Limits						
										1 point			3 point			
										LL	PL	PI	LL	PL	PI	
17-2-1	1-3	U,1pt Att	Stiff brown slightly silty clay w/stone and gravel	1.46	-	-	Multi @ 8%	21.7	100.9	43	18	25	-	-	-	
17-2-2	4-6 top	U,3pt Att	Stiff dark gray organic clay to gray and tan clay w/ 1/2"-1" silt layers	1.31	-	-	Yield @ 10%	40.9	75	-	-	-	72	29	43	
	4-6 bott.	U,3pt Att	Medium gray clay with silt seams and layers 1/2"-1"	0.59	-	-	Multi @ 6.5%	27.1	88.7	-	-	-	70	26	44	
17-2-3	8-10 top	uu,consol, 1 & 3 pt Att, vane	Soft dark gray clay with silt seams and organics	0.26	4.13	.145/.005	Yield @ 10%	47.8	62.8	-	-	-	74	28	46	
	8-10 bott	uu,consol, 1 & 3 pt Att, vane	Soft dark gray clay with silt seams and organics	0.88	4.13	.45/.08	Yield @ 10%	47.8	70.7	65	29	36	65	26	39	
17-2-6	17-19 bott	uu,consol, 1 pt Att, vane	Medium dark gray organic clay w/ peat	0.75	10.63	.47/.05	Yield @ 10%	227.2	21.7	405	171	234	-	-	-	
	17-19 top	Vane	Medium dark gray organic clay w/ peat	-	-	.45/.04	-	-	-	-	-	-	-	-	-	
17-2-7	19.5-21.5	uu,consol, 3 pt Att, vane	Soft gray slightly silty clay	0.41	11.5	.28/.01	Yield @ 10%	38.3	82	-	-	-	38	20	18	
17-2-8	24-26	UU, 1pt ATT consol, vane	Soft gray clay w/ alt. Layers of fine sand and silt	0.41	14	.33/.02	Yield @ 10%	58.4	62.5	86	26	60	-	-	-	
17-2-9	30-32	UU, consol Vane	Soft gray clay with silt seams	0.35	18.2	.23/.01	Yield @ 10%	63.1	58.9	-	-	-	-	-	-	
17-6A-1	5-6	UU,1pt Att, Vane	Very soft dark gray to brown peat	0.15	3	.15/.03	Yield @ 10%	199.3	22.4	493	165	328	-	-	-	
	6-7	UU,1pt ATT, Vane	Very soft gray clay	0.13	3.83	.03/.005	Yield @ 10%	99.9	46.5	80	24	56	-	-	-	
17-1-1	14.5-15.0	UU, 1 pt Att	Very soft gray clay	0.11	8.85	-	Yield @ 10%	67	53.2	78	23	55	-	-	-	
	15.5-16	UU,1pt ATT consol,vane	Very soft gray clay with peat	0.15	8.85	.075/.03	Yield @ 10%	67.9	54	89	26	63	-	-	-	
17-1-2	17-19	U,Cu,1 pt Att, 3pt Att	Very soft gray clay with organics	0.09	10.6	-	Yield @ 10%	73.7	54.6	88	28	60	88	28	60	
17-1-3	22.5-24.5	UU,consol, 1pt Att,vane	Very soft gray clay	0.24	13.6	0.14/.025	Yield @ 10%	92.4	46.9	106	31	75	-	-	-	
17-1-4	26.5-28.5	UU,consol,Gss	Firm gray fine sand with clay streaks	2.63	15.94	-	Yield @ 10%	30.2	86.7	-	-	-	-	-	-	
17-3-3	9-10	UU,vane	Very soft gray silty clay w/wood & shell frags.	0.19	5.9	.065/.035	Yield @ 10%	38.1	81.2	-	-	-	-	-	-	
	10-11	UU,Vane	Very soft dark gray clay w/ wood & shell fragments	0.22	5.9	.025/.015	Yield @ 10%	41.8	77.1	-	-	-	-	-	-	
17-3-4	14-16	UU,consol	Very soft gray clay with silty clay layers	0.23	8.85	-	-	50.9	68.4	-	-	-	-	-	-	
17-3-5	20-22	UU,consol 3pt Att	Very soft gray clay	0.22	12.4	-	Yield @ 10%	67.8	57	-	-	-	78	27	51	
17-3-6	26-28	UU,1 pt Att	Very soft gray very sandy clay with shell	0.28	15.94	-	Yield @ 10%	26.9	83.3	43	13	30	-	-	-	
17-4-1	3-5	U,1&3pt Att	Stiff tan and brown clay with silt	1.29	-	-	Vertical @ 7.1%	22.3	102.1	33	18	15	34	18	16	
17-4-2	9-10 top	UU,1 pt Att	Medium gray clay with silt and fine sand alternating layers and traces of organic matter	0.65	5.9	-	Bulge @ 9%	35.2	81.5	42	19	23	-	-	-	
	10-11 bott	UU, 1pt Att	Medium gray clay with silt seams and wood	0.62	5.9	-	Yield @ 10%	34.1	84.3	39	20	19	-	-	-	
17-4-3	11.5-13.5	UU,hydro 1 pt Att	Soft gray and brown clay with peat and organics	0.49	7.5	-	Yield @ 10%	128.4	38.6	122	41	81	-	-	-	
17-4-4	14-15 top	UU,1pt Att Vane	Soft dark gray organic clay with peat	0.38	8.85	.085/.04	-	261.8	22.9	174	66	108	-	-	-	
	15-16 bott	UU,1pt Att Vane	Medium dark gray organic clay with peat	0.54	8.85	.335/.04	-	80.3	40.7	334	125	209	-	-	-	
17-4-7	21.5-23.5 top	UU,1pt ATT, Vane	Very soft gray clay	0.19	14.4	0.11/0.02	Yield @ 10%	78	53.4	115	25	90	-	-	-	

Legend: U = Unconfined compressive strength ASTM D2166 UU = Triaxial unconsolidated undrained compressive strength ASTM D2850

Att = Atterberg Limit determination ASTM D4318 Consol = Consolidation Astm D2435 vane = Miniature vane shear

Table D.1: Laboratory Testing Results (cont'd)

Project: New Orleans Levee Study

File No.: 06-1004

Date: 3/22/2006

Client: Independent Levee Investigation Team (ILIT)

Sample Identification				Strength Test Data				Classification Data								Other Data
Boring No.	Depth (ft.)	Test Type	Description	Compressive Strength (tons/sq.ft.)	Lateral Pressure (psi.)	Vane Shear (tsf.)	Type of Failure strain at Failure	Moisture Content (%)	Dry Density (lbs./cu.ft.)	Atterberg Limits						
										1 point			3 point			
										LL	PI	PI	LL	PL	PI	
17-4-7	22.5-23.5	UU,1pt Att, consol	Soft gray silty sandy to silty clay (alt. Layers)	0.57	14.4	-	Yield @ 10%	46.6	77.9	34	24	10	-	-	-	
17-4-8	25-27	UU, 1pt Att, Vane	Soft gray clay with alternating layers of silty fine sand	0.38	15.9	.10/.05	Yield @ 10%	65.8	59.7	72	24	48	-	-	-	
17-5-1	3-5	U,1pt Att	Very stiff tan and brown clay with silt	3.32	-		Vertical @ 7.4%	17.6	107.4	38	17	21	-	-	-	
17-5-6	22-24	UU,1pt Att, Vane	Very soft gray clay with silt lenses and wood	0.24	14.41	.125/.01	Yield @ 10%	77.7	54.2	95	27	68	-	-	-	
17-5-7	25-27	UU, consol, 1 pt Att, Vane	Soft gray clay w/ alternating seams of silty fine sand	0.36	16.71	.215/.04	Yield @ 10%	42.7	70.7	71	25	46	-	-	-	
LAC-1-1	3-4	UU,3pt Att,	Very soft gorganic clay	0.13	2.95	-	Yield @ 10%	123.8	38.7	-	-	-	97	26	71	
	5-6	UU,Hydro, 1pt Att, consol	Soft gray clay with fine sand	0.25	2.95	.22/.03	Yield @ 10%	47.7	78.2	37	15	22	-	-	-	
LAC-1-2	6-8	UU,1pt Att Vane	Very soft clay w/ 1/2" sand layer @ bottom	0.14	4.13	0.06/.005	Yield @ 10%	51.7	74.1	47	17	30	-	-	-	
LAC-1-3	8.5-9.5	UU,1pt Att consol, vane	Very soft gray sandy clay w/ wood & clay pockets	0.11	5.6	.005/0.0	Yield @ 10%	32.6	72.3	82	25	57	-	-	-	
	9.5-10	UU,Hydro	Firm gray fine sand with 2" clayey sand layer	0.29	5.6	-	Bulge @ 4%	30.2	90.2	-	-	-	-	-	-	
LAC-2-4	44-45	UU,1pt. Att	Medium gray clay with some silt	0.59	26.6	-	Yield @ 10%	86.5	54.5	84	24	60	-	-	-	
	45-46	UU, consol, 1 pt Att	Medium gray clay w/silt seams & shell frags.	0.65	26.6	-	Yield @ 10%	57.8	66.6	74	21	53	-	-	-	
LAC-3-3	7.5-8.5	UU, consol, 1 pt Att	Medium gray sandy clay to sand	0.53	4.3	-	Vertical @ 4%	21.8	103.3	19	18	1	-	-	-	
LAC-3-4	9-11	UU,3 pt Att, consol	Firm gray sand with clay	0.73	5.9	-	Bulge @ 7%	26.6	96.6	-	-	-	13	13	NP	
LACW-2-2	8.5-9.5	UU,1pt Att, Vane	Soft Dark gray organic clay with peat	0.26	4.3	0.08/0.01	Yield @ 10%	187	26.7	251	67	184	-	-	-	
	9.5-10.5	UU,1pt Att, Vane	Very Soft Dark gray organic clay with peat	0.23	4.3	0.07/0.01	Yield @ 10%	158	29.9	236	59	177	-	-	-	
LACW-2-4	13.5-15.5	Hydro	Firm gray silty fine sand	-	-	.055/.02	-	27.7	-	22	17	5	-	-	-	
LACW-3-4	10-12	UU,1pt Att, vane	Medium dark gray organic clay alternate layers of sand, silt and clay	0.56	6.49	0.26/.03	Yield @ 10%	48.1	76.4	40	16	24	-	-	-	
LACW-4-1	3.5-4.5	U, 1 pt Att	Stiff dark gray organic clay w/ roots	1.05	-	-	Vertical @ 9%	52.3	66.7	90	32	58	-	-	-	
LACW-4-3	7.5-8.5	U,1 pt Att	Medium gray organic clay w/ wood & peat	0.5	-	-	Vertical @ 7%	109.9	41.3	125	49	76	-	-	-	
	8.5-9.5	U,1 pt Att	Soft gray clay with peat & wood	0.34	-	-	Vertical @ 8%	125.1	37.5	92	46	46	-	-	-	

Legend: U = Unconfined compressive strength ASTM D2166 UU = Triaxial unconsolidated undrained compressive strength ASTM D2850 Att = Atterberg limit determination ASTM D4318 Consol = Consolidation test ASTM D2435 vane = Miniature vane shear

Table D.1: Laboratory Testing Results (cont'd)

Project: New Orleans Levee Study

File No.: 06-1004  
Date: 4/8/2006

Client: Independent Levee Investigation Team (ILIT)

Sample Identification				Strength Test Data				Classification Data						Other Data			
Boring No.	Depth (ft.)	Test Type	Description	Compressive Strength (tons/sq.ft.)	Lateral Pressure (kips/sq.ft.)	Vane Shear (kips/sq.ft.)	Type of Failure strain at Failure	Moisture Content (%)	Dry Density (lbs./cu.ft.)	Atterberg Limits							
										1 point			3 point				
									LL	PI	PI	LL	PL	PI			
LACS-1-2	5-7	1pt Att, vane	Soft gray clay with organics	-	-	0.45/.09	-	79.1	-	156	50	106	-	-	-	Sample ravaled while extruding	
LACS-1-3	8.5-10.5	UU,gss,Vane	Medium gray clay w/ fine sand @ bottom	0.62	4.2	.29/.03	Yield @ 10%	32.5	78.5	-	-	-	-	-	-		
LACS-3-1	5-7	UU,1pt Att Vane	Stiff gray clay	1.07	3.54	.49/.15	yield@10%	28.1	91.4	56	19	37	-	-	-		
LACS-3-2	7.5-9.5	UU,3pt Att, Vane	Soft gray clay	0.47	5	.28/.05	Bukgr @ 8%	50.3	66.2	-	-	-	116	29	87		
IHNCS-1-1	8-9	Vane	Medium gray clay	-	-	0.52/.03	-	-	-								
	7.5-9.5	UU,1pt Att Vane	Medium gray clay	0.85	4	0.35/.01	Yield @ 10%	62.8	62.7	101	31	70	-	-	-		
IHNCS-1-3	12-13	UU,1pt Att	Soft gray clay with wood	0.25	7.38	-	Yield @ 10%	94.9	46.2	129	29	100	-	-	-		
	13-14	UU,3pt Att vane,1pt Att	Soft gray clay with wood	0.27	7.96	0.15/.005	Yield @ 10%	94.5	44.1	138	34	104	139	35	104		
IHNCS-3-2	11.5-12.5	UU,1pt Att Vane	Very soft gray clay with peat	0.16	7.08	.025/0.0	Yield @ 10%	78.3	53.9	98	31	67	-	-	-		
	12.5-13.5	UU	Very soft gray clay	0.22	7.67	-	Yield @10%	57.2	64.5								
IHNCS-1-3	10-12	UU	Very soft gray & dark gray clay with peat	0.18	6.49	-	Yield @ 10%	67.9	58.1								

Legend: U = Unconfined compressive strength ASTM D2166 UU = Triaxial unconsolidated undrained compressive strength ASTM D2850  
Att = Atterberg Limit determination ASTM D4318 Consol = Consolidation ASTM D2435 Vane = Minature vane shear gss = Grain size sieve ASTM D422

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

Project Name: **Levee Study**  
 File No.: **06-1004**

Material : **Stiff brown slightly silty clay w/stone and gravel**  
 Boring No.: **17-2-1**  
 Depth (ft): **1-3**

Type of Failure: **Multi @ 8%**

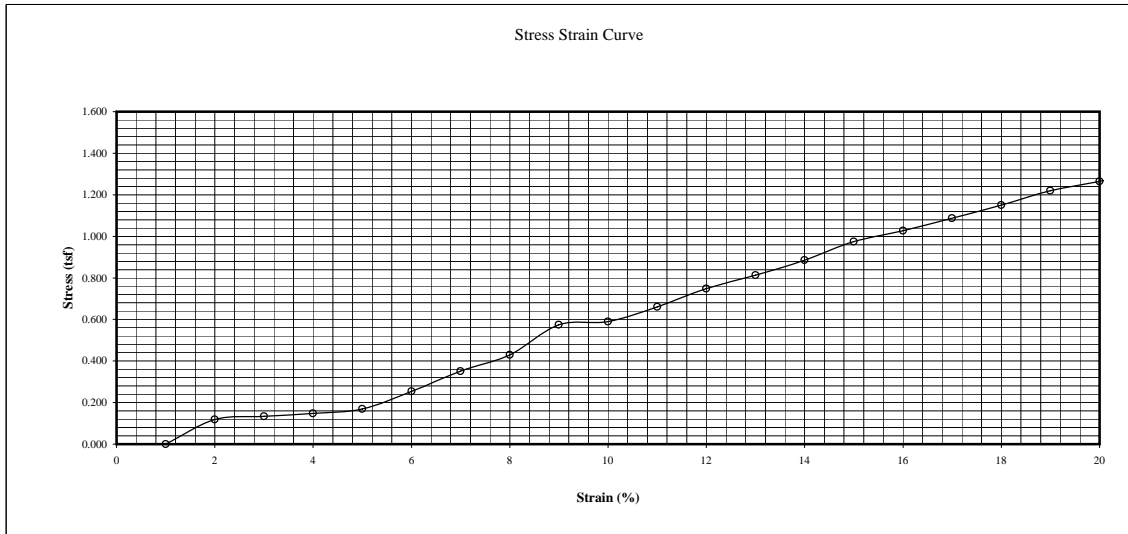
**Sample Data:**  
 Diameter (in.) = **2.875**  
 Height (in) = **5.8**  
 Weight (gm) = **1212.8**

Area (in<sup>2</sup>) = **6.492**  
 Moisture Content (%) = **21.66%**  
 Wet Density (pcf) = **122.7**  
 Dry Density (pcf) = **100.9**

Wet wt. = **173.86**  
 Dry wt. = **148.06**  
 Can wt. = **28.96**

**Test Data:**  
 Cell Pressure (psi) = **0.0**  
 Height Correction = **1.000**  
 Proving Ring No. = **9839**  
**0.337**

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	32	0.345	0.119
0.040	36	0.690	0.134
0.060	40	1.034	0.148
0.080	46	1.379	0.170
0.100	69	1.724	0.253
0.120	96	2.069	0.351
0.140	118	2.414	0.430
0.160	158	2.759	0.574
0.180	163	3.103	0.590
0.200	183	3.448	0.660
0.220	208	3.793	0.748
0.240	227	4.138	0.813
0.260	248	4.483	0.885
0.280	274	4.828	0.975
0.300	290	5.172	1.028
0.320	308	5.517	1.088
0.340	327	5.862	1.150
0.360	348	6.207	1.220
0.380	362	6.552	1.264
0.400	378	6.897	1.315
0.420	393	7.241	1.362
0.440	406	7.586	1.402
0.460	416	7.931	1.431
0.480	423	8.276	1.450
0.500	428	8.621	1.462
0.520	428	8.966	1.456
0.540			
0.560			
0.580			
0.600			



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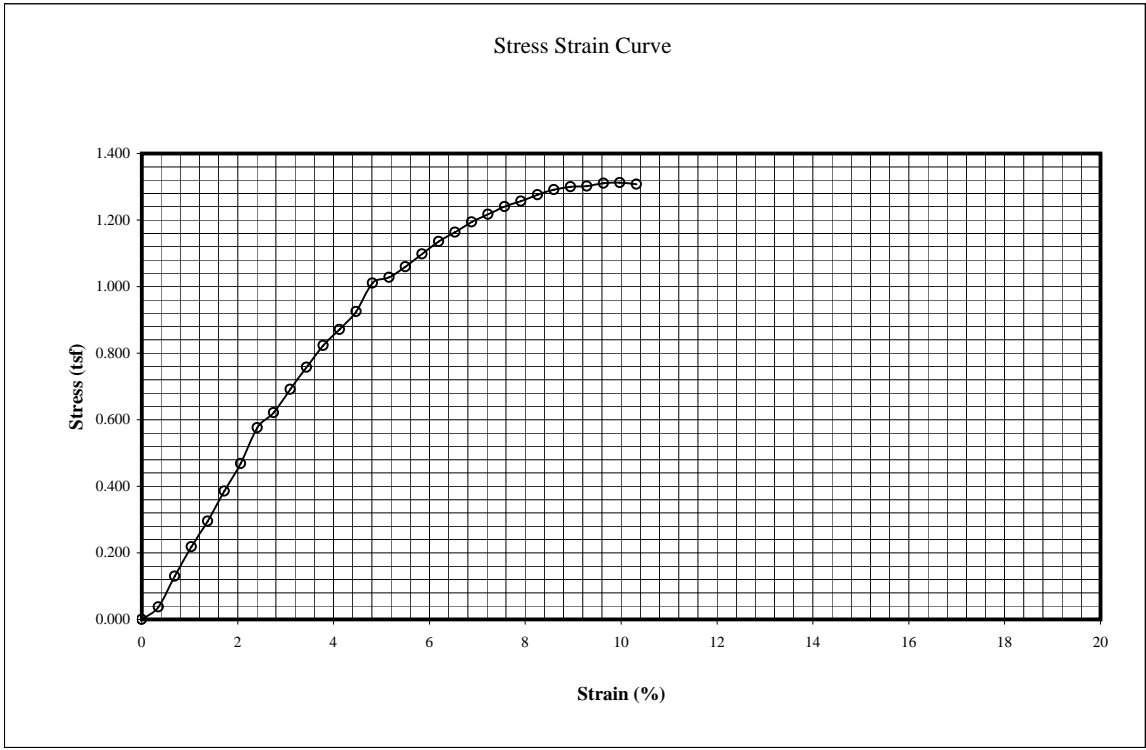
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Still dark gray organic clay to gray & tan clay w/1/2-1" silt layer  
**Boring No.:** 17-2-2  
**Depth (ft):** 4-6 top  
 Type of Failure: Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1046.9  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 40.88%  
 Wet Density (pcf) = 105.7  
 Dry Density (pcf) = 75.0  
**Wet wt.** 130.16  
**Dry wt.** 98.84  
**Can wt.** 22.22  
**Test Data:**  
 Cell Pressure (psi) = 0.0  
 Height Correction = 1.000  
 Proving Ring No. = 9839  
 0.337

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	10	0.344	0.037
0.040	35	0.688	0.130
0.060	59	1.032	0.218
0.080	80	1.376	0.295
0.100	105	1.720	0.386
0.120	128	2.064	0.469
0.140	158	2.408	0.576
0.160	171	2.752	0.622
0.180	191	3.096	0.692
0.200	210	3.440	0.758
0.220	229	3.784	0.824
0.240	243	4.128	0.871
0.260	259	4.472	0.925
0.280	284	4.816	1.010
0.300	290	5.160	1.028
0.320	300	5.504	1.060
0.340	312	5.848	1.098
0.360	324	6.192	1.136
0.380	333	6.536	1.163
0.400	343	6.880	1.194
0.420	351	7.224	1.217
0.440	359	7.568	1.240
0.460	365	7.912	1.256
0.480	372	8.256	1.276
0.500	378	8.600	1.291
0.520	382	8.944	1.300
0.540	384	9.288	1.302
0.560	388	9.632	1.311
0.580	390	9.976	1.312
0.600	390	10.320	1.307



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**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Medium gray clay w/ silt seams and layers 1/2-1"  
**Boring No.:** 17-2-2  
**Depth (ft):** 4-6 bot

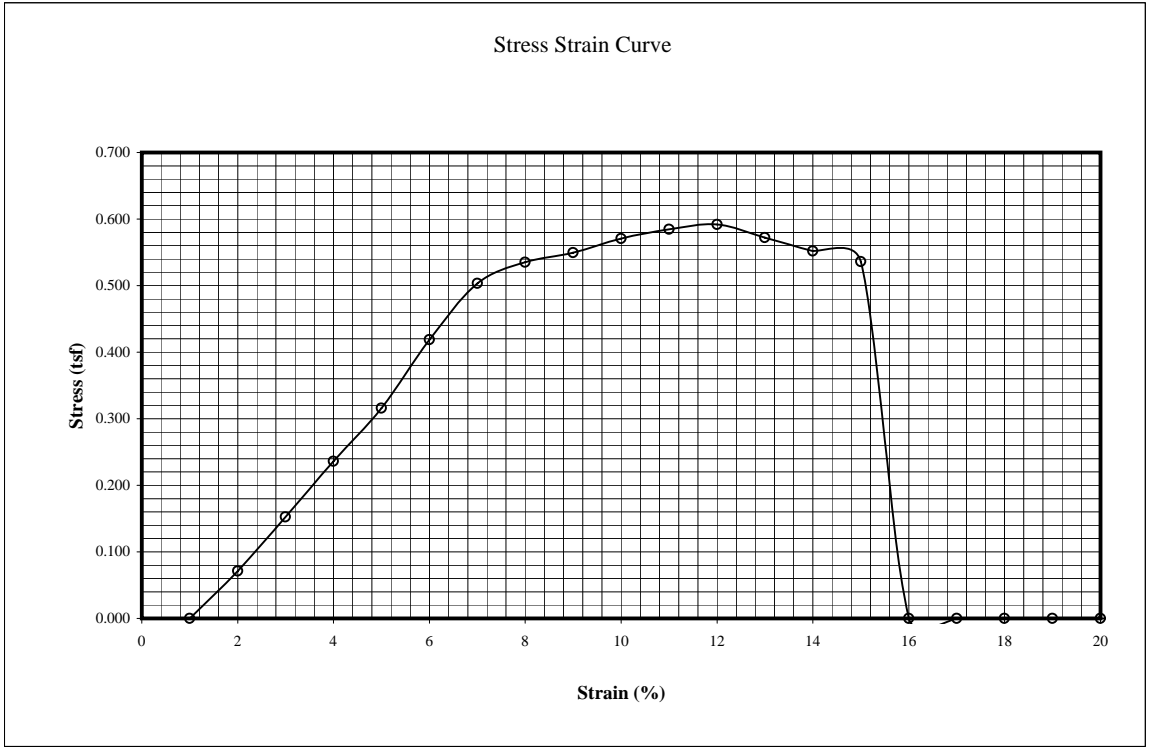
**Type of Failure:** Multi @ 6.5%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 4.0  
 Weight (gm) = 768.9

Wet wt. = 196.48  
 Dry wt. = 160.31  
 Moisture Content (%) = 27.14%  
 Can wt. = 27.02  
 Wet Density (pcf) = 112.8  
 Dry Density (pcf) = 88.7

**Test Data:**  
 Cell Pressure (psi) = 0.0  
 Height Correction = 0.957  
 Proving Ring No. = 9839  
 0.337

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	20	0.500	0.071
0.040	43	1.000	0.152
0.060	67	1.500	0.236
0.080	90	2.000	0.316
0.100	120	2.500	0.419
0.120	145	3.000	0.503
0.140	155	3.500	0.535
0.160	160	4.000	0.550
0.180	167	4.500	0.571
0.200	172	5.000	0.585
0.220	175	5.500	0.592
0.240	170	6.000	0.572
0.260	165	6.500	0.552
0.280	161	7.000	0.536
0.300			
0.320			
0.340			
0.360			
0.380			
0.400			
0.420			
0.440			
0.460			
0.480			
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



2.197729

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Soft dark gray clay with silt seams and organics  
**Boring No.:** 17-2-3  
**Depth (ft):** 8-10 top

Type of Failure: Yield @ 10%

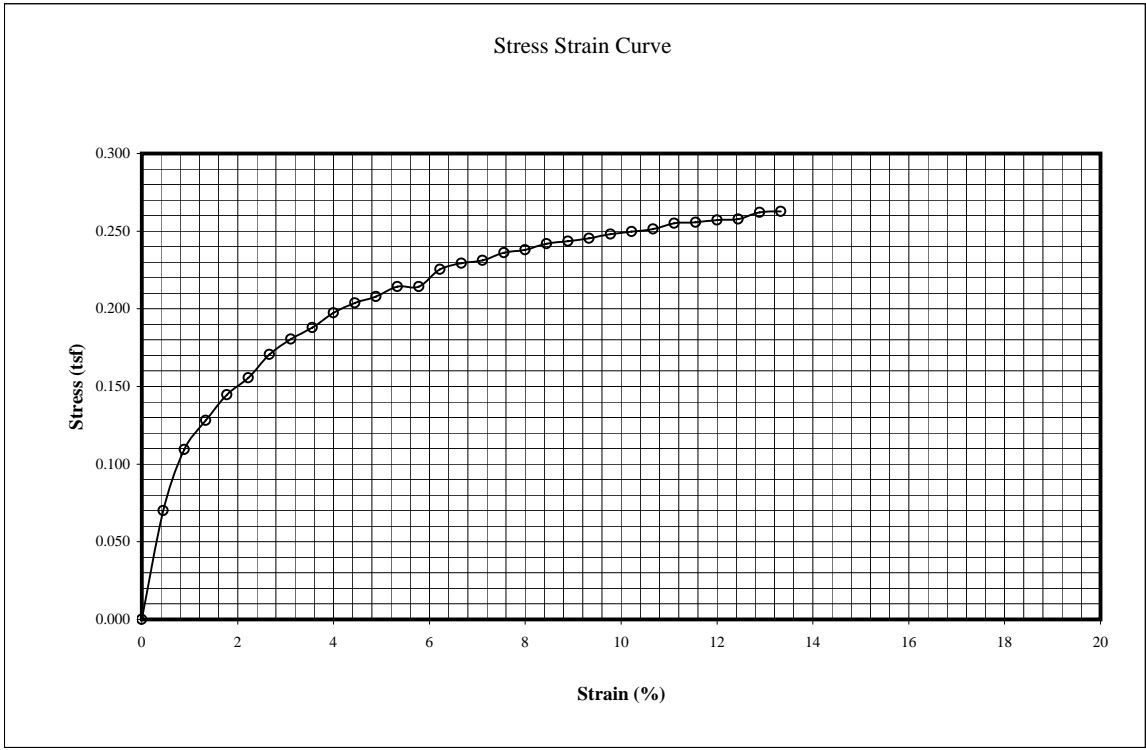
**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 4.5  
 Weight (gm) = 711.4

Wet wt. = 111.12  
 Dry at. = 83.88  
 Can wt. = 26.83

Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 47.75%  
 Wet Density (pcf) = 92.8  
 Dry Density (pcf) = 62.8

**Test Data:**  
 Cell Pressure (psi) = 4.1  
 Height Correction = 0.976  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	6.5	0.444	0.070
0.040	10.2	0.889	0.109
0.060	12.0	1.333	0.128
0.080	13.6	1.778	0.145
0.100	14.7	2.222	0.156
0.120	16.2	2.667	0.171
0.140	17.2	3.111	0.180
0.160	18.0	3.556	0.188
0.180	19.0	4.000	0.197
0.200	19.7	4.444	0.204
0.220	20.2	4.889	0.208
0.240	20.9	5.333	0.214
0.260	21.0	5.778	0.214
0.280	22.2	6.222	0.225
0.300	22.7	6.667	0.229
0.320	23.0	7.111	0.231
0.340	23.6	7.556	0.236
0.360	23.9	8.000	0.238
0.380	24.4	8.444	0.242
0.400	24.7	8.889	0.244
0.420	25.0	9.333	0.245
0.440	25.4	9.778	0.248
0.460	25.7	10.222	0.250
0.480	26.0	10.667	0.251
0.500	26.5	11.111	0.255
0.520	26.7	11.556	0.256
0.540	27.0	12.000	0.257
0.560	27.2	12.444	0.258
0.580	27.8	12.889	0.262
0.600	28.0	13.333	0.263



6.521451



**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Soft dark gray clay with silt seams and organics  
**Boring No.:** 17-2-3  
**Depth (ft):** 8-10 bot

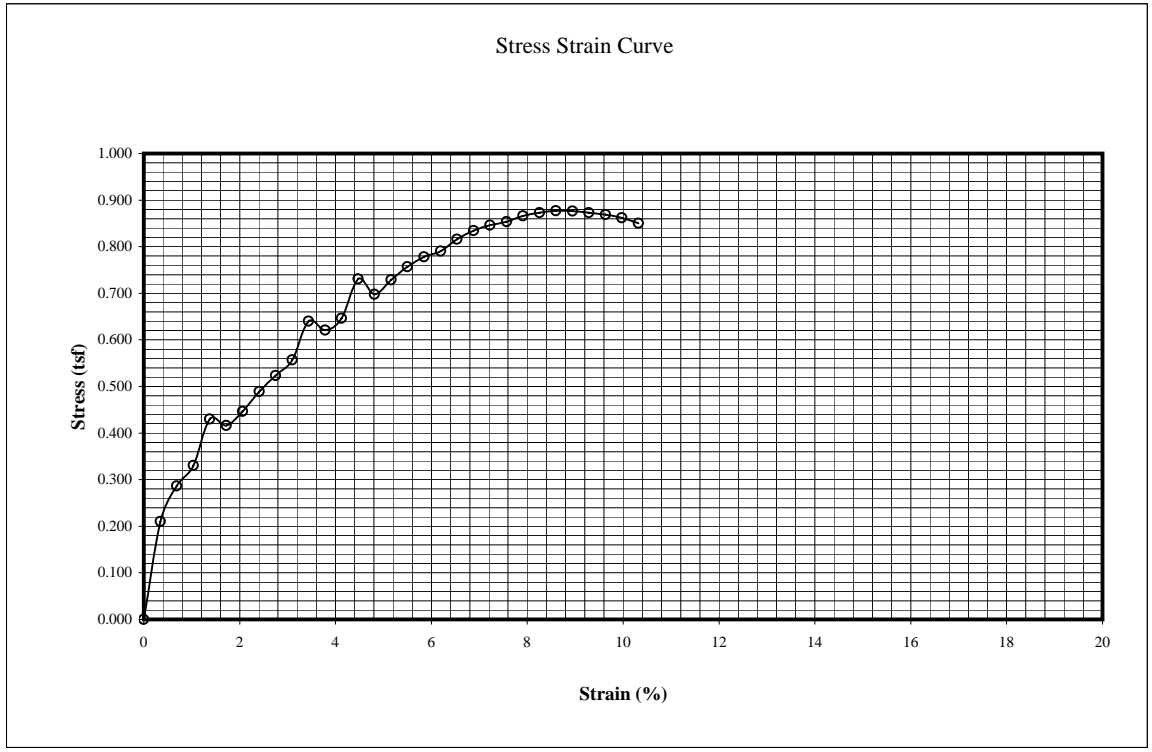
**Type of Failure:** Yeild @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1034.3

Wet wt. = 134.9  
 Dry at. = 98.05  
 Moisture Content (%) = 47.75%  
 Can wt. = 20.87  
 Wet Density (pcf) = 104.4  
 Dry Density (pcf) = 70.7

**Test Data:**  
 Cell Pressure (psi) = 4.1  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	19.0	0.344	0.210
0.040	26.0	0.688	0.286
0.060	30.1	1.032	0.330
0.080	39.3	1.376	0.430
0.100	38.2	1.720	0.416
0.120	41.1	2.064	0.446
0.140	45.2	2.408	0.489
0.160	48.5	2.752	0.523
0.180	51.8	3.096	0.557
0.200	59.8	3.440	0.640
0.220	58.2	3.784	0.621
0.240	60.8	4.128	0.646
0.260	69.0	4.472	0.731
0.280	66.1	4.816	0.698
0.300	69.3	5.160	0.729
0.320	72.2	5.504	0.757
0.340	74.5	5.848	0.778
0.360	76.0	6.192	0.791
0.380	78.7	6.536	0.816
0.400	80.8	6.880	0.834
0.420	82.2	7.224	0.846
0.440	83.3	7.568	0.854
0.460	84.8	7.912	0.866
0.480	85.8	8.256	0.873
0.500	86.5	8.600	0.877
0.520	86.8	8.944	0.877
0.540	86.8	9.288	0.873
0.560	86.7	9.632	0.869
0.580	86.3	9.976	0.862
0.600	85.5	10.320	0.850



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

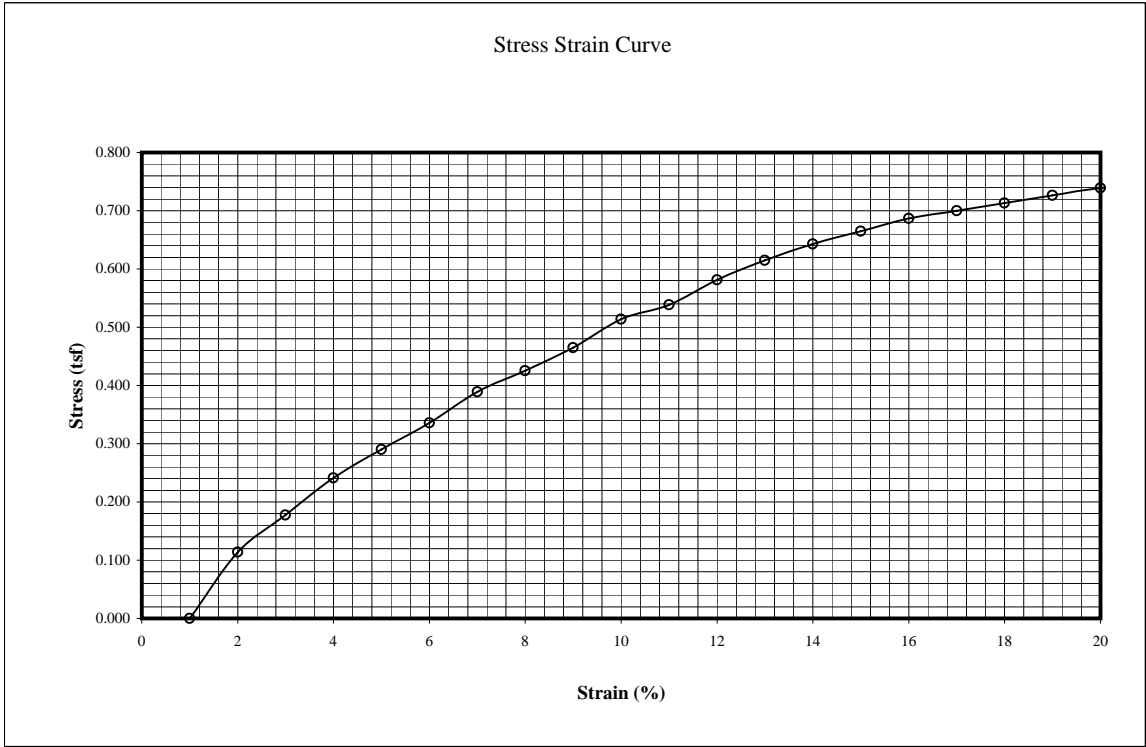
**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium dark gray organic clay w/peat  
**Boring No.:** 17-2-6  
**Depth (ft):** 17-19

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 702.4

**Test Data:**  
 Type of Failure: Yield @ 10%  
 Wet wt. = 89.54  
 Dry at. = 41.86  
 Moisture Content (%) = 227.16%  
 Can wt. = 20.87  
 Cell Pressure (psi) = 10.6  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 Dry Density (pcf) = 70.9  
 Dry Density (pcf) = 21.7

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	10.3	0.344	0.114
0.040	16.1	0.688	0.177
0.060	22.0	1.032	0.241
0.080	26.5	1.376	0.290
0.100	30.8	1.720	0.336
0.120	35.8	2.064	0.389
0.140	39.3	2.408	0.425
0.160	43.1	2.752	0.465
0.180	47.8	3.096	0.514
0.200	50.3	3.440	0.539
0.220	54.5	3.784	0.582
0.240	57.8	4.128	0.615
0.260	60.7	4.472	0.643
0.280	63.0	4.816	0.665
0.300	65.3	5.160	0.687
0.320	66.8	5.504	0.700
0.340	68.3	5.848	0.713
0.360	69.8	6.192	0.726
0.380	71.3	6.536	0.739
0.400	72.0	6.880	0.744
0.420	72.8	7.224	0.749
0.440	73.3	7.568	0.751
0.460	73.2	7.912	0.748
0.480	71.7	8.256	0.730
0.500	64.8	8.600	0.657
0.520	63.2	8.944	0.638
0.540	62.5	9.288	0.629
0.560	61.8	9.632	0.619
0.580	60.8	9.976	0.607
0.600			



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

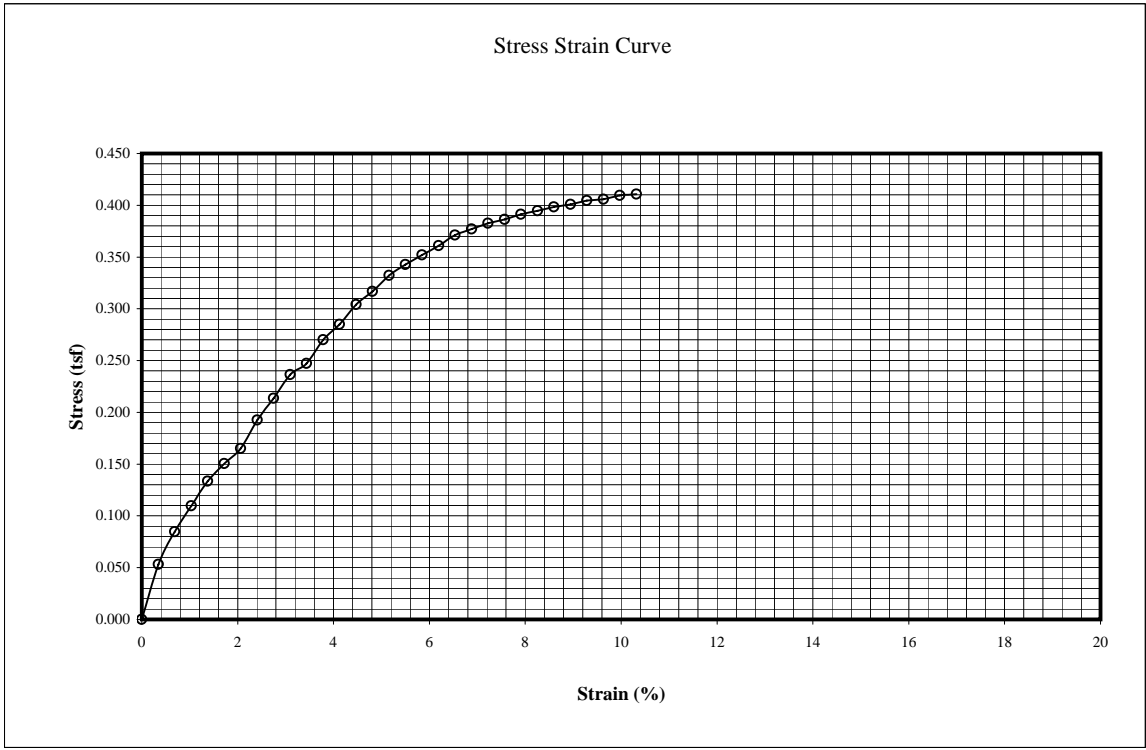
**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Soft gray slightly silty clay  
**Boring No.:** 17-2-7  
**Depth (ft):** 19.5-21.5

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 5.8  
 Weight (gm) = 1123.3

**Test Data:**  
 Type of Failure: Yield @10%  
 Wet wt. = 139.84  
 Dry wt. = 108.02  
 Moisture Content (%) = 38.34%  
 Can wt. = 25.02  
 Cell Pressure (psi) = 11.5  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 Dry Density (pcf) = 113.4  
 Dry Density (pcf) = 82.0

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	4.8	0.344	0.053
0.040	7.7	0.688	0.085
0.060	10.0	1.032	0.110
0.080	12.2	1.376	0.133
0.100	13.8	1.720	0.150
0.120	15.2	2.064	0.165
0.140	17.8	2.408	0.193
0.160	19.8	2.752	0.214
0.180	22.0	3.096	0.236
0.200	23.1	3.440	0.247
0.220	25.3	3.784	0.270
0.240	26.8	4.128	0.285
0.260	28.7	4.472	0.304
0.280	30.0	4.816	0.317
0.300	31.6	5.160	0.332
0.320	32.7	5.504	0.343
0.340	33.7	5.848	0.352
0.360	34.7	6.192	0.361
0.380	35.8	6.536	0.371
0.400	36.5	6.880	0.377
0.420	37.2	7.224	0.383
0.440	37.7	7.568	0.386
0.460	38.3	7.912	0.391
0.480	38.8	8.256	0.395
0.500	39.3	8.600	0.398
0.520	39.7	8.944	0.401
0.540	40.2	9.288	0.404
0.560	40.5	9.632	0.406
0.580	41.0	9.976	0.409
0.600	41.3	10.320	0.411



6.521451

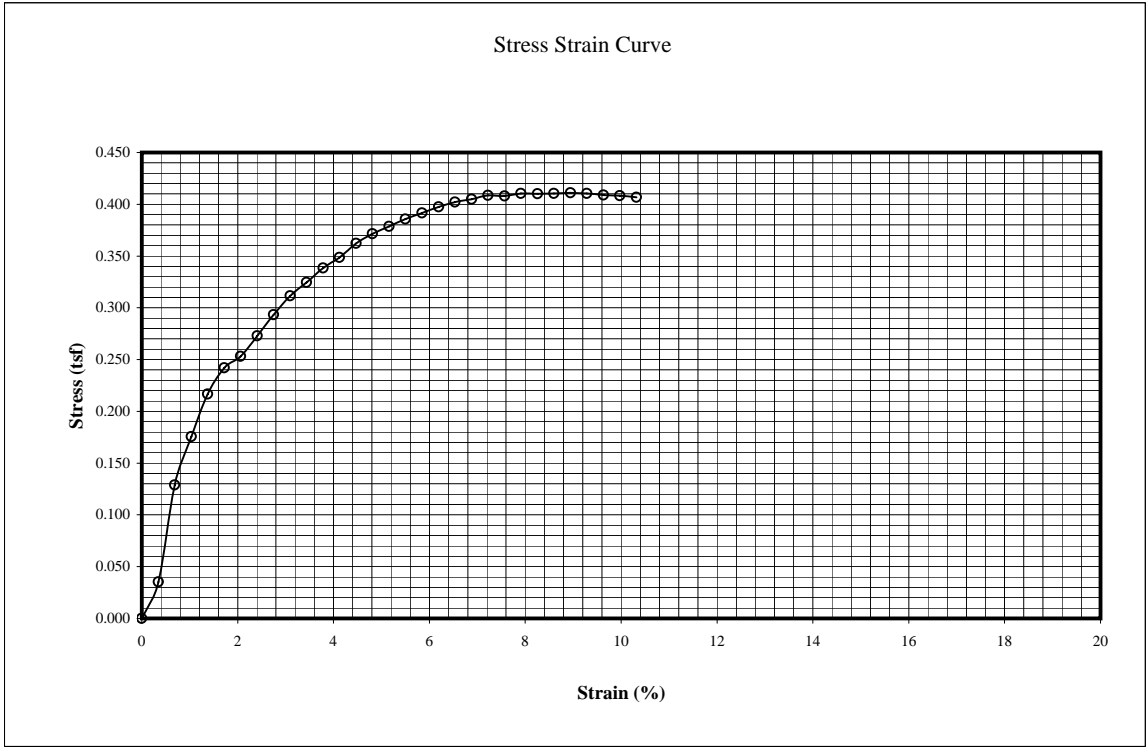
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Soft gray clay w/alt. Layers of fine sand & silt      **Type of Failure:** Yield @10%  
**Boring No.:** 17-2-8  
**Depth (ft):** 24-26

**Sample Data:**  
 Diameter (in.) = 2.875      Wet wt. = 183.45  
 Height (in) = 5.8      Area (in<sup>2</sup>) = 6.492      Dry wt. = 123.96  
 Weight (gm) = 980.3      Moisture Content (%) = 58.43%      Can wt. = 22.14  
 Wet Density (pcf) = 98.9      Cell Pressure (psi) = 14.0  
 Dry Density (pcf) = 62.5      Height Correction = 1.000  
 Proving Ring No. = 2011

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.2	0.344	0.035
0.040	11.7	0.688	0.129
0.060	16.0	1.032	0.176
0.080	19.8	1.376	0.217
0.100	22.2	1.720	0.242
0.120	23.3	2.064	0.253
0.140	25.2	2.408	0.273
0.160	27.2	2.752	0.293
0.180	29.0	3.096	0.312
0.200	30.3	3.440	0.324
0.220	31.7	3.784	0.338
0.240	32.8	4.128	0.349
0.260	34.2	4.472	0.362
0.280	35.2	4.816	0.372
0.300	36.0	5.160	0.379
0.320	36.8	5.504	0.386
0.340	37.5	5.848	0.392
0.360	38.2	6.192	0.397
0.380	38.8	6.536	0.402
0.400	39.2	6.880	0.405
0.420	39.7	7.224	0.409
0.440	39.8	7.568	0.408
0.460	40.2	7.912	0.411
0.480	40.3	8.256	0.410
0.500	40.5	8.600	0.411
0.520	40.7	8.944	0.411
0.540	40.8	9.288	0.410
0.560	40.8	9.632	0.409
0.580	40.9	9.976	0.408
0.600	40.9	10.320	0.407



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Soft gray clay with silt seams  
**Boring No.:** 17-2-9  
**Depth (ft):** 30-32

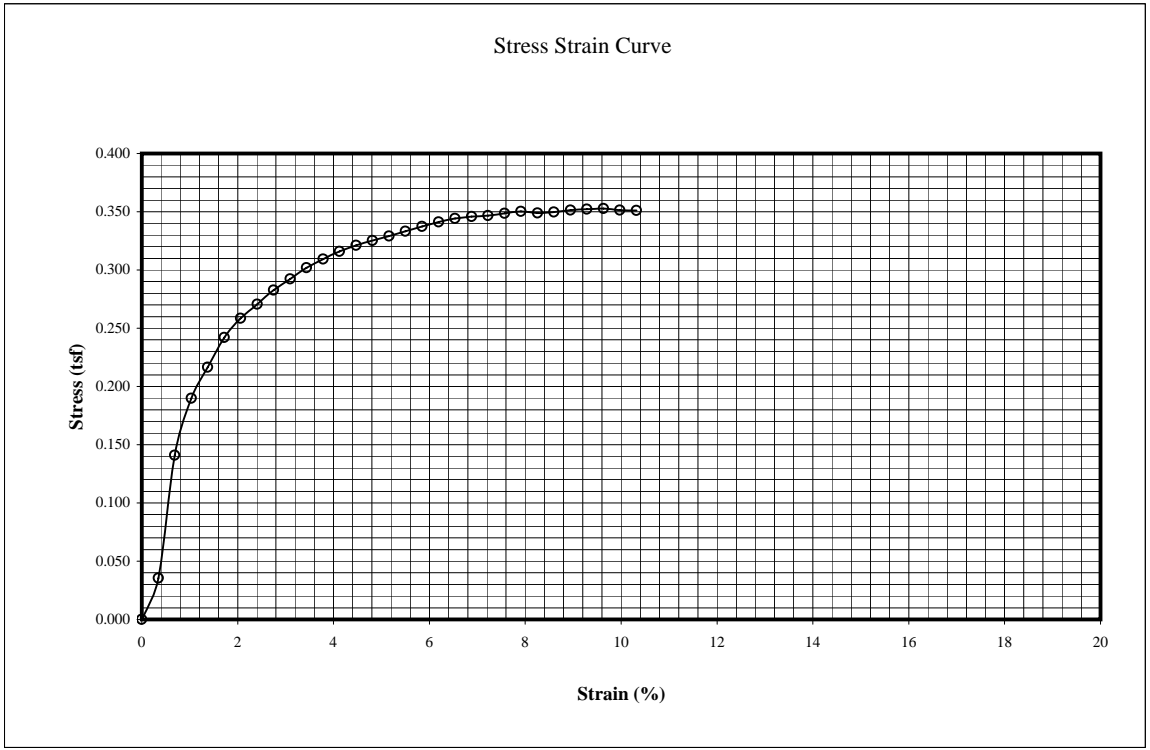
**Type of Failure:** Yield @10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 952.2

Wet wt. = 165.18  
 Dry at. = 112.45  
 Moisture Content (%) = 63.12%  
 Can wt. = 28.91  
 Wet Density (pcf) = 96.1  
 Dry Density (pcf) = 58.9

**Test Data:**  
 Cell Pressure (psi) = 18.2  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.2	0.344	0.035
0.040	12.8	0.688	0.141
0.060	17.3	1.032	0.190
0.080	19.8	1.376	0.217
0.100	22.2	1.720	0.242
0.120	23.8	2.064	0.259
0.140	25.0	2.408	0.271
0.160	26.2	2.752	0.283
0.180	27.2	3.096	0.292
0.200	28.2	3.440	0.302
0.220	29.0	3.784	0.309
0.240	29.7	4.128	0.316
0.260	30.3	4.472	0.321
0.280	30.8	4.816	0.325
0.300	31.3	5.160	0.329
0.320	31.8	5.504	0.333
0.340	32.3	5.848	0.337
0.360	32.8	6.192	0.341
0.380	33.2	6.536	0.344
0.400	33.5	6.880	0.346
0.420	33.7	7.224	0.347
0.440	34.0	7.568	0.349
0.460	34.3	7.912	0.350
0.480	34.3	8.256	0.349
0.500	34.5	8.600	0.350
0.520	34.8	8.944	0.351
0.540	35.0	9.288	0.352
0.560	35.2	9.632	0.353
0.580	35.2	9.976	0.351
0.600	35.3	10.320	0.351



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft dark gray to brown peat  
**Boring No.:** 17-6A-1  
**Depth (ft):** 5-6

Type of Failure: Yield @10%

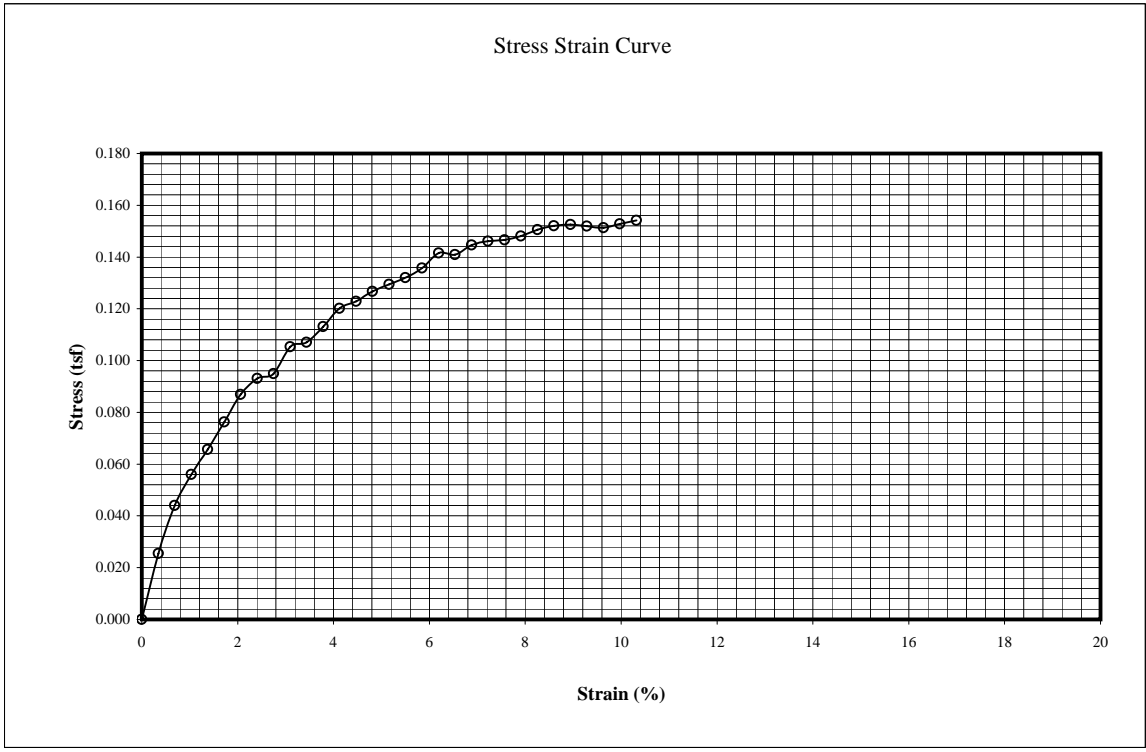
**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 662.9

Wet wt. = 141.12  
 Dry wt. = 65.16  
 Can wt. = 27.05

Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 199.32%  
 Wet Density (pcf) = 66.9  
 Dry Density (pcf) = 22.4

**Test Data:**  
 Cell Pressure (psi) = 3.0  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	2.3	0.344	0.025
0.040	4.0	0.688	0.044
0.060	5.1	1.032	0.056
0.080	6.0	1.376	0.066
0.100	7.0	1.720	0.076
0.120	8.0	2.064	0.087
0.140	8.6	2.408	0.093
0.160	8.8	2.752	0.095
0.180	9.8	3.096	0.105
0.200	10.0	3.440	0.107
0.220	10.6	3.784	0.113
0.240	11.3	4.128	0.120
0.260	11.6	4.472	0.123
0.280	12.0	4.816	0.127
0.300	12.3	5.160	0.129
0.320	12.6	5.504	0.132
0.340	13.0	5.848	0.136
0.360	13.6	6.192	0.141
0.380	13.6	6.536	0.141
0.400	14.0	6.880	0.145
0.420	14.2	7.224	0.146
0.440	14.3	7.568	0.147
0.460	14.5	7.912	0.148
0.480	14.8	8.256	0.151
0.500	15.0	8.600	0.152
0.520	15.1	8.944	0.152
0.540	15.1	9.288	0.152
0.560	15.1	9.632	0.151
0.580	15.3	9.976	0.153
0.600	15.5	10.320	0.154



6.521451

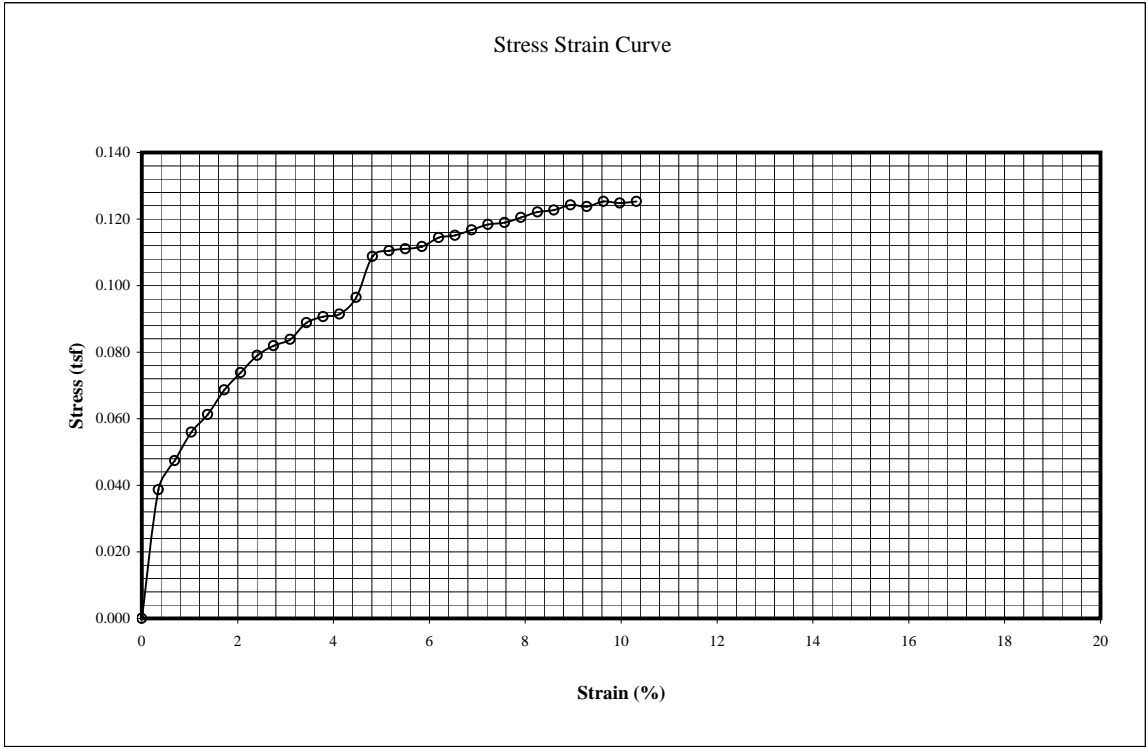
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray clay  
**Boring No.:** 17-6A-1  
**Depth (ft):** 6-7  
 Type of Failure: Yield @10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 5.8  
 Weight (gm) = 920.5  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 99.88%  
 Wet Density (pcf) = 92.9  
 Dry Density (pcf) = 46.5  
**Test Data:**  
 Wet wt. = 193.2  
 Dry wt. = 110.91  
 Can wt. = 28.52  
 Cell Pressure (psi) = 3.8  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.5	0.344	0.039
0.040	4.3	0.688	0.047
0.060	5.1	1.032	0.056
0.080	5.6	1.376	0.061
0.100	6.3	1.720	0.069
0.120	6.8	2.064	0.074
0.140	7.3	2.408	0.079
0.160	7.6	2.752	0.082
0.180	7.8	3.096	0.084
0.200	8.3	3.440	0.089
0.220	8.5	3.784	0.091
0.240	8.6	4.128	0.091
0.260	9.1	4.472	0.096
0.280	10.3	4.816	0.109
0.300	10.5	5.160	0.110
0.320	10.6	5.504	0.111
0.340	10.7	5.848	0.112
0.360	11.0	6.192	0.114
0.380	11.1	6.536	0.115
0.400	11.3	6.880	0.117
0.420	11.5	7.224	0.118
0.440	11.6	7.568	0.119
0.460	11.8	7.912	0.121
0.480	12.0	8.256	0.122
0.500	12.1	8.600	0.123
0.520	12.3	8.944	0.124
0.540	12.3	9.288	0.124
0.560	12.5	9.632	0.125
0.580	12.5	9.976	0.125
0.600	12.6	10.320	0.125



6.521451

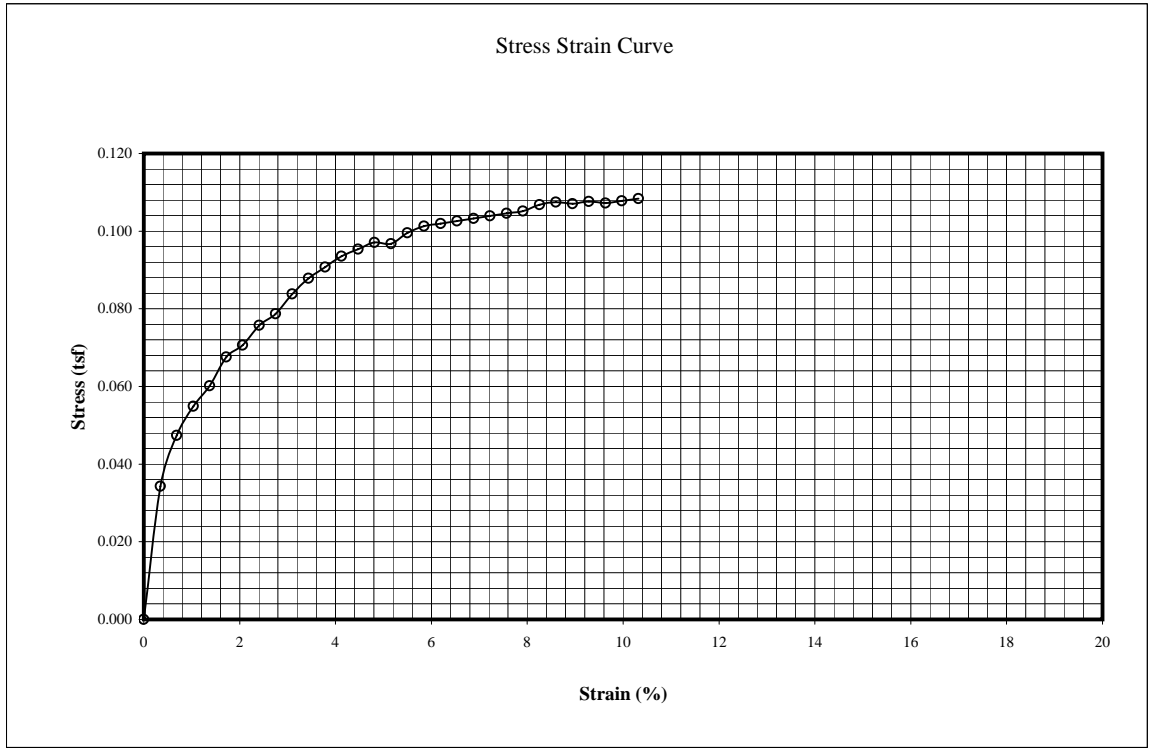
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray clay  
**Boring No.:** 17-1-1  
**Depth (ft):** 14.5-15  
 Type of Failure: Yield @10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 880.0  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 66.96%  
 Wet Density (pcf) = 88.8  
 Dry Density (pcf) = 53.2  
**Wet wt.** 212.49  
**Dry wt.** 136.12  
**Can wt.** 22.07  
**Test Data:**  
 Cell Pressure (psi) = 8.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.1	0.344	0.034
0.040	4.3	0.688	0.047
0.060	5.0	1.032	0.055
0.080	5.5	1.376	0.060
0.100	6.2	1.720	0.068
0.120	6.5	2.064	0.071
0.140	7.0	2.408	0.076
0.160	7.3	2.752	0.079
0.180	7.8	3.096	0.084
0.200	8.2	3.440	0.088
0.220	8.5	3.784	0.091
0.240	8.8	4.128	0.094
0.260	9.0	4.472	0.095
0.280	9.2	4.816	0.097
0.300	9.2	5.160	0.097
0.320	9.5	5.504	0.100
0.340	9.7	5.848	0.101
0.360	9.8	6.192	0.102
0.380	9.9	6.536	0.103
0.400	10.0	6.880	0.103
0.420	10.1	7.224	0.104
0.440	10.2	7.568	0.105
0.460	10.3	7.912	0.105
0.480	10.5	8.256	0.107
0.500	10.6	8.600	0.107
0.520	10.6	8.944	0.107
0.540	10.7	9.288	0.108
0.560	10.7	9.632	0.107
0.580	10.8	9.976	0.108
0.600	10.9	10.320	0.108



6.521451



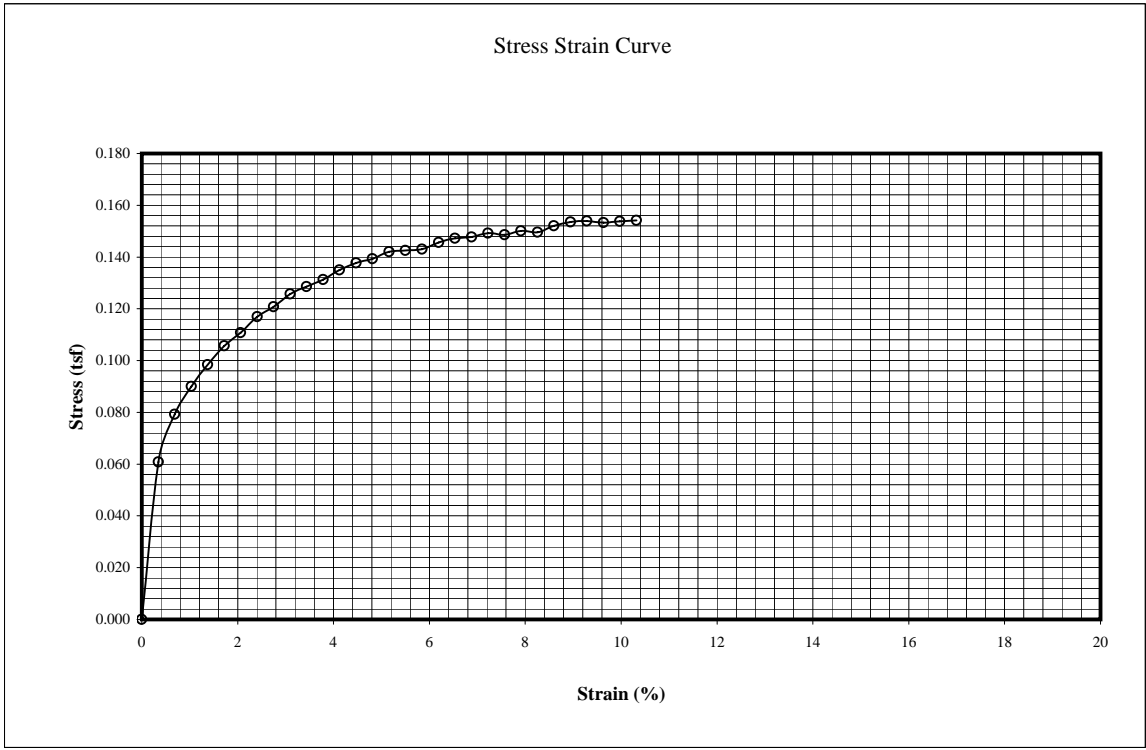
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray clay with peat  
**Boring No.:** 17-1-1  
**Depth (ft):** 15.5-16  
**Type of Failure:** Yield @10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 899.1  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 67.91%  
 Wet Density (pcf) = 90.8  
 Dry Density (pcf) = 54.0  
**Wet wt.** 240.13  
**Dry wt.** 154.52  
**Can wt.** 28.46  
**Test Data:**  
 Cell Pressure (psi) = 8.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	5.5	0.344	0.061
0.040	7.2	0.688	0.079
0.060	8.2	1.032	0.090
0.080	9.0	1.376	0.098
0.100	9.7	1.720	0.106
0.120	10.2	2.064	0.111
0.140	10.8	2.408	0.117
0.160	11.2	2.752	0.121
0.180	11.7	3.096	0.126
0.200	12.0	3.440	0.129
0.220	12.3	3.784	0.131
0.240	12.7	4.128	0.135
0.260	13.0	4.472	0.138
0.280	13.2	4.816	0.139
0.300	13.5	5.160	0.142
0.320	13.6	5.504	0.143
0.340	13.7	5.848	0.143
0.360	14.0	6.192	0.146
0.380	14.2	6.536	0.147
0.400	14.3	6.880	0.148
0.420	14.5	7.224	0.149
0.440	14.5	7.568	0.149
0.460	14.7	7.912	0.150
0.480	14.7	8.256	0.150
0.500	15.0	8.600	0.152
0.520	15.2	8.944	0.154
0.540	15.3	9.288	0.154
0.560	15.3	9.632	0.153
0.580	15.4	9.976	0.154
0.600	15.5	10.320	0.154



6.521451

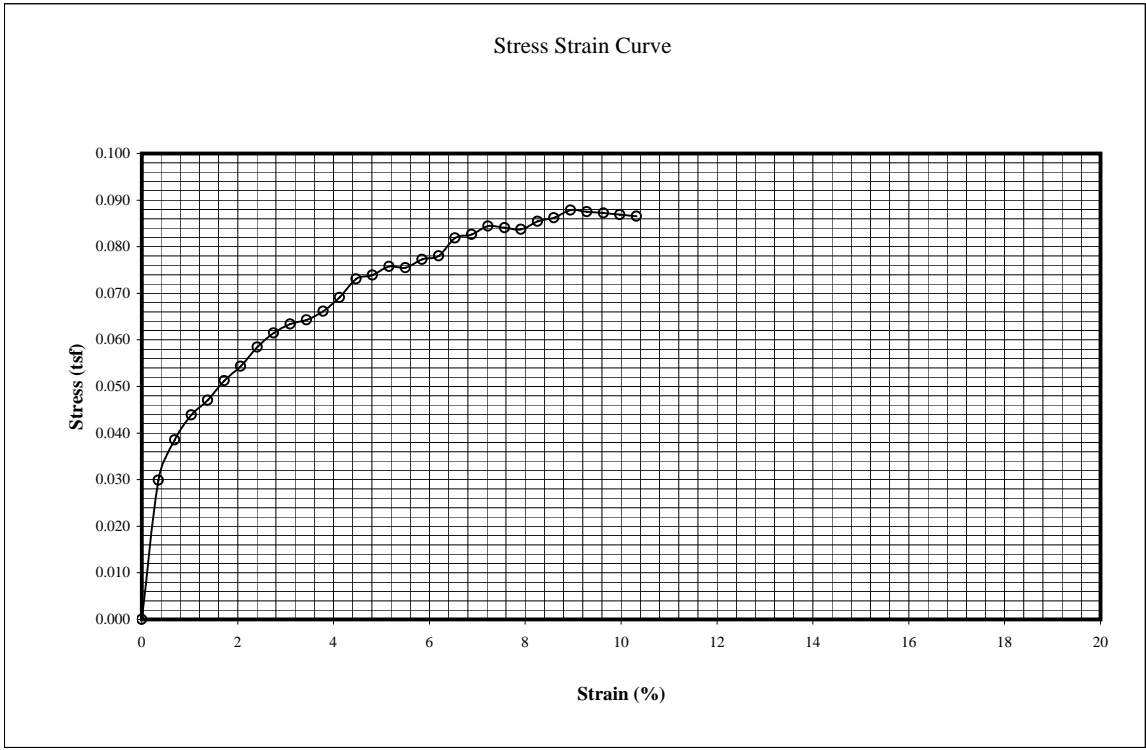
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray clay with organics  
**Boring No.:** 17-1-2  
**Depth (ft):** 17-19  
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 940.3  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 73.71%  
 Wet Density (pcf) = 94.9  
 Dry Density (pcf) = 54.6  
**Wet wt.** 116.16  
**Dry wt.** 77.49  
**Can wt.** 25.03  
**Test Data:**  
 Cell Pressure (psi) = 10.6  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	2.7	0.344	0.030
0.040	3.5	0.688	0.039
0.060	4.0	1.032	0.044
0.080	4.3	1.376	0.047
0.100	4.7	1.720	0.051
0.120	5.0	2.064	0.054
0.140	5.4	2.408	0.058
0.160	5.7	2.752	0.061
0.180	5.9	3.096	0.063
0.200	6.0	3.440	0.064
0.220	6.2	3.784	0.066
0.240	6.5	4.128	0.069
0.260	6.9	4.472	0.073
0.280	7.0	4.816	0.074
0.300	7.2	5.160	0.076
0.320	7.2	5.504	0.075
0.340	7.4	5.848	0.077
0.360	7.5	6.192	0.078
0.380	7.9	6.536	0.082
0.400	8.0	6.880	0.083
0.420	8.2	7.224	0.084
0.440	8.2	7.568	0.084
0.460	8.2	7.912	0.084
0.480	8.4	8.256	0.085
0.500	8.5	8.600	0.086
0.520	8.7	8.944	0.088
0.540	8.7	9.288	0.088
0.560	8.7	9.632	0.087
0.580	8.7	9.976	0.087
0.600	8.7	10.320	0.087



6.521451

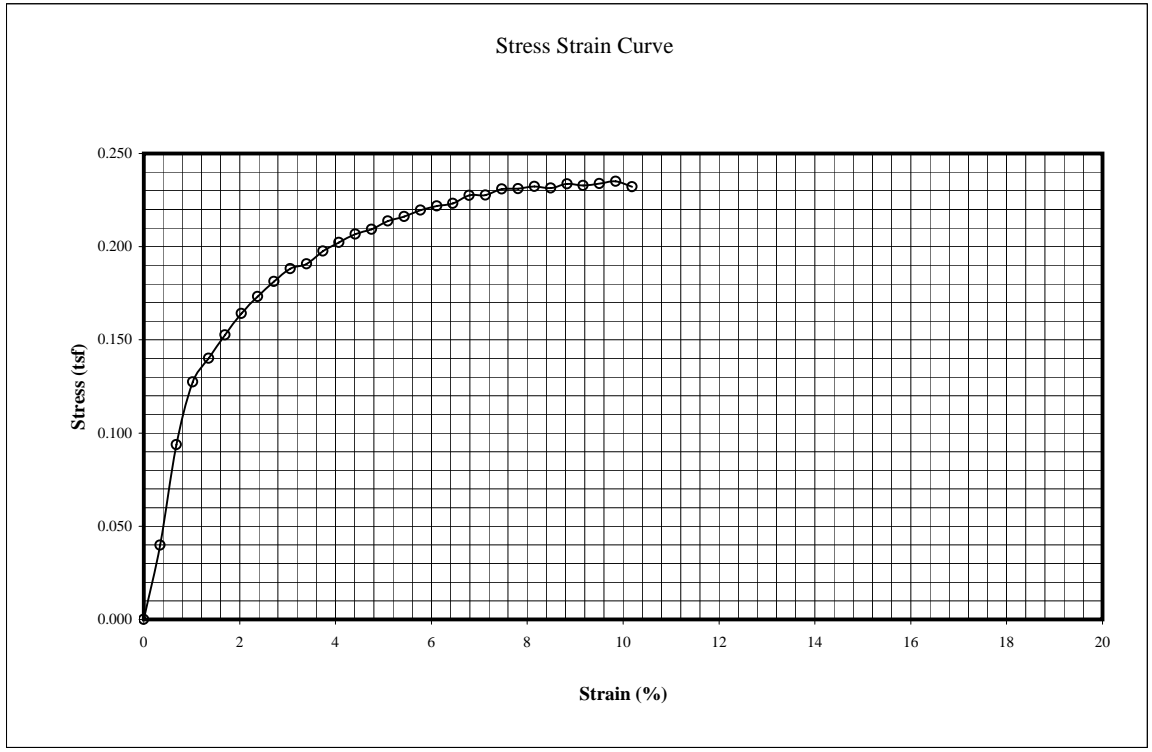
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray clay  
**Boring No.:** 17-1-3  
**Depth (ft):** 22.5-24.5  
 Type of Failure: Yield @10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 5.9  
 Weight (gm) = 906.2  
 Wet wt. = 104.96  
 Dry at. = 66.58  
 Moisture Content (%) = 92.37%  
 Can wt. = 25.03  
 Wet Density (pcf) = 90.3  
 Dry Density (pcf) = 46.9  
**Test Data:**  
 Cell Pressure (psi) = 13.6  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.6	0.340	0.040
0.040	8.5	0.679	0.094
0.060	11.6	1.019	0.127
0.080	12.8	1.358	0.140
0.100	14.0	1.698	0.153
0.120	15.1	2.037	0.164
0.140	16.0	2.377	0.173
0.160	16.8	2.716	0.181
0.180	17.5	3.056	0.188
0.200	17.8	3.396	0.191
0.220	18.5	3.735	0.198
0.240	19.0	4.075	0.202
0.260	19.5	4.414	0.207
0.280	19.8	4.754	0.209
0.300	20.3	5.093	0.214
0.320	20.6	5.433	0.216
0.340	21.0	5.772	0.220
0.360	21.3	6.112	0.222
0.380	21.5	6.452	0.223
0.400	22.0	6.791	0.228
0.420	22.1	7.131	0.228
0.440	22.5	7.470	0.231
0.460	22.6	7.810	0.231
0.480	22.8	8.149	0.232
0.500	22.8	8.489	0.231
0.520	23.1	8.829	0.234
0.540	23.1	9.168	0.233
0.560	23.3	9.508	0.234
0.580	23.5	9.847	0.235
0.600	23.3	10.187	0.232



6.521451

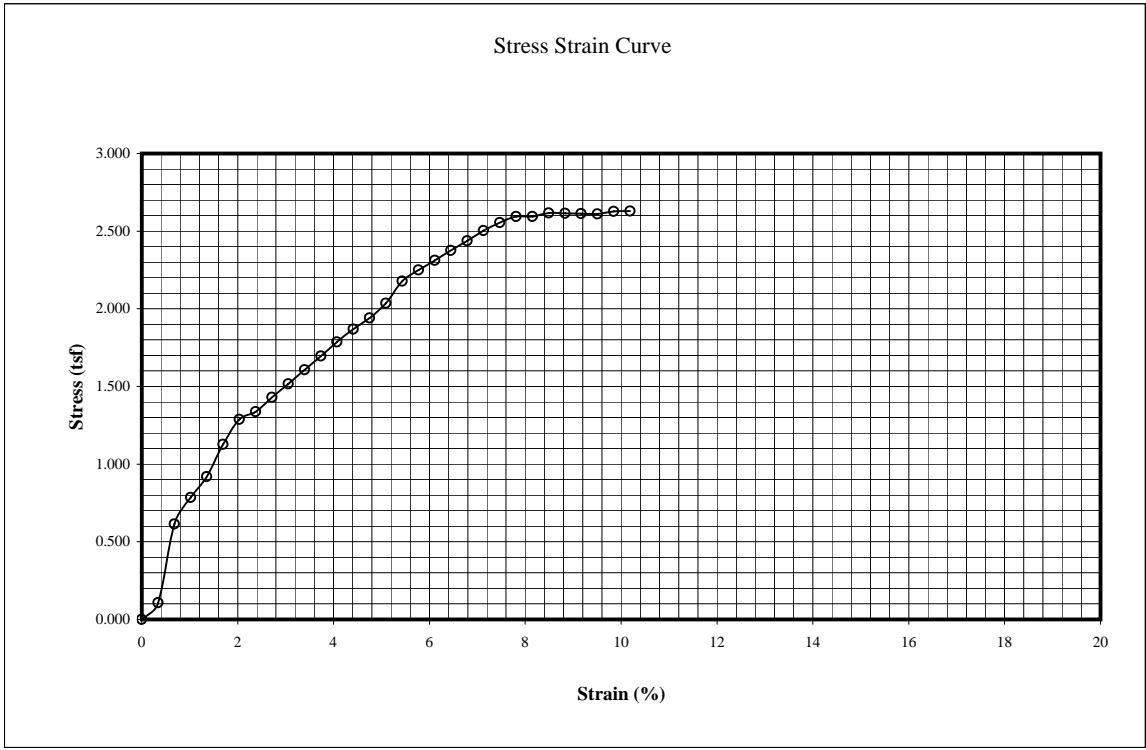
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Firm gray fine sand with clay streaks      **Type of Failure:** Yield @ 10%  
**Boring No.:** 17-1-4  
**Depth (ft):** 26.5-28.5

**Sample Data:**  
 Diameter (in.) = 2.875      Wet wt. = 200.08  
 Height (in) = 5.9      Area (in<sup>2</sup>) = 6.492      Dry wt. = 160.4  
 Weight (gm) = 1132.5      Moisture Content (%) = 30.20%      Can wt. = 28.99  
 Wet Density (pcf) = 112.8      **Test Data:**  
 Dry Density (pcf) = 86.7      Cell Pressure (psi) = 15.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	9.6	0.340	0.106
0.040	55.7	0.679	0.614
0.060	71.5	1.019	0.785
0.080	84.0	1.358	0.919
0.100	103.4	1.698	1.128
0.120	118.4	2.037	1.287
0.140	123.5	2.377	1.338
0.160	132.4	2.716	1.429
0.180	141.0	3.056	1.517
0.200	149.9	3.396	1.607
0.220	158.7	3.735	1.695
0.240	167.9	4.075	1.787
0.260	176.2	4.414	1.869
0.280	183.7	4.754	1.941
0.300	193.4	5.093	2.036
0.320	207.5	5.433	2.177
0.340	215.2	5.772	2.250
0.360	221.9	6.112	2.312
0.380	228.9	6.452	2.376
0.400	235.7	6.791	2.438
0.420	242.9	7.131	2.503
0.440	248.9	7.470	2.555
0.460	253.7	7.810	2.595
0.480	254.5	8.149	2.594
0.500	257.8	8.489	2.617
0.520	258.4	8.829	2.614
0.540	259.3	9.168	2.613
0.560	260.1	9.508	2.611
0.580	262.6	9.847	2.627
0.600	263.9	10.187	2.630



6.521451

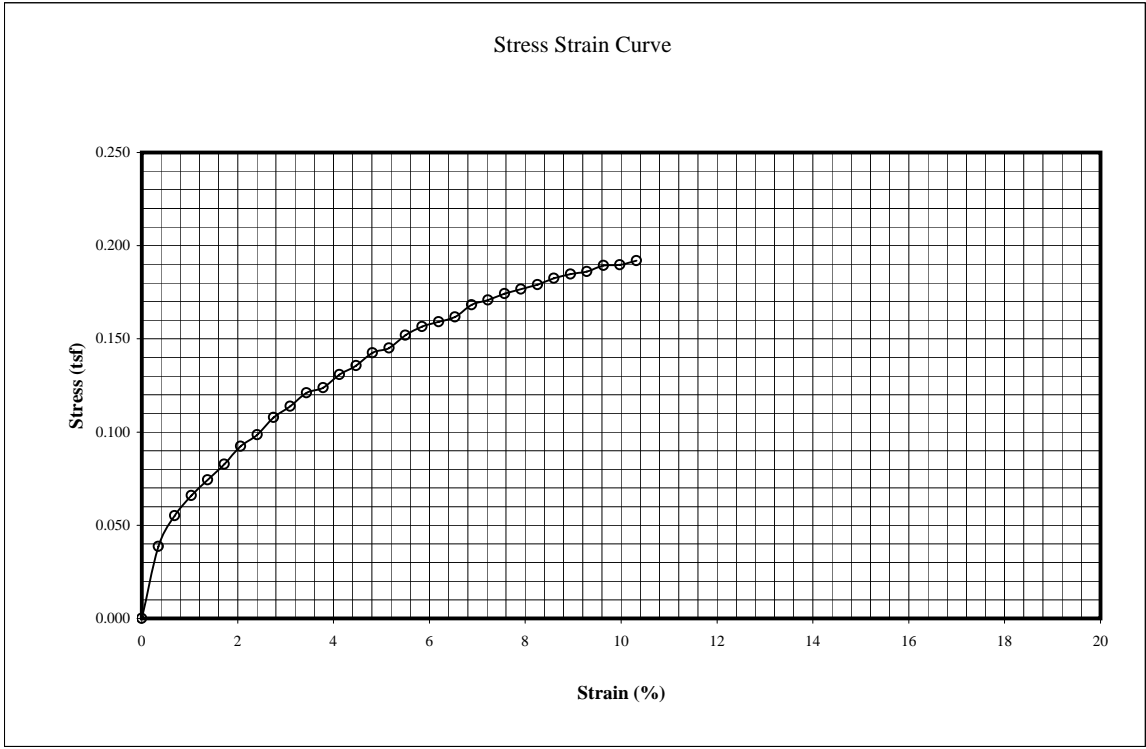
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray silty clay w/wood & shell fragments  
**Boring No.:** 17-3-3  
**Depth (ft):** 9-10  
 Type of Failure: Yield @10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1111.1  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 38.06%  
 Wet Density (pcf) = 112.1  
 Dry Density (pcf) = 81.2  
**Test Data:**  
 Wet wt. = 178.58  
 Dry at. = 134.4  
 Can wt. = 18.32  
 Cell Pressure (psi) = 5.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.5	0.344	0.039
0.040	5.0	0.688	0.055
0.060	6.0	1.032	0.066
0.080	6.8	1.376	0.074
0.100	7.6	1.720	0.083
0.120	8.5	2.064	0.092
0.140	9.1	2.408	0.098
0.160	10.0	2.752	0.108
0.180	10.6	3.096	0.114
0.200	11.3	3.440	0.121
0.220	11.6	3.784	0.124
0.240	12.3	4.128	0.131
0.260	12.8	4.472	0.136
0.280	13.5	4.816	0.143
0.300	13.8	5.160	0.145
0.320	14.5	5.504	0.152
0.340	15.0	5.848	0.157
0.360	15.3	6.192	0.159
0.380	15.6	6.536	0.162
0.400	16.3	6.880	0.168
0.420	16.6	7.224	0.171
0.440	17.0	7.568	0.174
0.460	17.3	7.912	0.177
0.480	17.6	8.256	0.179
0.500	18.0	8.600	0.182
0.520	18.3	8.944	0.185
0.540	18.5	9.288	0.186
0.560	18.9	9.632	0.189
0.580	19.0	9.976	0.190
0.600	19.3	10.320	0.192



6.521451

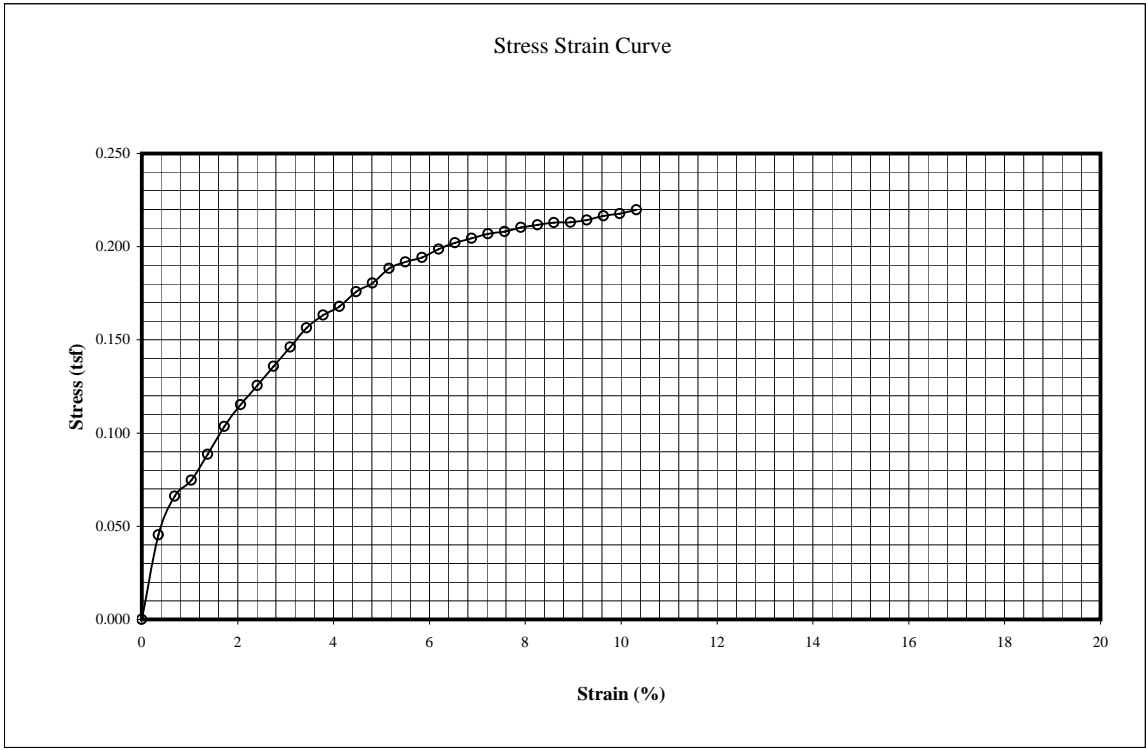
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft dark gray silty clay w/wood & shell fragments  
**Boring No.:** 17-3-3  
**Depth (ft):** 10-11  
 Type of Failure: Yield @10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1083.5  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 41.80%  
 Wet Density (pcf) = 109.4  
 Dry Density (pcf) = 77.1  
**Wet wt.** 191.49  
**Dry wt.** 141.25  
**Can wt.** 21.06  
**Test Data:**  
 Cell Pressure (psi) = 5.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	4.1	0.344	0.045
0.040	6.0	0.688	0.066
0.060	6.8	1.032	0.075
0.080	8.1	1.376	0.089
0.100	9.5	1.720	0.104
0.120	10.6	2.064	0.115
0.140	11.6	2.408	0.126
0.160	12.6	2.752	0.136
0.180	13.6	3.096	0.146
0.200	14.6	3.440	0.156
0.220	15.3	3.784	0.163
0.240	15.8	4.128	0.168
0.260	16.6	4.472	0.176
0.280	17.1	4.816	0.181
0.300	17.9	5.160	0.188
0.320	18.3	5.504	0.192
0.340	18.6	5.848	0.194
0.360	19.1	6.192	0.199
0.380	19.5	6.536	0.202
0.400	19.8	6.880	0.204
0.420	20.1	7.224	0.207
0.440	20.3	7.568	0.208
0.460	20.6	7.912	0.210
0.480	20.8	8.256	0.212
0.500	21.0	8.600	0.213
0.520	21.1	8.944	0.213
0.540	21.3	9.288	0.214
0.560	21.6	9.632	0.216
0.580	21.8	9.976	0.218
0.600	22.1	10.320	0.220



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Very soft gray clay with silty clay layers  
**Boring No.:** 17-3-4  
**Depth (ft):** 14-16

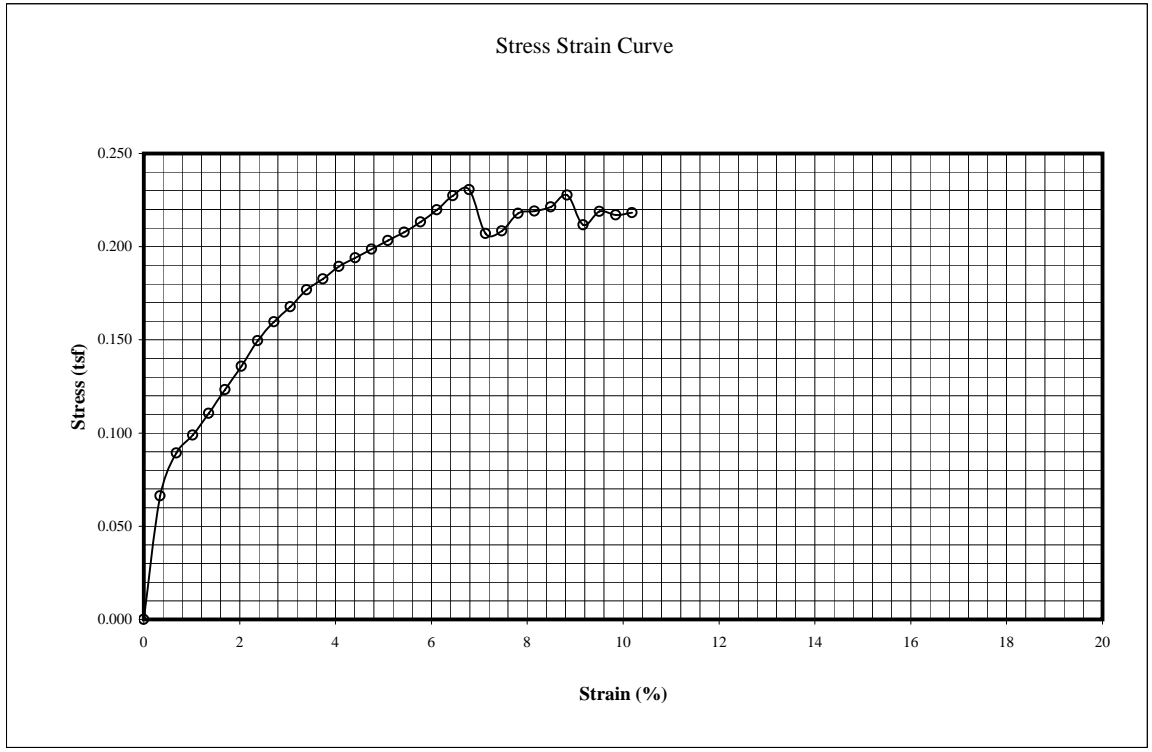
**Type of Failure:**

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.9  
 Weight (gm) = 1036.3

Wet wt. = 112.6  
 Dry wt. = 81.68  
 Moisture Content (%) = 50.88%  
 Can wt. = 20.91  
 Wet Density (pcf) = 103.2  
 Dry Density (pcf) = 68.4

**Test Data:**  
 Cell Pressure (psi) = 8.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	6.0	0.340	0.066
0.040	8.1	0.679	0.089
0.060	9.0	1.019	0.099
0.080	10.1	1.358	0.111
0.100	11.3	1.698	0.123
0.120	12.5	2.037	0.136
0.140	13.8	2.377	0.149
0.160	14.8	2.716	0.160
0.180	15.6	3.056	0.168
0.200	16.5	3.396	0.177
0.220	17.1	3.735	0.183
0.240	17.8	4.075	0.189
0.260	18.3	4.414	0.194
0.280	18.8	4.754	0.199
0.300	19.3	5.093	0.203
0.320	19.8	5.433	0.208
0.340	20.4	5.772	0.213
0.360	21.1	6.112	0.220
0.380	21.9	6.452	0.227
0.400	22.3	6.791	0.231
0.420	20.1	7.131	0.207
0.440	20.3	7.470	0.208
0.460	21.3	7.810	0.218
0.480	21.5	8.149	0.219
0.500	21.8	8.489	0.221
0.520	22.5	8.829	0.228
0.540	21.0	9.168	0.212
0.560	21.8	9.508	0.219
0.580	21.7	9.847	0.217
0.600	21.9	10.187	0.218



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Very soft gray clay  
**Boring No.:** 17-3-5  
**Depth (ft):** 20-22

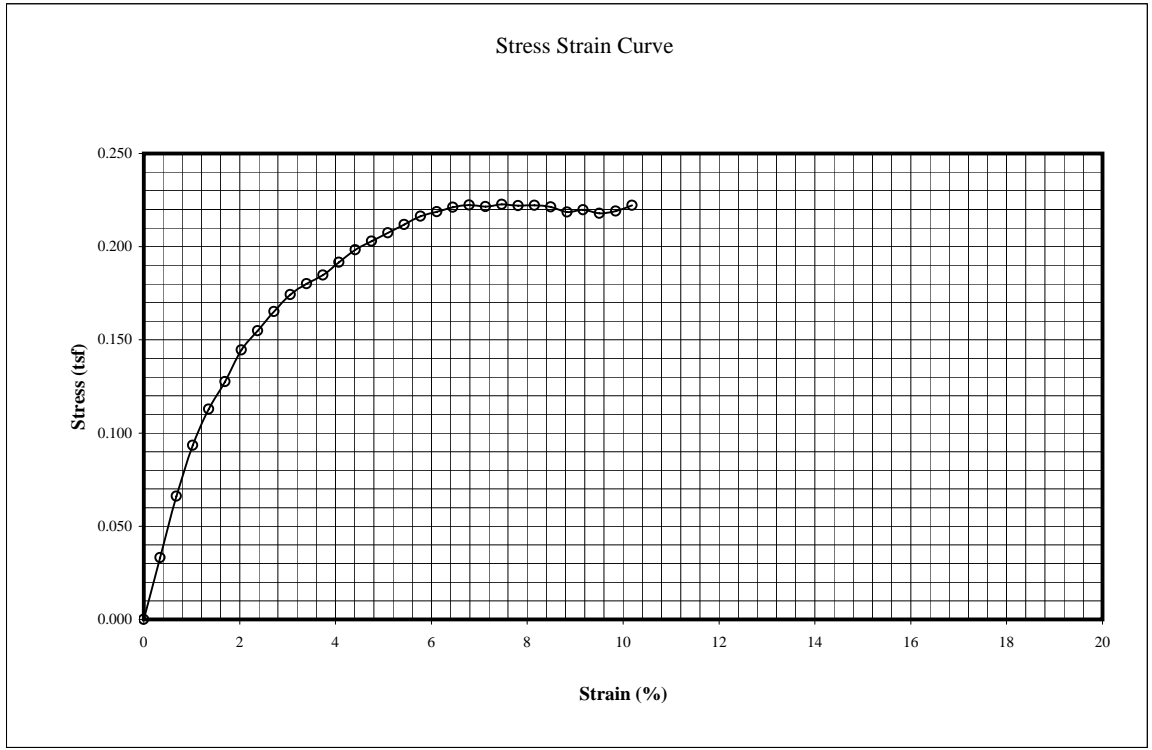
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.9  
 Weight (gm) = 960.6

Wet wt. = 146.08  
 Dry at. = 96.04  
 Moisture Content (%) = 67.79%  
 Can wt. = 22.22  
 Wet Density (pcf) = 95.7  
 Dry Density (pcf) = 57.0

**Test Data:**  
 Cell Pressure (psi) = 12.4  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.0	0.340	0.033
0.040	6.0	0.679	0.066
0.060	8.5	1.019	0.093
0.080	10.3	1.358	0.113
0.100	11.7	1.698	0.128
0.120	13.3	2.037	0.145
0.140	14.3	2.377	0.155
0.160	15.3	2.716	0.165
0.180	16.2	3.056	0.174
0.200	16.8	3.396	0.180
0.220	17.3	3.735	0.185
0.240	18.0	4.075	0.192
0.260	18.7	4.414	0.198
0.280	19.2	4.754	0.203
0.300	19.7	5.093	0.207
0.320	20.2	5.433	0.212
0.340	20.7	5.772	0.216
0.360	21.0	6.112	0.219
0.380	21.3	6.452	0.221
0.400	21.5	6.791	0.222
0.420	21.5	7.131	0.222
0.440	21.7	7.470	0.223
0.460	21.7	7.810	0.222
0.480	21.8	8.149	0.222
0.500	21.8	8.489	0.221
0.520	21.6	8.829	0.218
0.540	21.8	9.168	0.220
0.560	21.7	9.508	0.218
0.580	21.9	9.847	0.219
0.600	22.3	10.187	0.222



6.521451



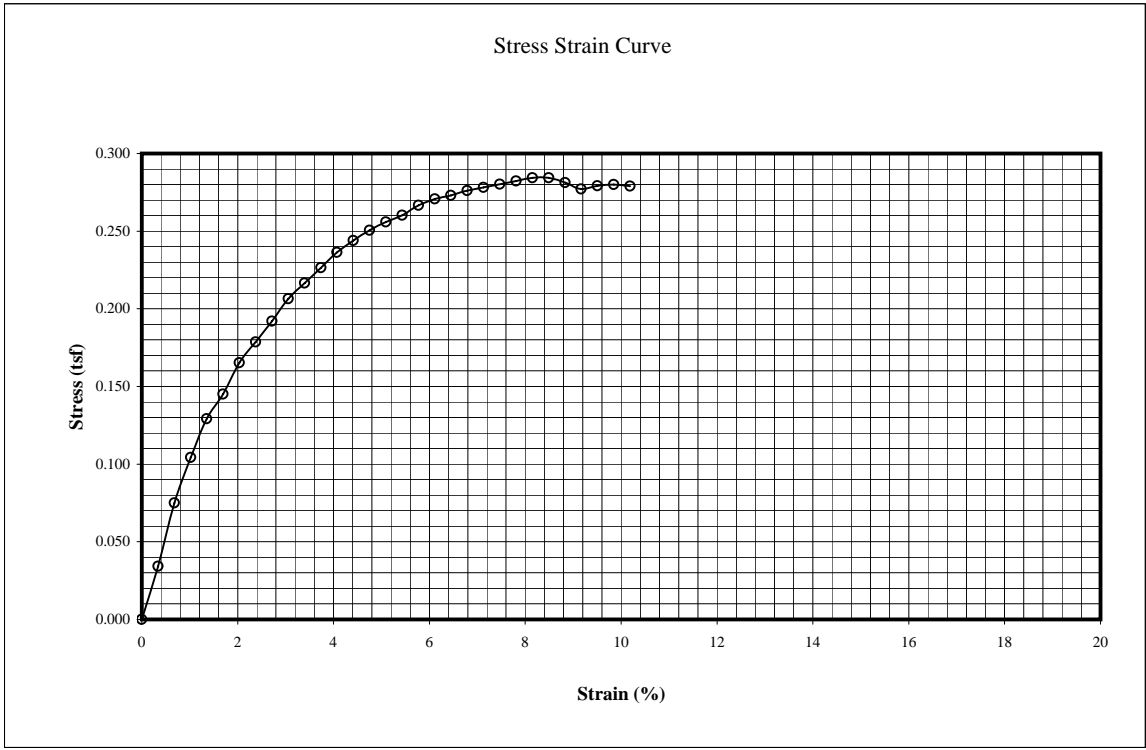
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray very sandy clay with shell  
**Boring No.:** 17-3-6  
**Depth (ft):** 26-28  
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.9  
 Weight (gm) = 1060.3  
 Wet wt. = 153.77  
 Dry wt. = 126.81  
 Moisture Content (%) = 26.88%  
 Can wt. = 26.52  
 Wet Density (pcf) = 105.6  
 Dry Density (pcf) = 83.3  
**Test Data:**  
 Cell Pressure (psi) = 15.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.1	0.340	0.034
0.040	6.8	0.679	0.075
0.060	9.5	1.019	0.104
0.080	11.8	1.358	0.129
0.100	13.3	1.698	0.145
0.120	15.2	2.037	0.165
0.140	16.5	2.377	0.179
0.160	17.8	2.716	0.192
0.180	19.2	3.056	0.207
0.200	20.2	3.396	0.217
0.220	21.2	3.735	0.226
0.240	22.2	4.075	0.236
0.260	23.0	4.414	0.244
0.280	23.7	4.754	0.250
0.300	24.3	5.093	0.256
0.320	24.8	5.433	0.260
0.340	25.5	5.772	0.267
0.360	26.0	6.112	0.271
0.380	26.3	6.452	0.273
0.400	26.7	6.791	0.276
0.420	27.0	7.131	0.278
0.440	27.3	7.470	0.280
0.460	27.6	7.810	0.282
0.480	27.9	8.149	0.284
0.500	28.0	8.489	0.284
0.520	27.8	8.829	0.281
0.540	27.5	9.168	0.277
0.560	27.8	9.508	0.279
0.580	28.0	9.847	0.280
0.600	28.0	10.187	0.279



6.521451

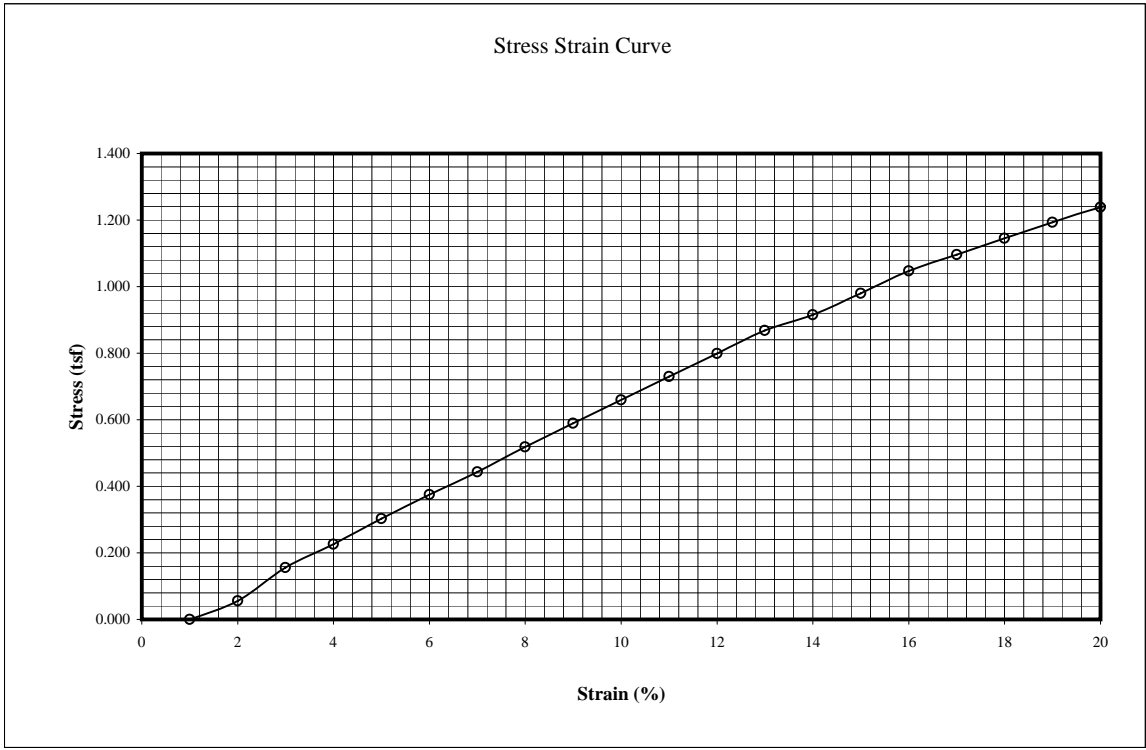
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Stiff tan and brown clay with silt  
**Boring No.:** 17-4-1  
**Depth (ft):** 3-5  
**Type of Failure:** Vertical @ 7.1%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.9  
 Weight (gm) = 1253.1  
 Wet wt. = 194.78  
 Dry at. = 164.15  
 Can wt. = 26.47  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 22.25%  
 Wet Density (pcf) = 124.8  
 Dry Density (pcf) = 102.1  
**Test Data:**  
 Cell Pressure (psi) =  
 Height Correction = 1.000  
 Proving Ring No. = 9839  
 0.337

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	15	0.340	0.056
0.040	42	0.679	0.156
0.060	61	1.019	0.226
0.080	82	1.358	0.302
0.100	102	1.698	0.375
0.120	121	2.037	0.443
0.140	142	2.377	0.518
0.160	162	2.716	0.589
0.180	182	3.056	0.660
0.200	202	3.396	0.730
0.220	222	3.735	0.799
0.240	242	4.075	0.868
0.260	256	4.414	0.915
0.280	275	4.754	0.979
0.300	295	5.093	1.047
0.320	310	5.433	1.096
0.340	325	5.772	1.145
0.360	340	6.112	1.194
0.380	354	6.452	1.238
0.400	364	6.791	1.269
0.420	372	7.131	1.292
0.440	372	7.470	1.287
0.460			
0.480			
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



2.197729

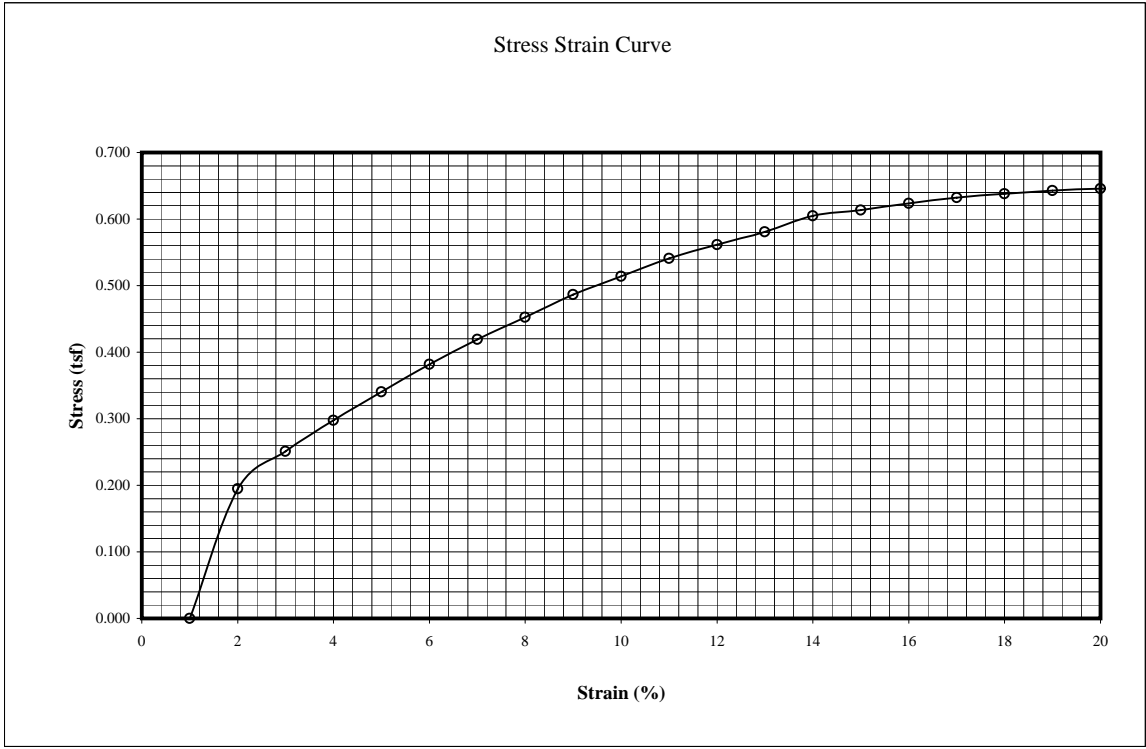
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Med gray clay w/silt & fine sand alt layers & traces of organic matter  
**Boring No.:** 17-4-2  
**Depth (ft):** 9-10  
 Type of Failure: Bulge @ 9%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1091.2  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 35.17%  
 Wet Density (pcf) = 110.1  
 Dry Density (pcf) = 81.5  
**Test Data:**  
 Wet wt. = 147.97  
 Dry wt. = 115.26  
 Can wt. = 22.25  
 Cell Pressure (psi) = 5.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	17.6	0.344	0.195
0.040	22.8	0.688	0.251
0.060	27.1	1.032	0.297
0.080	31.1	1.376	0.340
0.100	35.0	1.720	0.382
0.120	38.6	2.064	0.419
0.140	41.8	2.408	0.452
0.160	45.1	2.752	0.486
0.180	47.8	3.096	0.514
0.200	50.5	3.440	0.541
0.220	52.6	3.784	0.561
0.240	54.6	4.128	0.581
0.260	57.1	4.472	0.605
0.280	58.1	4.816	0.613
0.300	59.3	5.160	0.624
0.320	60.3	5.504	0.632
0.340	61.1	5.848	0.638
0.360	61.8	6.192	0.643
0.380	62.3	6.536	0.646
0.400	62.5	6.880	0.645
0.420	62.5	7.224	0.643
0.440	62.0	7.568	0.636
0.460	61.0	7.912	0.623
0.480	60.3	8.256	0.614
0.500	59.5	8.600	0.603
0.520			
0.540			
0.560			
0.580			
0.600			



6.521451

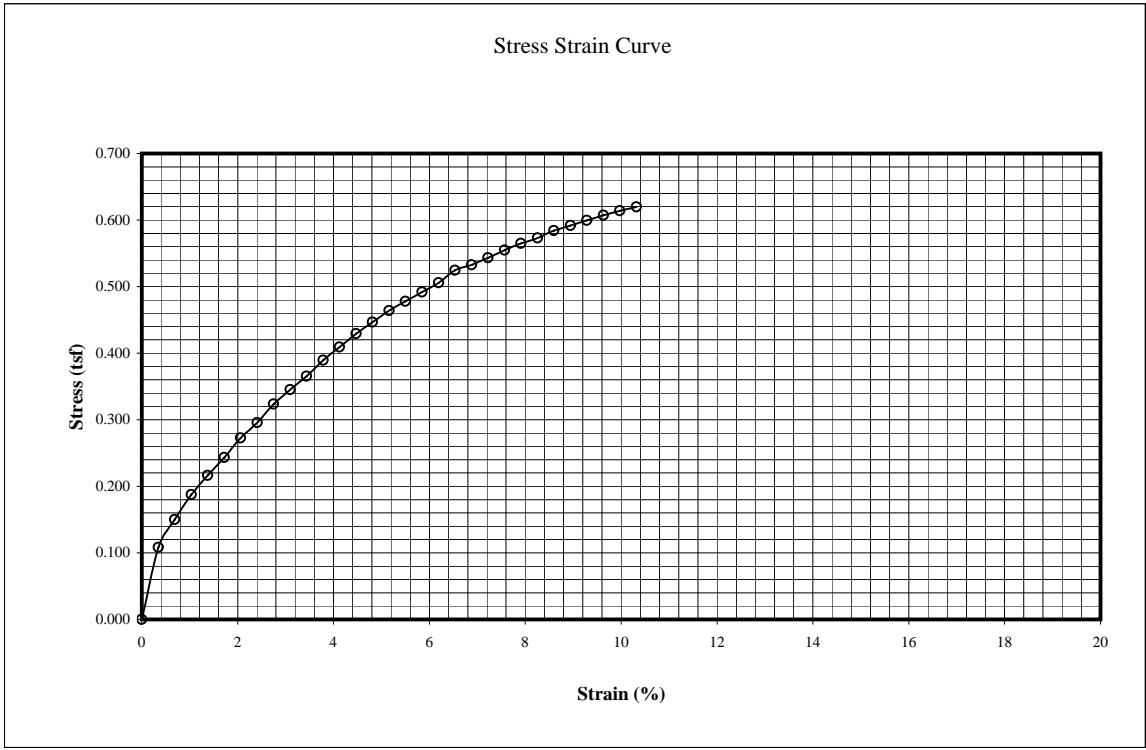
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium gray clay with silt seams and wood  
**Boring No.:** 17-4-2  
**Depth (ft):** 10-11  
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 5.8  
 Weight (gm) = 1120.7  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 34.12%  
 Wet Density (pcf) = 113.1  
 Dry Density (pcf) = 84.3  
**Wet wt.** 182.31  
**Dry wt.** 141.25  
**Can wt.** 20.9  
**Test Data:**  
 Cell Pressure (psi) = 5.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	9.8	0.344	0.108
0.040	13.6	0.688	0.150
0.060	17.1	1.032	0.188
0.080	19.8	1.376	0.217
0.100	22.3	1.720	0.243
0.120	25.1	2.064	0.273
0.140	27.3	2.408	0.295
0.160	30.0	2.752	0.324
0.180	32.1	3.096	0.345
0.200	34.1	3.440	0.365
0.220	36.5	3.784	0.389
0.240	38.5	4.128	0.409
0.260	40.5	4.472	0.429
0.280	42.3	4.816	0.447
0.300	44.1	5.160	0.464
0.320	45.6	5.504	0.478
0.340	47.1	5.848	0.492
0.360	48.6	6.192	0.506
0.380	50.6	6.536	0.525
0.400	51.6	6.880	0.533
0.420	52.8	7.224	0.543
0.440	54.1	7.568	0.555
0.460	55.3	7.912	0.565
0.480	56.3	8.256	0.573
0.500	57.6	8.600	0.584
0.520	58.6	8.944	0.592
0.540	59.6	9.288	0.600
0.560	60.6	9.632	0.607
0.580	61.5	9.976	0.614
0.600	62.3	10.320	0.620



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

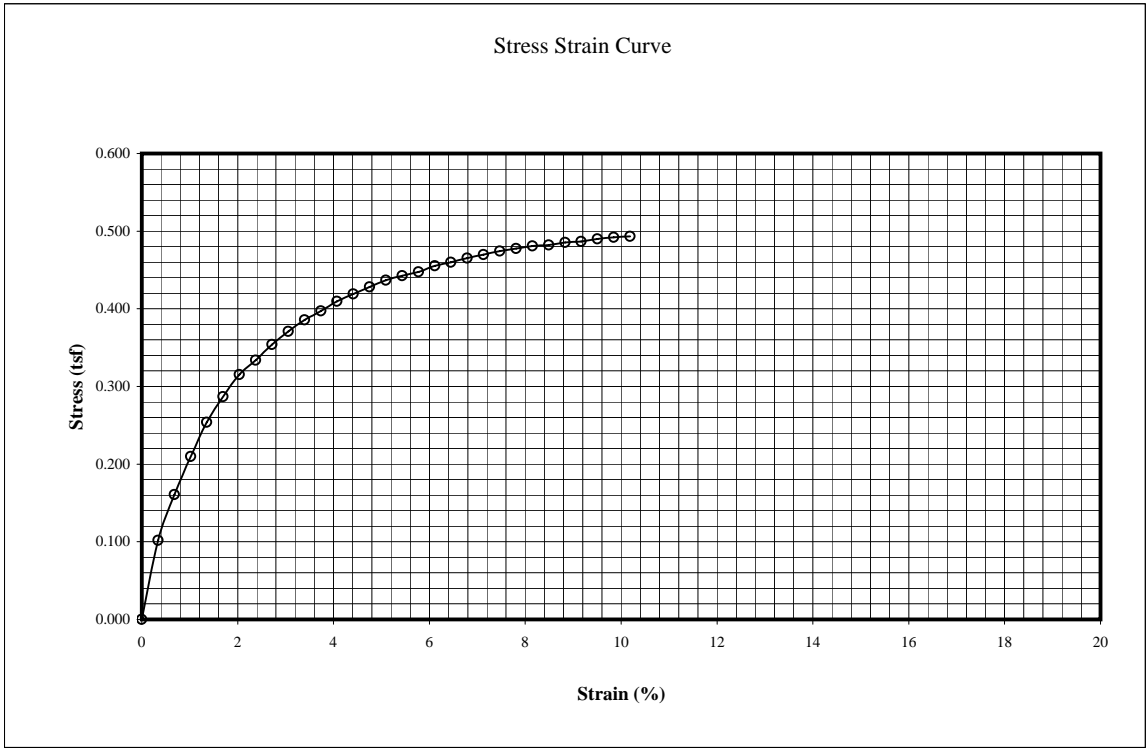
**Material :** Soft gray and brown clay with peat and organics  
**Boring No.:** 17-4-3  
**Depth (ft):** 11.5-13.5

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.9  
 Weight (gm) = 885.7

**Test Data:**  
 Type of Failure: Yield @ 10%  
 Wet wt. = 162.94  
 Dry at. = 83.74  
 Moisture Content (%) = 128.43%  
 Can wt. = 22.07  
 Cell Pressure (psi) = 7.5  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

Area (in<sup>2</sup>) = 6.492  
 Wet Density (pcf) = 88.2  
 Dry Density (pcf) = 38.6

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	9.2	0.340	0.102
0.040	14.6	0.679	0.161
0.060	19.1	1.019	0.210
0.080	23.2	1.358	0.254
0.100	26.3	1.698	0.287
0.120	29.0	2.037	0.315
0.140	30.8	2.377	0.334
0.160	32.8	2.716	0.354
0.180	34.5	3.056	0.371
0.200	36.0	3.396	0.386
0.220	37.2	3.735	0.397
0.240	38.5	4.075	0.410
0.260	39.5	4.414	0.419
0.280	40.5	4.754	0.428
0.300	41.5	5.093	0.437
0.320	42.2	5.433	0.443
0.340	42.8	5.772	0.447
0.360	43.7	6.112	0.455
0.380	44.3	6.452	0.460
0.400	45.0	6.791	0.465
0.420	45.6	7.131	0.470
0.440	46.2	7.470	0.474
0.460	46.7	7.810	0.478
0.480	47.2	8.149	0.481
0.500	47.5	8.489	0.482
0.520	48.0	8.829	0.486
0.540	48.3	9.168	0.487
0.560	48.8	9.508	0.490
0.580	49.2	9.847	0.492
0.600	49.5	10.187	0.493



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

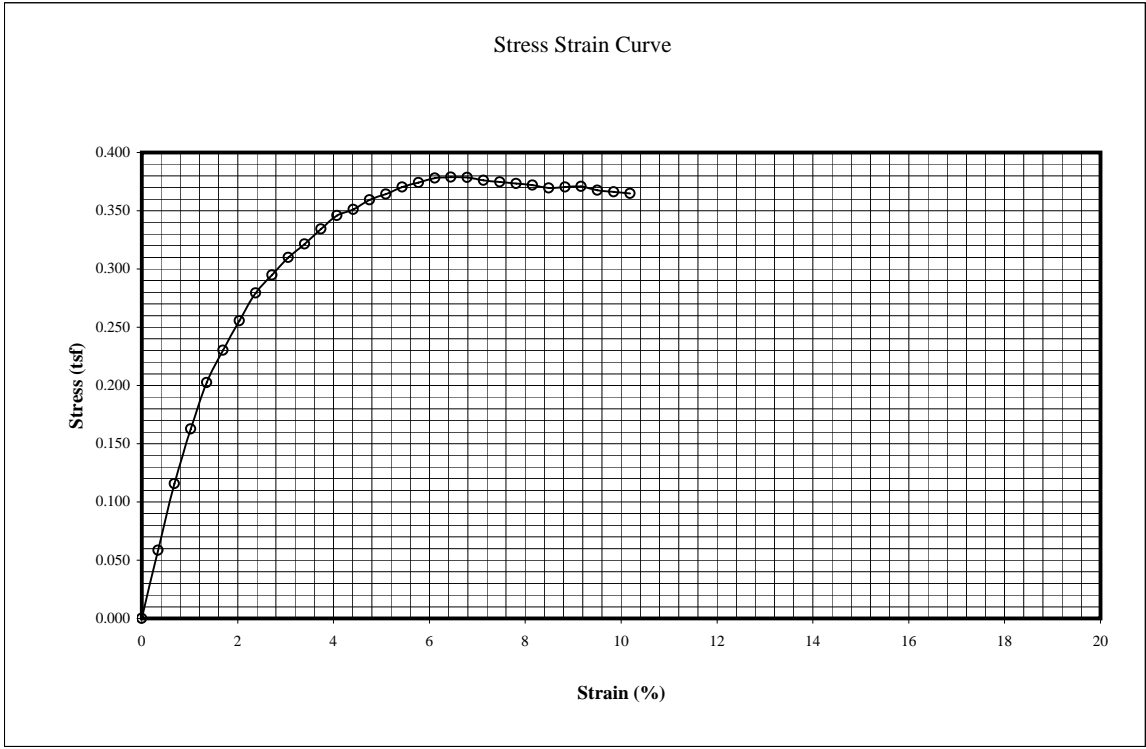
**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Soft dark gray organic clay with peat  
**Boring No.:** 17-4-4  
**Depth (ft):** 14-15

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.9  
 Weight (gm) = 830.0

**Test Data:**  
 Type of Failure:  
 Wet wt. = 126.99  
 Dry wt. = 54.52  
 Moisture Content (%) = 261.81%  
 Can wt. = 26.84  
 Cell Pressure (psi) = 8.9  
 Height Correction = 1.000  
 Wet Density (pcf) = 82.7  
 Proving Ring No. = 2011  
 Dry Density (pcf) = 22.9  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	5.3	0.340	0.059
0.040	10.5	0.679	0.116
0.060	14.8	1.019	0.163
0.080	18.5	1.358	0.202
0.100	21.1	1.698	0.230
0.120	23.5	2.037	0.255
0.140	25.8	2.377	0.279
0.160	27.3	2.716	0.295
0.180	28.8	3.056	0.310
0.200	30.0	3.396	0.322
0.220	31.3	3.735	0.334
0.240	32.5	4.075	0.346
0.260	33.1	4.414	0.351
0.280	34.0	4.754	0.359
0.300	34.6	5.093	0.364
0.320	35.3	5.433	0.370
0.340	35.8	5.772	0.374
0.360	36.3	6.112	0.378
0.380	36.5	6.452	0.379
0.400	36.6	6.791	0.379
0.420	36.5	7.131	0.376
0.440	36.5	7.470	0.375
0.460	36.5	7.810	0.373
0.480	36.5	8.149	0.372
0.500	36.4	8.489	0.370
0.520	36.6	8.829	0.370
0.540	36.8	9.168	0.371
0.560	36.6	9.508	0.367
0.580	36.6	9.847	0.366
0.600	36.6	10.187	0.365



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

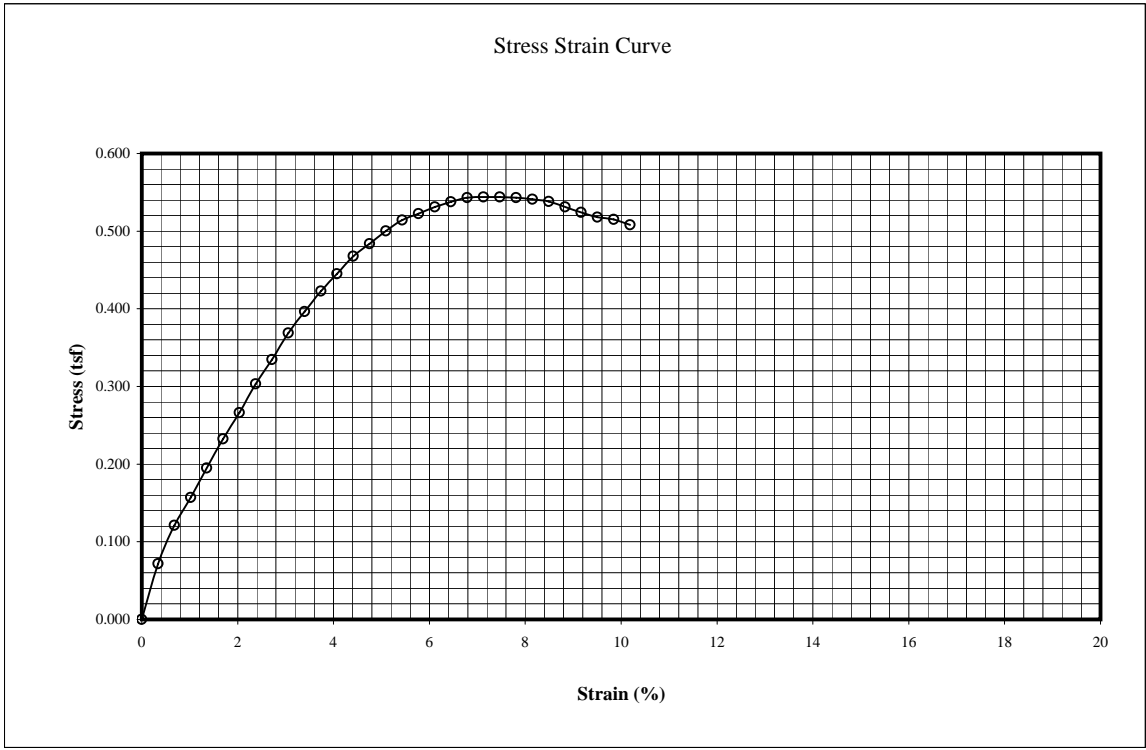
**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium dark gray organic clay with peat  
**Boring No.:** 17-4-4  
**Depth (ft):** 15-16

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.9  
 Weight (gm) = 736.1

**Test Data:**  
 Type of Failure:  
 Wet wt. = 147.46  
 Dry at. = 91.67  
 Moisture Content (%) = 80.25%  
 Can wt. = 22.15  
 Cell Pressure (psi) = 8.9  
 Height Correction = 1.000  
 Wet Density (pcf) = 73.3  
 Proving Ring No. = 2011  
 Dry Density (pcf) = 40.7  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	6.5	0.340	0.072
0.040	11.0	0.679	0.121
0.060	14.3	1.019	0.157
0.080	17.8	1.358	0.195
0.100	21.3	1.698	0.232
0.120	24.5	2.037	0.266
0.140	28.0	2.377	0.303
0.160	31.0	2.716	0.335
0.180	34.3	3.056	0.369
0.200	37.0	3.396	0.397
0.220	39.6	3.735	0.423
0.240	41.8	4.075	0.445
0.260	44.1	4.414	0.468
0.280	45.8	4.754	0.484
0.300	47.5	5.093	0.500
0.320	49.0	5.433	0.514
0.340	50.0	5.772	0.523
0.360	51.0	6.112	0.531
0.380	51.8	6.452	0.538
0.400	52.5	6.791	0.543
0.420	52.8	7.131	0.544
0.440	53.0	7.470	0.544
0.460	53.1	7.810	0.543
0.480	53.1	8.149	0.541
0.500	53.0	8.489	0.538
0.520	52.5	8.829	0.531
0.540	52.0	9.168	0.524
0.560	51.6	9.508	0.518
0.580	51.5	9.847	0.515
0.600	51.0	10.187	0.508



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Very soft gray clay  
**Boring No.:** 17-4-7  
**Depth (ft):** 21.5-22.5

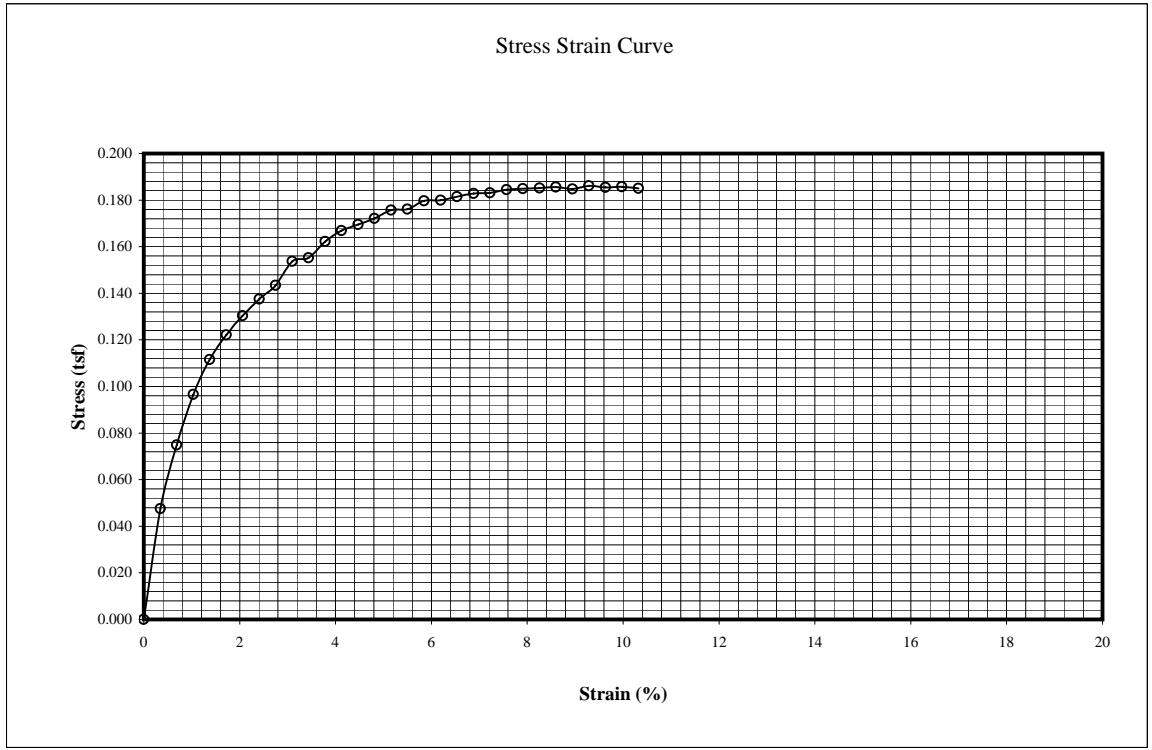
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 942.1

Wet wt. = 146.82  
 Dry at. = 92.09  
 Moisture Content (%) = 77.95%  
 Can wt. = 21.88  
 Wet Density (pcf) = 95.1  
 Dry Density (pcf) = 53.4

**Test Data:**  
 Cell Pressure (psi) = 14.4  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	4.3	0.344	0.048
0.040	6.8	0.688	0.075
0.060	8.8	1.032	0.097
0.080	10.2	1.376	0.112
0.100	11.2	1.720	0.122
0.120	12.0	2.064	0.130
0.140	12.7	2.408	0.137
0.160	13.3	2.752	0.143
0.180	14.3	3.096	0.154
0.200	14.5	3.440	0.155
0.220	15.2	3.784	0.162
0.240	15.7	4.128	0.167
0.260	16.0	4.472	0.170
0.280	16.3	4.816	0.172
0.300	16.7	5.160	0.176
0.320	16.8	5.504	0.176
0.340	17.2	5.848	0.180
0.360	17.3	6.192	0.180
0.380	17.5	6.536	0.181
0.400	17.7	6.880	0.183
0.420	17.8	7.224	0.183
0.440	18.0	7.568	0.185
0.460	18.1	7.912	0.185
0.480	18.2	8.256	0.185
0.500	18.3	8.600	0.186
0.520	18.3	8.944	0.185
0.540	18.5	9.288	0.186
0.560	18.5	9.632	0.185
0.580	18.6	9.976	0.186
0.600	18.6	10.320	0.185



6.521451



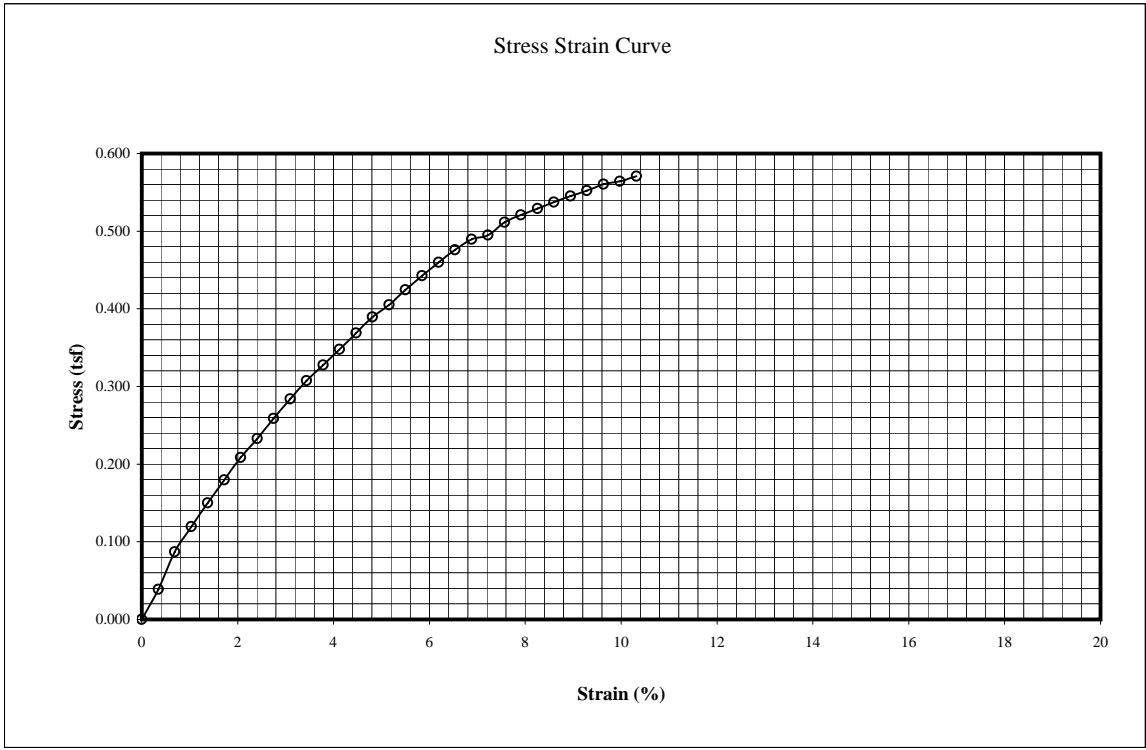
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Soft gray silty sandy clay (alt. Layers)      **Type of Failure:** Yield @ 10%  
**Boring No.:** 17-4-7  
**Depth (ft):** 22.5-23.5

**Sample Data:**  
 Diameter (in.) = 2.875      Wet wt. = 204.42  
 Height (in) = 5.8      Area (in<sup>2</sup>) = 6.492      Dry wt. = 146.12  
 Weight (gm) = 1131.0      Moisture Content (%) = 46.61%      Can wt. = 21.05  
 Wet Density (pcf) = 114.2      **Test Data:**  
 Dry Density (pcf) = 77.9      Cell Pressure (psi) = 14.4  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.5	0.344	0.039
0.040	7.9	0.688	0.087
0.060	10.9	1.032	0.120
0.080	13.7	1.376	0.150
0.100	16.5	1.720	0.180
0.120	19.2	2.064	0.209
0.140	21.5	2.408	0.233
0.160	24.0	2.752	0.259
0.180	26.4	3.096	0.284
0.200	28.7	3.440	0.307
0.220	30.7	3.784	0.328
0.240	32.7	4.128	0.348
0.260	34.8	4.472	0.369
0.280	36.9	4.816	0.390
0.300	38.5	5.160	0.405
0.320	40.5	5.504	0.424
0.340	42.4	5.848	0.443
0.360	44.2	6.192	0.460
0.380	45.9	6.536	0.476
0.400	47.4	6.880	0.490
0.420	48.1	7.224	0.495
0.440	49.9	7.568	0.512
0.460	51.0	7.912	0.521
0.480	52.0	8.256	0.529
0.500	53.0	8.600	0.537
0.520	54.0	8.944	0.545
0.540	54.9	9.288	0.552
0.560	55.9	9.632	0.560
0.580	56.5	9.976	0.564
0.600	57.4	10.320	0.571



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

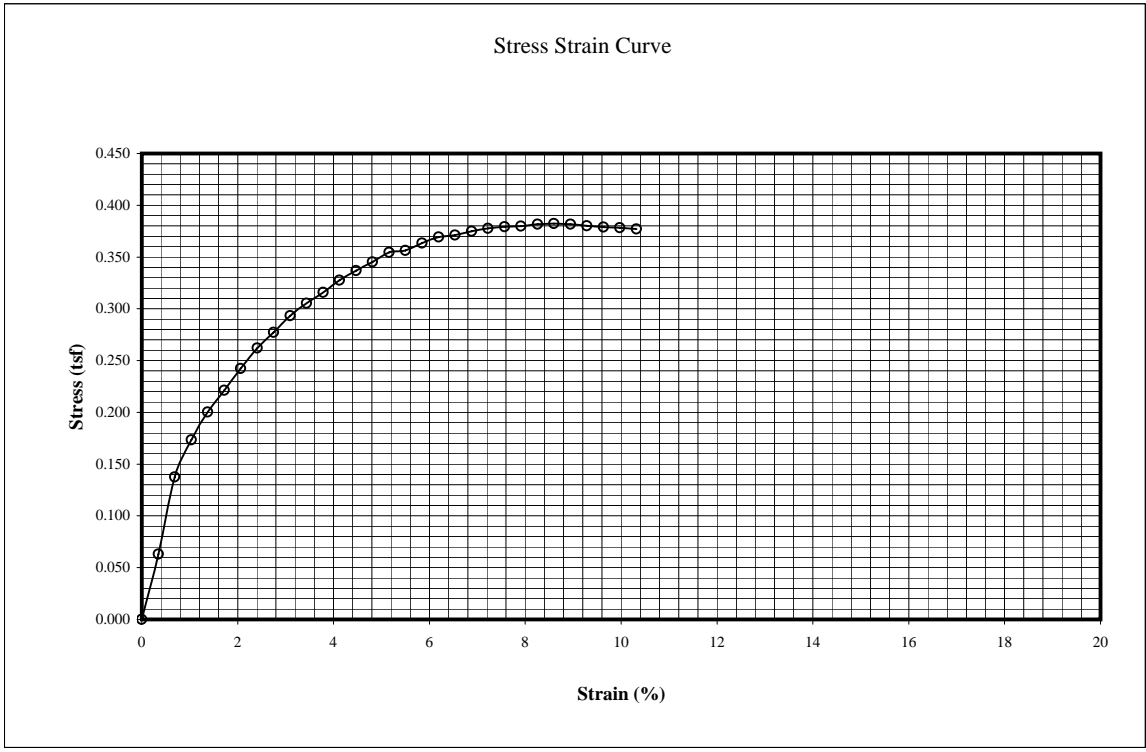
**Material:** Soft gray clay w/alt. Layers of silty fine sand  
**Boring No.:** 17-4-8  
**Depth (ft):** 25-27

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 981.4

**Test Data:**  
 Type of Failure: Yield @ 10%  
 Wet wt. = 159.49  
 Dry at. = 104.48  
 Can wt. = 20.88  
 Cell Pressure (psi) = 15.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 65.80%  
 Wet Density (pcf) = 99.1  
 Dry Density (pcf) = 59.7

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	5.7	0.344	0.063
0.040	12.5	0.688	0.138
0.060	15.8	1.032	0.173
0.080	18.3	1.376	0.200
0.100	20.3	1.720	0.221
0.120	22.3	2.064	0.242
0.140	24.2	2.408	0.262
0.160	25.7	2.752	0.277
0.180	27.3	3.096	0.293
0.200	28.5	3.440	0.305
0.220	29.6	3.784	0.316
0.240	30.8	4.128	0.327
0.260	31.8	4.472	0.337
0.280	32.7	4.816	0.345
0.300	33.7	5.160	0.354
0.320	34.0	5.504	0.356
0.340	34.8	5.848	0.363
0.360	35.5	6.192	0.369
0.380	35.8	6.536	0.371
0.400	36.3	6.880	0.375
0.420	36.7	7.224	0.378
0.440	37.0	7.568	0.379
0.460	37.2	7.912	0.380
0.480	37.5	8.256	0.382
0.500	37.7	8.600	0.382
0.520	37.8	8.944	0.382
0.540	37.8	9.288	0.380
0.560	37.8	9.632	0.379
0.580	37.9	9.976	0.378
0.600	37.9	10.320	0.377



6.521451

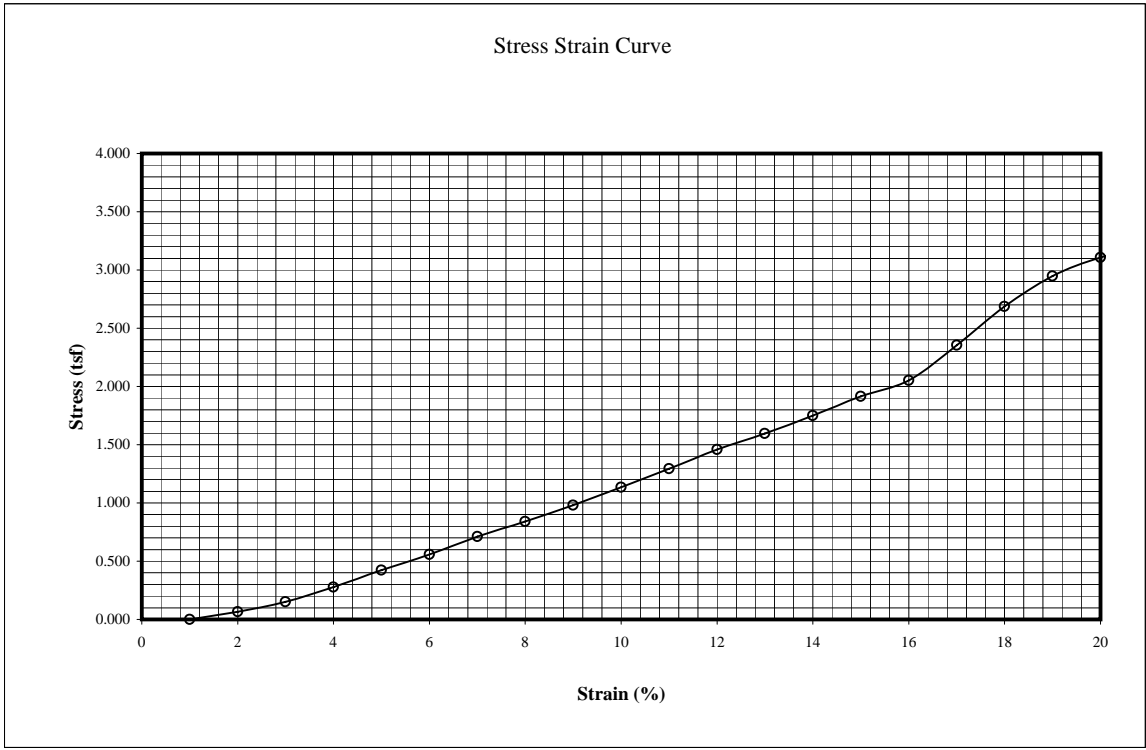
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very stiff tan and brown clay with silt  
**Boring No.:** 17-5-1  
**Depth (ft):** 3-5  
**Type of Failure:** Vertical @ 7.4%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.9  
 Weight (gm) = 1267.3  
 Wet wt. = 162.22  
 Dry wt. = 142.28  
 Can wt. = 28.9  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 17.59%  
 Wet Density (pcf) = 126.3  
 Dry Density (pcf) = 107.4  
**Test Data:**  
 Cell Pressure (psi) =  
 Height Correction = 1.000  
 Proving Ring No. = 9839  
 0.337

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	18	0.340	0.067
0.040	41	0.679	0.152
0.060	75	1.019	0.278
0.080	115	1.358	0.424
0.100	152	1.698	0.559
0.120	194	2.037	0.711
0.140	230	2.377	0.840
0.160	270	2.716	0.982
0.180	313	3.056	1.135
0.200	358	3.396	1.293
0.220	405	3.735	1.458
0.240	445	4.075	1.596
0.260	490	4.414	1.751
0.280	538	4.754	1.916
0.300	578	5.093	2.051
0.320	620	5.433	2.353
0.340	660	5.772	2.686
0.360	692	6.112	2.948
0.380	712	6.452	3.107
0.400	725	6.791	3.205
0.420	736	7.131	3.286
0.440	742	7.470	3.324
0.460			
0.480			
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



2.197729

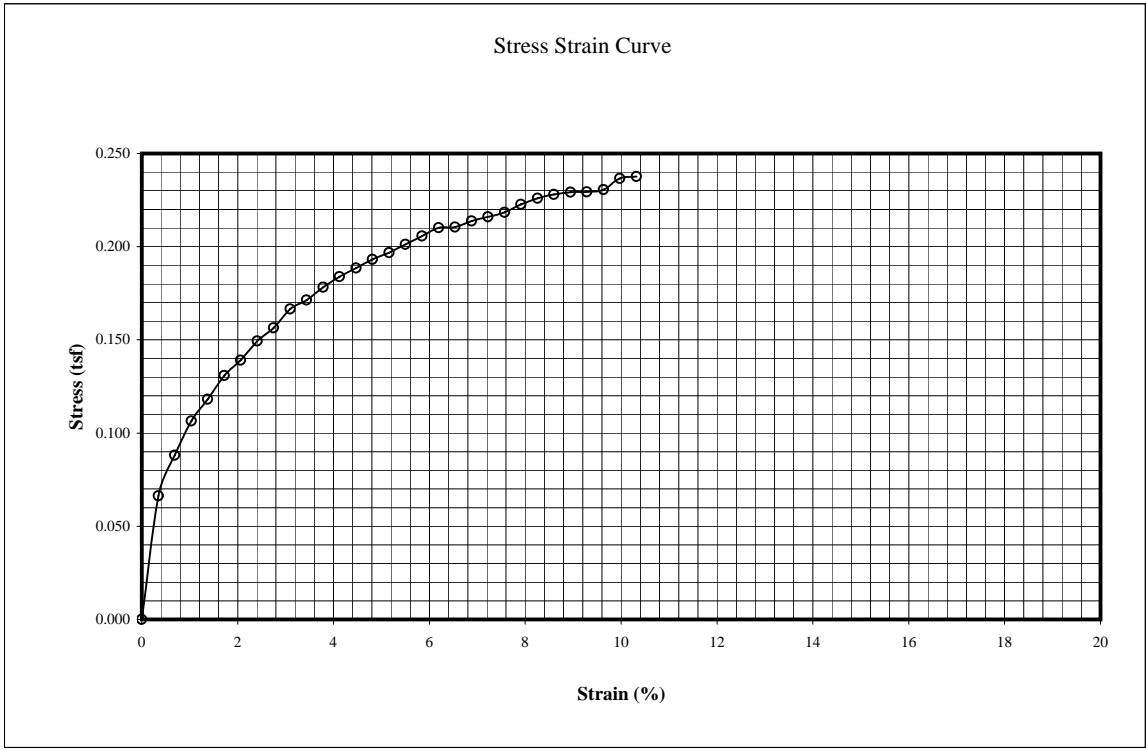
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray clay with siltlenses and wood  
**Boring No.:** 17-5-6  
**Depth (ft):** 22-24  
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 5.8  
 Weight (gm) = 954.4  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 77.69%  
 Wet Density (pcf) = 96.3  
 Dry Density (pcf) = 54.2  
**Wet wt.** = 136.11  
**Dry wt.** = 85.72  
**Can wt.** = 20.86  
**Test Data:**  
 Cell Pressure (psi) = 14.4  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	6.0	0.344	0.066
0.040	8.0	0.688	0.088
0.060	9.7	1.032	0.106
0.080	10.8	1.376	0.118
0.100	12.0	1.720	0.131
0.120	12.8	2.064	0.139
0.140	13.8	2.408	0.149
0.160	14.5	2.752	0.156
0.180	15.5	3.096	0.167
0.200	16.0	3.440	0.171
0.220	16.7	3.784	0.178
0.240	17.3	4.128	0.184
0.260	17.8	4.472	0.189
0.280	18.3	4.816	0.193
0.300	18.7	5.160	0.197
0.320	19.2	5.504	0.201
0.340	19.7	5.848	0.206
0.360	20.2	6.192	0.210
0.380	20.3	6.536	0.210
0.400	20.7	6.880	0.214
0.420	21.0	7.224	0.216
0.440	21.3	7.568	0.218
0.460	21.8	7.912	0.223
0.480	22.2	8.256	0.226
0.500	22.5	8.600	0.228
0.520	22.7	8.944	0.229
0.540	22.8	9.288	0.229
0.560	23.0	9.632	0.231
0.580	23.7	9.976	0.237
0.600	23.9	10.320	0.238



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

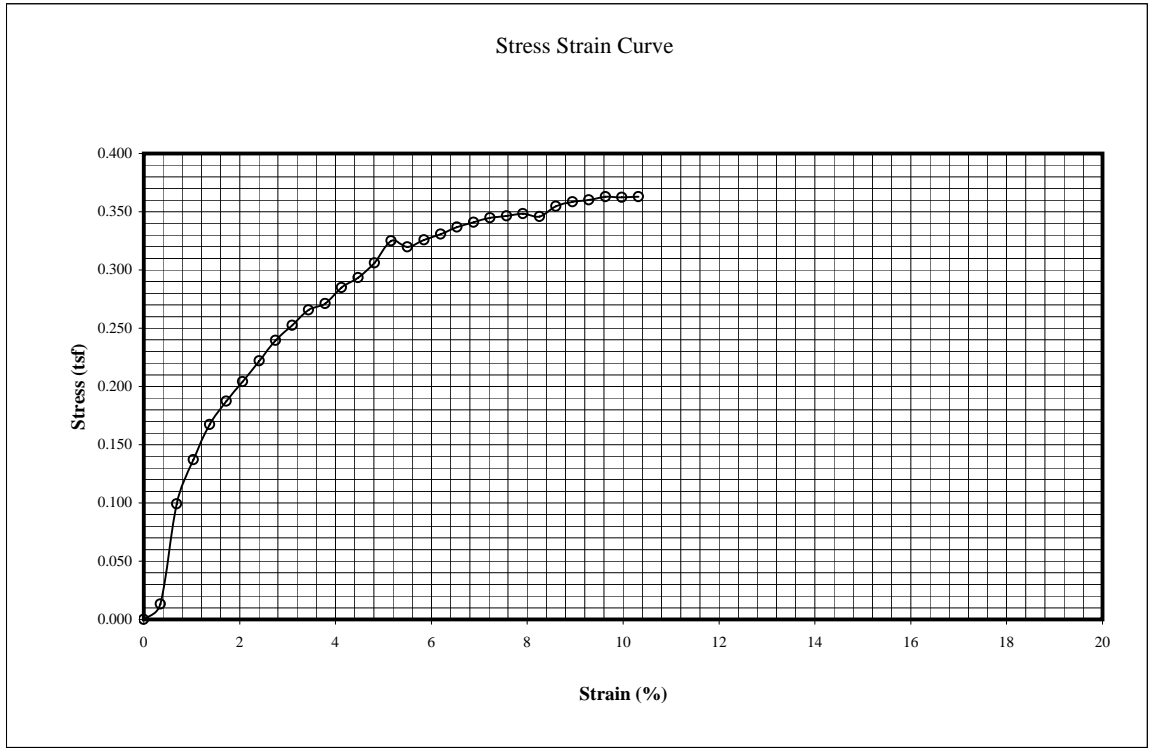
**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Soft gray clay w/alt. Seams of silty fine sand  
**Boring No.:** 17-5-7  
**Depth (ft):** 25-27

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 999.2

**Test Data:**  
 Type of Failure: Yield @ 10%  
 Wet wt. = 143.77  
 Dry at. = 107.04  
 Moisture Content (%) = 42.65%  
 Can wt. = 20.92  
 Cell Pressure (psi) = 16.7  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 Dry Density (pcf) = 100.8  
 Dry Density (pcf) = 70.7

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	1.2	0.344	0.013
0.040	9.0	0.688	0.099
0.060	12.5	1.032	0.137
0.080	15.3	1.376	0.167
0.100	17.2	1.720	0.187
0.120	18.8	2.064	0.204
0.140	20.5	2.408	0.222
0.160	22.2	2.752	0.239
0.180	23.5	3.096	0.253
0.200	24.8	3.440	0.266
0.220	25.4	3.784	0.271
0.240	26.8	4.128	0.285
0.260	27.7	4.472	0.293
0.280	29.0	4.816	0.306
0.300	30.9	5.160	0.325
0.320	30.5	5.504	0.320
0.340	31.2	5.848	0.326
0.360	31.8	6.192	0.331
0.380	32.5	6.536	0.337
0.400	33.0	6.880	0.341
0.420	33.5	7.224	0.345
0.440	33.8	7.568	0.347
0.460	34.1	7.912	0.348
0.480	34.0	8.256	0.346
0.500	35.0	8.600	0.355
0.520	35.5	8.944	0.359
0.540	35.8	9.288	0.360
0.560	36.2	9.632	0.363
0.580	36.3	9.976	0.362
0.600	36.5	10.320	0.363



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Very soft organic clay  
**Boring No.:** LAC-1-1  
**Depth (ft):** 3-4

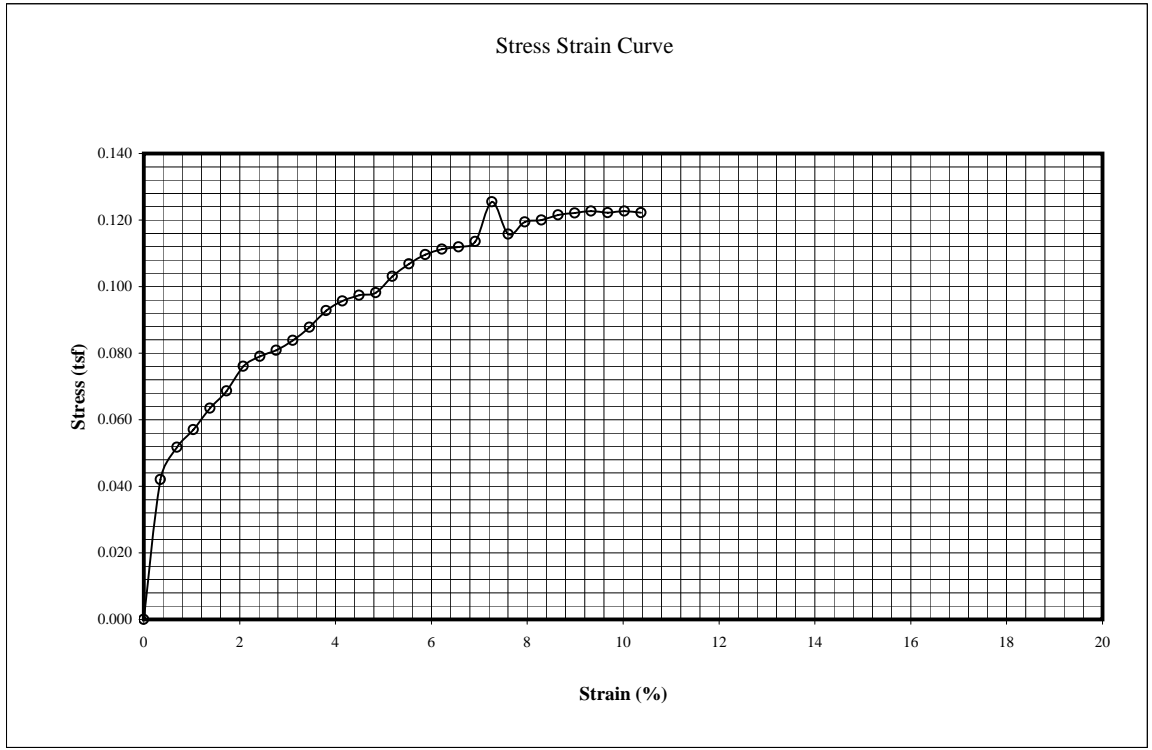
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 852.6

Wet wt. = 142.26  
 Dry at. = 75.15  
 Moisture Content (%) = 123.75%  
 Can wt. = 20.92  
 Wet Density (pcf) = 86.5  
 Dry Density (pcf) = 38.7

**Test Data:**  
 Cell Pressure (psi) = 3.0  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	3.8	0.346	0.042
0.040	4.7	0.691	0.052
0.060	5.2	1.037	0.057
0.080	5.8	1.383	0.063
0.100	6.3	1.729	0.069
0.120	7.0	2.074	0.076
0.140	7.3	2.420	0.079
0.160	7.5	2.766	0.081
0.180	7.8	3.111	0.084
0.200	8.2	3.457	0.088
0.220	8.7	3.803	0.093
0.240	9.0	4.149	0.096
0.260	9.2	4.494	0.097
0.280	9.3	4.840	0.098
0.300	9.8	5.186	0.103
0.320	10.2	5.532	0.107
0.340	10.5	5.877	0.110
0.360	10.7	6.223	0.111
0.380	10.8	6.569	0.112
0.400	11.0	6.914	0.114
0.420	12.2	7.260	0.125
0.440	11.3	7.606	0.116
0.460	11.7	7.952	0.119
0.480	11.8	8.297	0.120
0.500	12.0	8.643	0.122
0.520	12.1	8.989	0.122
0.540	12.2	9.334	0.123
0.560	12.2	9.680	0.122
0.580	12.3	10.026	0.123
0.600	12.3	10.372	0.122



6.521451

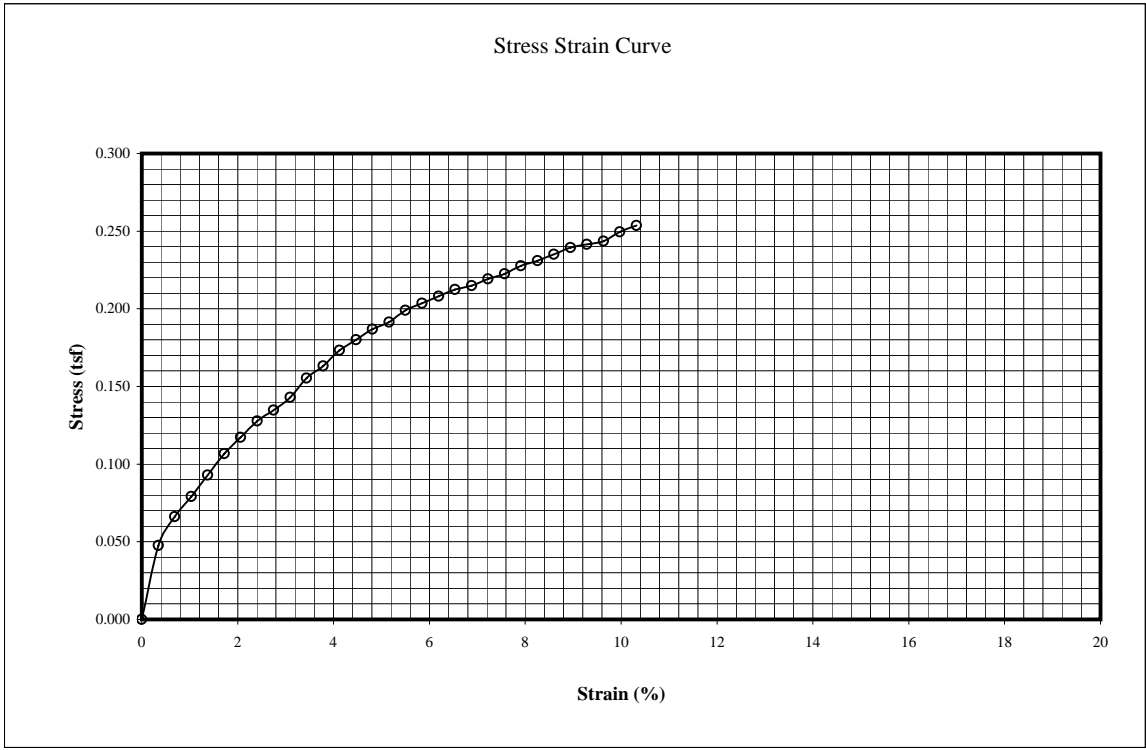
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Soft gray clay with fine sand  
**Boring No.:** LAC-1-1  
**Depth (ft):** 5-6  
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1143.7  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 47.68%  
 Wet Density (pcf) = 115.4  
 Dry Density (pcf) = 78.2  
**Test Data:**  
 Wet wt. = 198.4  
 Dry at. = 143.55  
 Can wt. = 28.51  
 Cell Pressure (psi) = 3.0  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	4.3	0.344	0.048
0.040	6.0	0.688	0.066
0.060	7.2	1.032	0.079
0.080	8.5	1.376	0.093
0.100	9.8	1.720	0.107
0.120	10.8	2.064	0.117
0.140	11.8	2.408	0.128
0.160	12.5	2.752	0.135
0.180	13.3	3.096	0.143
0.200	14.5	3.440	0.155
0.220	15.3	3.784	0.163
0.240	16.3	4.128	0.173
0.260	17.0	4.472	0.180
0.280	17.7	4.816	0.187
0.300	18.2	5.160	0.191
0.320	19.0	5.504	0.199
0.340	19.5	5.848	0.204
0.360	20.0	6.192	0.208
0.380	20.5	6.536	0.213
0.400	20.8	6.880	0.215
0.420	21.3	7.224	0.219
0.440	21.7	7.568	0.222
0.460	22.3	7.912	0.228
0.480	22.7	8.256	0.231
0.500	23.2	8.600	0.235
0.520	23.7	8.944	0.239
0.540	24.0	9.288	0.241
0.560	24.3	9.632	0.244
0.580	25.0	9.976	0.250
0.600	25.5	10.320	0.254



6.521451

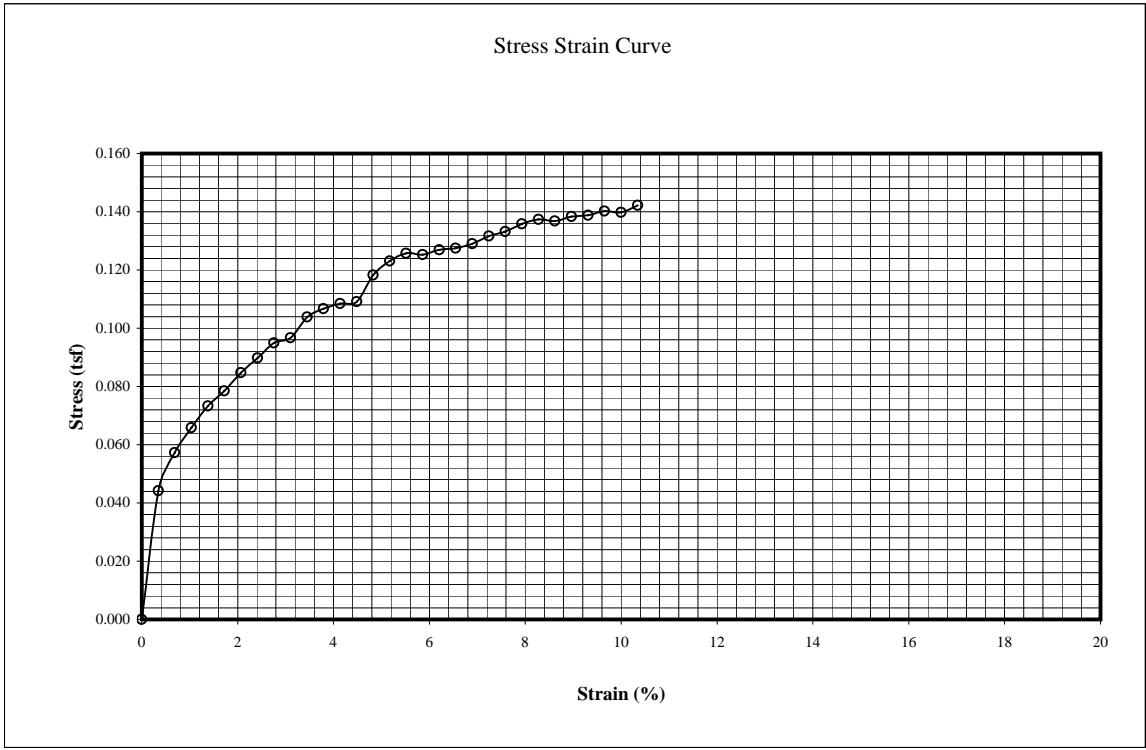
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft clay w/ 1/2" sand layer at bottom  
**Boring No.:** LAC-1-2  
**Depth (ft):** 6-8  
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1111.1  
 Wet wt. = 151.2  
 Dry at. = 108.24  
 Moisture Content (%) = 51.65%  
 Can wt. = 25.06  
 Wet Density (pcf) = 112.4  
 Dry Density (pcf) = 74.1  
**Test Data:**  
 Cell Pressure (psi) = 4.1  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	4.0	0.345	0.044
0.040	5.2	0.690	0.057
0.060	6.0	1.034	0.066
0.080	6.7	1.379	0.073
0.100	7.2	1.724	0.078
0.120	7.8	2.069	0.085
0.140	8.3	2.414	0.090
0.160	8.8	2.759	0.095
0.180	9.0	3.103	0.097
0.200	9.7	3.448	0.104
0.220	10.0	3.793	0.107
0.240	10.2	4.138	0.108
0.260	10.3	4.483	0.109
0.280	11.2	4.828	0.118
0.300	11.7	5.172	0.123
0.320	12.0	5.517	0.126
0.340	12.0	5.862	0.125
0.360	12.2	6.207	0.127
0.380	12.3	6.552	0.127
0.400	12.5	6.897	0.129
0.420	12.8	7.241	0.132
0.440	13.0	7.586	0.133
0.460	13.3	7.931	0.136
0.480	13.5	8.276	0.137
0.500	13.5	8.621	0.137
0.520	13.7	8.966	0.138
0.540	13.8	9.310	0.139
0.560	14.0	9.655	0.140
0.580	14.0	10.000	0.140
0.600	14.3	10.345	0.142



6.521451



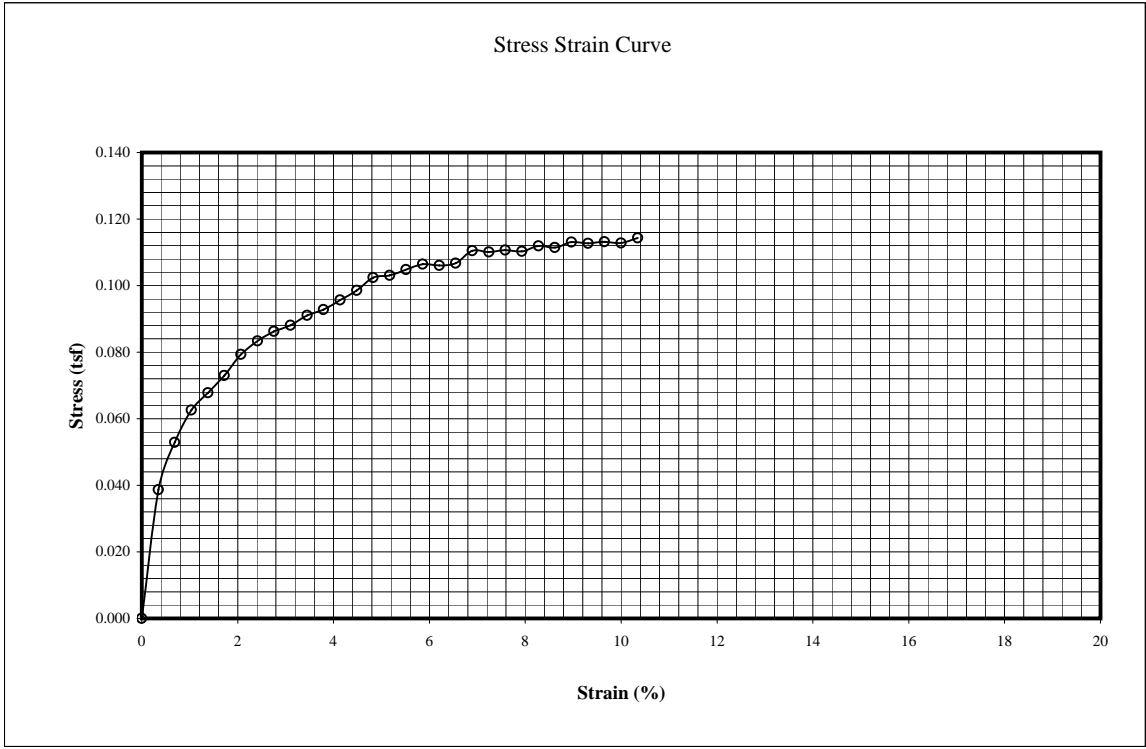
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray sandy clay w/wood & clay pockets  
**Boring No.:** LAC-1-3  
**Depth (ft):** 8.5-9.5  
 Type of Failure: Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 947.4  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 32.58%  
 Wet Density (pcf) = 95.9  
 Dry Density (pcf) = 72.3  
**Test Data:**  
 Wet wt. = 185.35  
 Dry wt. = 145.26  
 Can wt. = 22.22  
 Cell Pressure (psi) = 5.6  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	3.5	0.345	0.039
0.040	4.8	0.690	0.053
0.060	5.7	1.034	0.063
0.080	6.2	1.379	0.068
0.100	6.7	1.724	0.073
0.120	7.3	2.069	0.079
0.140	7.7	2.414	0.083
0.160	8.0	2.759	0.086
0.180	8.2	3.103	0.088
0.200	8.5	3.448	0.091
0.220	8.7	3.793	0.093
0.240	9.0	4.138	0.096
0.260	9.3	4.483	0.099
0.280	9.7	4.828	0.102
0.300	9.8	5.172	0.103
0.320	10.0	5.517	0.105
0.340	10.2	5.862	0.106
0.360	10.2	6.207	0.106
0.380	10.3	6.552	0.107
0.400	10.7	6.897	0.110
0.420	10.7	7.241	0.110
0.440	10.8	7.586	0.111
0.460	10.8	7.931	0.110
0.480	11.0	8.276	0.112
0.500	11.0	8.621	0.111
0.520	11.2	8.966	0.113
0.540	11.2	9.310	0.113
0.560	11.3	9.655	0.113
0.580	11.3	10.000	0.113
0.600	11.5	10.345	0.114



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

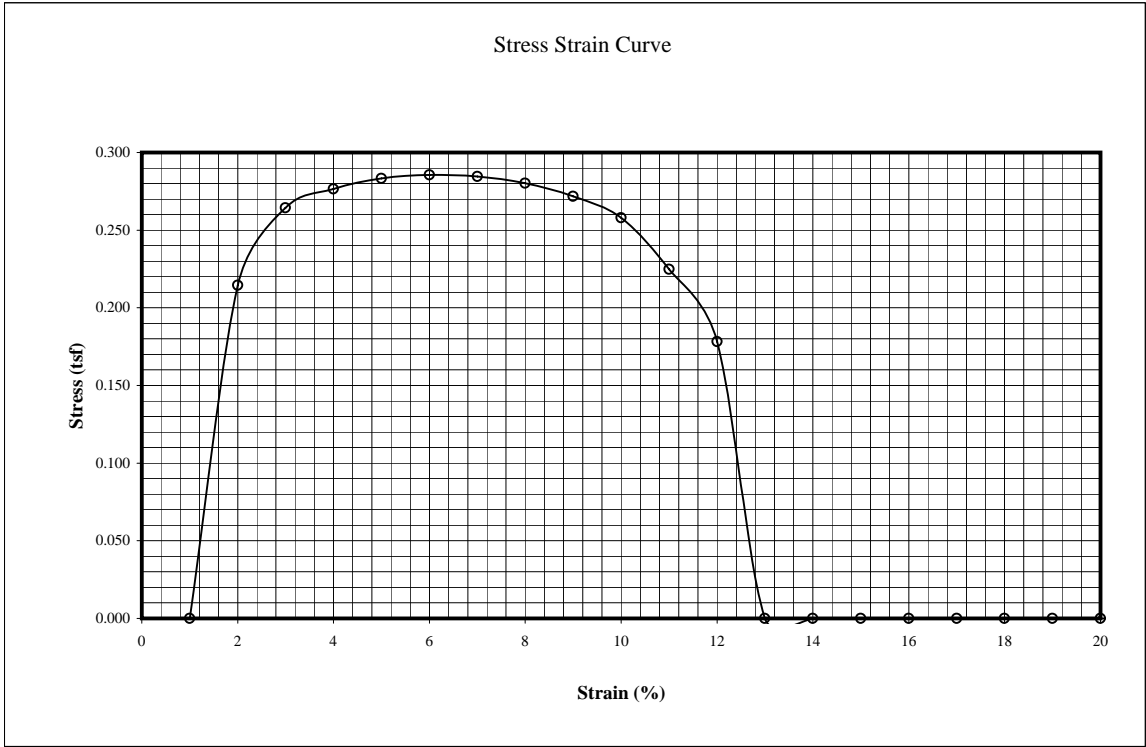
**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Firm gray fine sand with 2" clayey sand layer  
**Boring No.:** LAC-1-3  
**Depth (ft):** 9.5-10.5

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1160.9

**Test Data:**  
 Type of Failure: Bulge @ 4%  
 Wet wt. = 197.24  
 Dry at. = 158.25  
 Moisture Content (%) = 30.18%  
 Can wt. = 29.07  
 Cell Pressure (psi) = 5.6  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 Dry Density (pcf) = 117.5  
 Wet Density (pcf) = 117.5  
 Dry Density (pcf) = 90.2

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	19.4	0.345	0.214
0.040	24.0	0.690	0.264
0.060	25.2	1.034	0.277
0.080	25.9	1.379	0.283
0.100	26.2	1.724	0.286
0.120	26.2	2.069	0.285
0.140	25.9	2.414	0.280
0.160	25.2	2.759	0.272
0.180	24.0	3.103	0.258
0.200	21.0	3.448	0.225
0.220	16.7	3.793	0.178
0.240			
0.260			
0.280			
0.300			
0.320			
0.340			
0.360			
0.380			
0.400			
0.420			
0.440			
0.460			
0.480			
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium gray clay with some silt  
**Boring No.:** LAC-2-4  
**Depth (ft):** 44-45

Type of Failure: Yield @ 10%

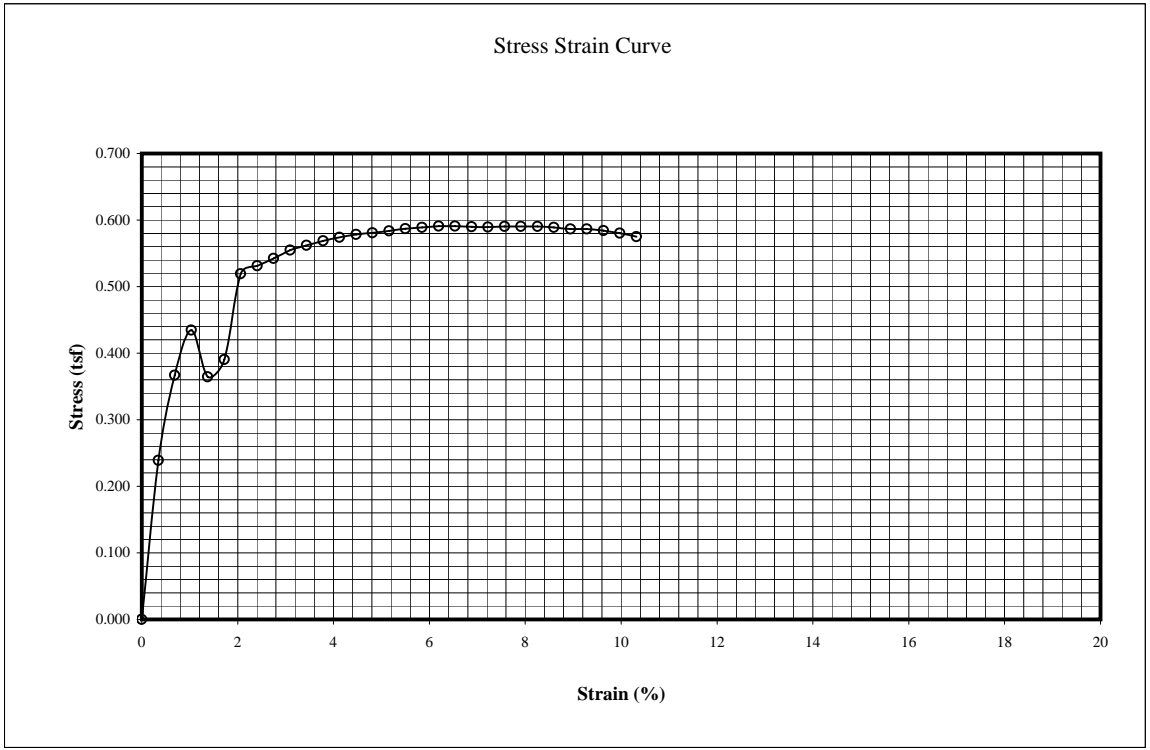
**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1006.6

Wet wt. = 207.31  
 Dry at. = 124.65  
 Can wt. = 29.05

Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 86.46%  
 Wet Density (pcf) = 101.6  
 Dry Density (pcf) = 54.5

**Test Data:**  
 Cell Pressure (psi) = 26.6  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	21.6	0.344	0.239
0.040	33.3	0.688	0.367
0.060	39.6	1.032	0.435
0.080	33.3	1.376	0.364
0.100	35.8	1.720	0.390
0.120	47.8	2.064	0.519
0.140	49.1	2.408	0.531
0.160	50.3	2.752	0.543
0.180	51.6	3.096	0.555
0.200	52.5	3.440	0.562
0.220	53.3	3.784	0.569
0.240	54.0	4.128	0.574
0.260	54.6	4.472	0.578
0.280	55.0	4.816	0.581
0.300	55.5	5.160	0.584
0.320	56.0	5.504	0.587
0.340	56.4	5.848	0.589
0.360	56.8	6.192	0.591
0.380	57.0	6.536	0.591
0.400	57.1	6.880	0.590
0.420	57.3	7.224	0.590
0.440	57.6	7.568	0.590
0.460	57.8	7.912	0.590
0.480	58.0	8.256	0.590
0.500	58.1	8.600	0.589
0.520	58.1	8.944	0.587
0.540	58.3	9.288	0.587
0.560	58.3	9.632	0.584
0.580	58.1	9.976	0.580
0.600	57.8	10.320	0.575



6.521451

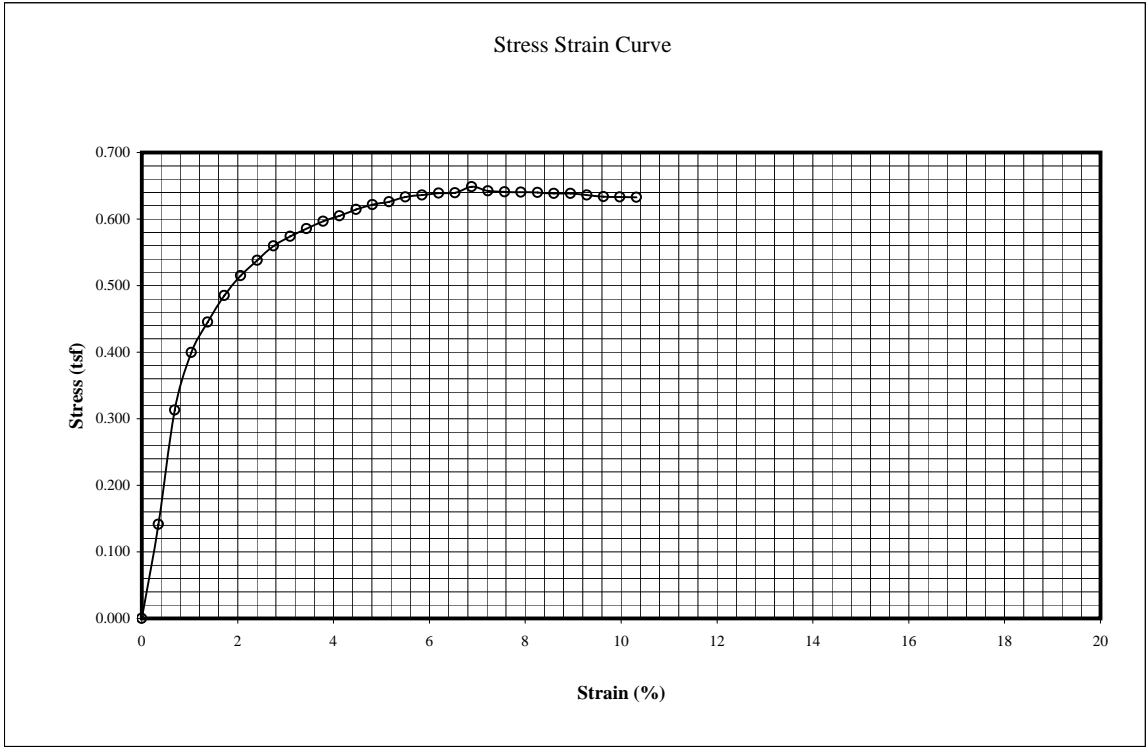
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium gray clay w/silt seams & shell fragments  
**Boring No.:** LAC-2-4  
**Depth (ft):** 45-46  
 Type of Failure: Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 5.8  
 Weight (gm) = 1041.3  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 57.75%  
 Wet Density (pcf) = 105.1  
 Dry Density (pcf) = 66.6  
**Test Data:**  
 Wet wt. = 195.39  
 Dry wt. = 131.96  
 Can wt. = 22.12  
 Cell Pressure (psi) = 26.6  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	12.8	0.344	0.141
0.040	28.4	0.688	0.313
0.060	36.4	1.032	0.400
0.080	40.7	1.376	0.445
0.100	44.5	1.720	0.485
0.120	47.4	2.064	0.515
0.140	49.7	2.408	0.538
0.160	51.9	2.752	0.560
0.180	53.4	3.096	0.574
0.200	54.7	3.440	0.586
0.220	55.9	3.784	0.597
0.240	56.9	4.128	0.605
0.260	58.0	4.472	0.615
0.280	58.9	4.816	0.622
0.300	59.5	5.160	0.626
0.320	60.4	5.504	0.633
0.340	60.9	5.848	0.636
0.360	61.4	6.192	0.639
0.380	61.7	6.536	0.640
0.400	62.8	6.880	0.649
0.420	62.4	7.224	0.642
0.440	62.5	7.568	0.641
0.460	62.7	7.912	0.640
0.480	62.9	8.256	0.640
0.500	63.0	8.600	0.639
0.520	63.2	8.944	0.638
0.540	63.2	9.288	0.636
0.560	63.2	9.632	0.633
0.580	63.4	9.976	0.633
0.600	63.6	10.320	0.633



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium gray sandy clay to sand  
**Boring No.:** LAC-3-3  
**Depth (ft):** 7.5-8.5

Type of Failure: Vertical @ 4%

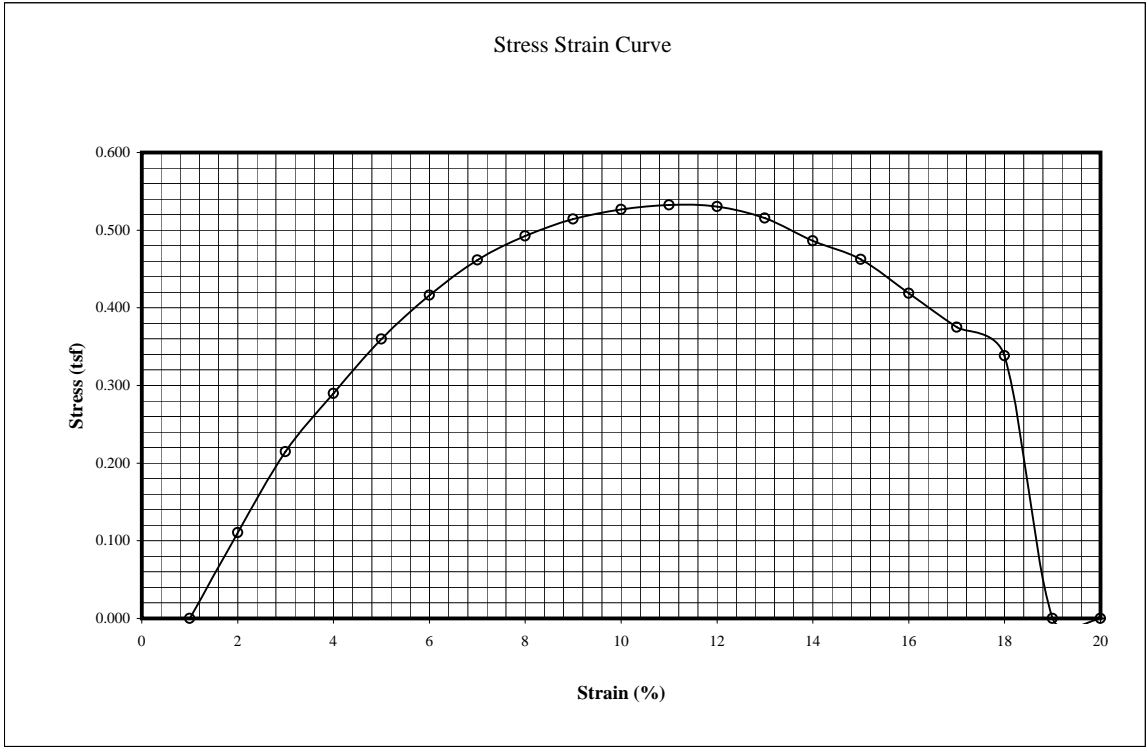
**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1246.1

Wet wt. = 193.85  
 Dry wt. = 164.29  
 Can wt. = 28.69

Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 21.80%  
 Wet Density (pcf) = 125.8  
 Dry Density (pcf) = 103.3

**Test Data:**  
 Cell Pressure (psi) = 4.3  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	10.0	0.344	0.111
0.040	19.5	0.688	0.215
0.060	26.4	1.032	0.290
0.080	32.9	1.376	0.360
0.100	38.2	1.720	0.416
0.120	42.5	2.064	0.462
0.140	45.5	2.408	0.492
0.160	47.7	2.752	0.514
0.180	49.0	3.096	0.527
0.200	49.7	3.440	0.532
0.220	49.7	3.784	0.530
0.240	48.5	4.128	0.516
0.260	45.9	4.472	0.486
0.280	43.8	4.816	0.462
0.300	39.8	5.160	0.419
0.320	35.8	5.504	0.375
0.340	32.4	5.848	0.338
0.360			
0.380			
0.400			
0.420			
0.440			
0.460			
0.480			
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Firm gray sand with clay  
**Boring No.:** LAC-3-4  
**Depth (ft):** 9-11

**Type of Failure:** Bulge @ 7%

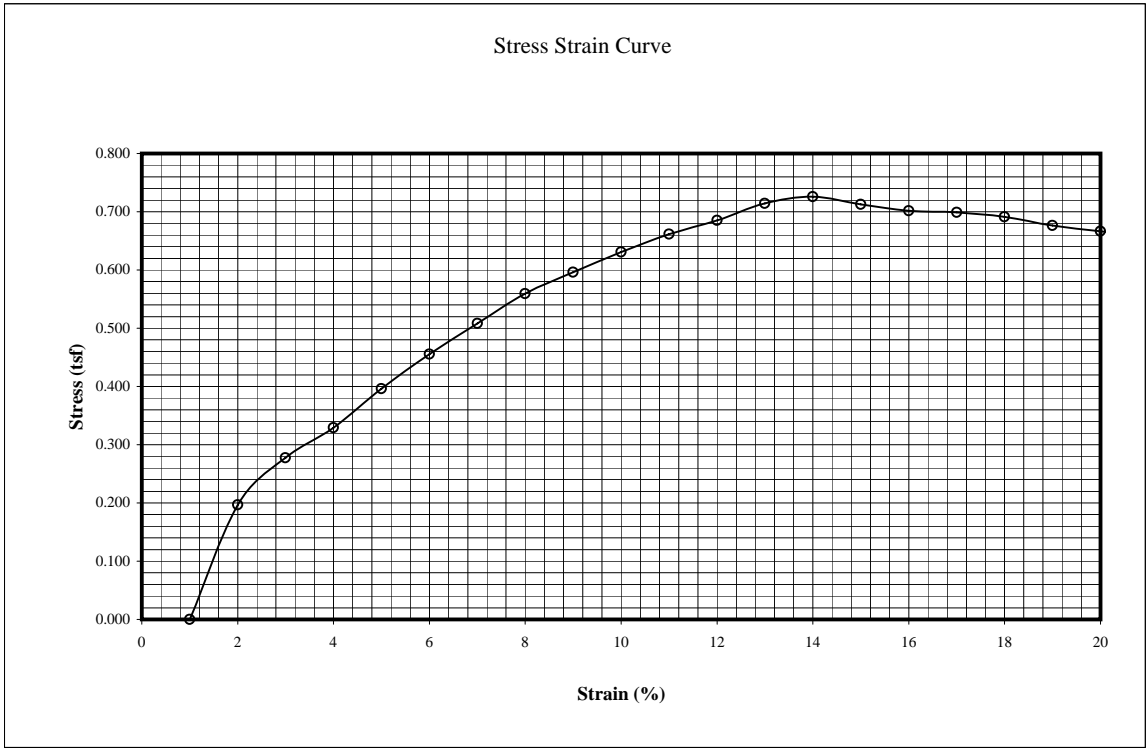
**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1208.9

Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 26.58%  
 Wet Density (pcf) = 122.3  
 Dry Density (pcf) = 96.6

Wet wt. = 151.05  
 Dry wt. = 123.97  
 Can wt. = 22.08

**Test Data:**  
 Cell Pressure (psi) = 5.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	17.8	0.345	0.197
0.040	25.2	0.690	0.278
0.060	30.0	1.034	0.329
0.080	36.2	1.379	0.396
0.100	41.8	1.724	0.456
0.120	46.8	2.069	0.508
0.140	51.7	2.414	0.560
0.160	55.3	2.759	0.596
0.180	58.7	3.103	0.631
0.200	61.8	3.448	0.662
0.220	64.2	3.793	0.685
0.240	67.2	4.138	0.714
0.260	68.5	4.483	0.726
0.280	67.5	4.828	0.712
0.300	66.7	5.172	0.701
0.320	66.7	5.517	0.699
0.340	66.2	5.862	0.691
0.360	65.0	6.207	0.676
0.380	64.3	6.552	0.666
0.400	63.7	6.897	0.658
0.420	62.8	7.241	0.646
0.440			
0.460			
0.480			
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Soft dark gray organic clay with peat  
**Boring No.:** LACW-2-2  
**Depth (ft):** 8.5-9.5

**Type of Failure:** Yield @ 10%

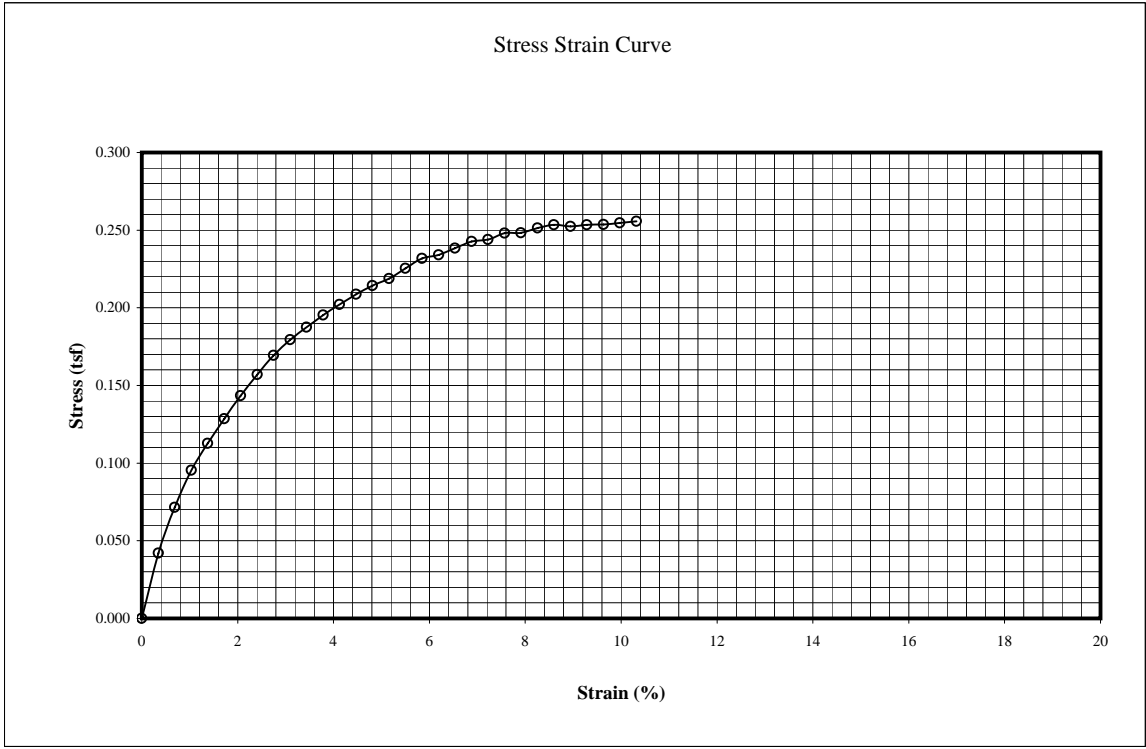
**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 759.7

Wet wt. = 133.17  
 Dry at. = 64.01  
 Moisture Content (%) = 186.97%  
 Can wt. = 27.02

Wet Density (pcf) = 76.7  
 Dry Density (pcf) = 26.7

**Test Data:**  
 Cell Pressure (psi) = 4.3  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	3.8	0.344	0.042
0.040	6.5	0.688	0.072
0.060	8.7	1.032	0.095
0.080	10.3	1.376	0.113
0.100	11.8	1.720	0.129
0.120	13.2	2.064	0.143
0.140	14.5	2.408	0.157
0.160	15.7	2.752	0.169
0.180	16.7	3.096	0.179
0.200	17.5	3.440	0.187
0.220	18.3	3.784	0.195
0.240	19.0	4.128	0.202
0.260	19.7	4.472	0.209
0.280	20.3	4.816	0.214
0.300	20.8	5.160	0.219
0.320	21.5	5.504	0.225
0.340	22.2	5.848	0.232
0.360	22.5	6.192	0.234
0.380	23.0	6.536	0.238
0.400	23.5	6.880	0.243
0.420	23.7	7.224	0.244
0.440	24.2	7.568	0.248
0.460	24.3	7.912	0.248
0.480	24.7	8.256	0.251
0.500	25.0	8.600	0.253
0.520	25.0	8.944	0.252
0.540	25.2	9.288	0.254
0.560	25.3	9.632	0.254
0.580	25.5	9.976	0.255
0.600	25.7	10.320	0.256



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very Soft dark gray organic clay with peat  
**Boring No.:** LACW-2-2  
**Depth (ft):** 9.5-10.5

**Type of Failure:** Yield @ 10%

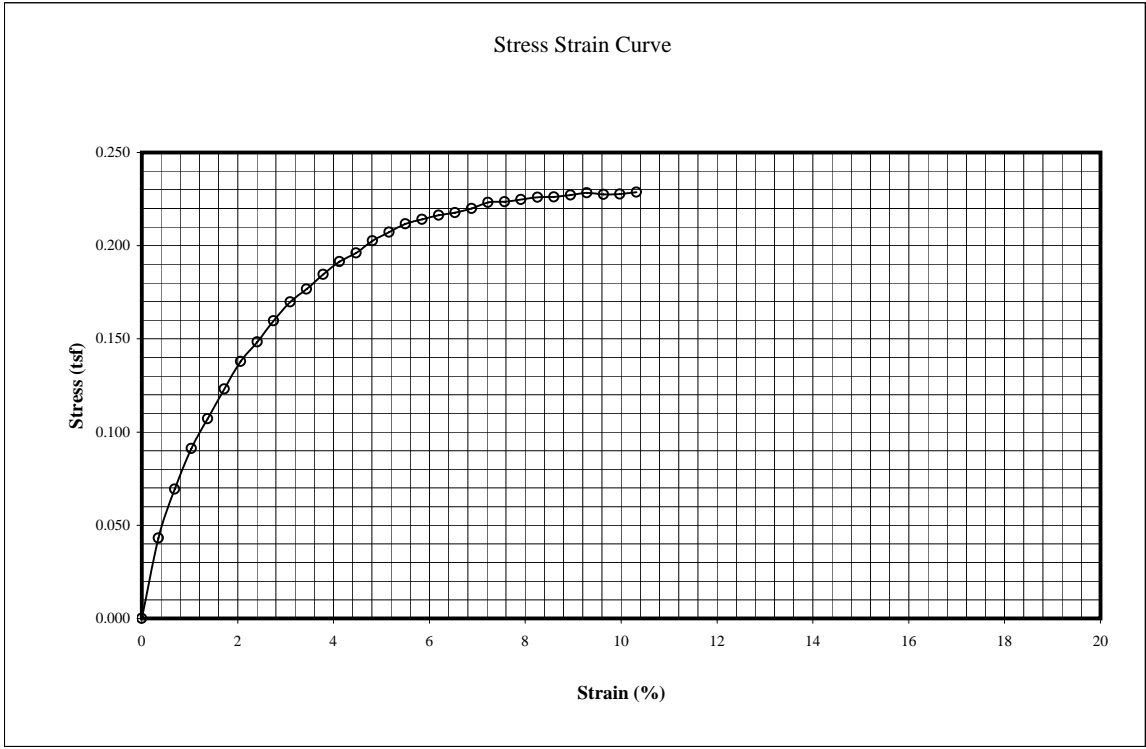
**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 764.5

Wet wt. = 135  
 Dry at. = 70.05  
 Can wt. = 28.93

Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 157.95%  
 Wet Density (pcf) = 77.2  
 Dry Density (pcf) = 29.9

**Test Data:**  
 Cell Pressure (psi) = 4.3  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	3.9	0.344	0.043
0.040	6.3	0.688	0.069
0.060	8.3	1.032	0.091
0.080	9.8	1.376	0.107
0.100	11.3	1.720	0.123
0.120	12.7	2.064	0.138
0.140	13.7	2.408	0.148
0.160	14.8	2.752	0.160
0.180	15.8	3.096	0.170
0.200	16.5	3.440	0.177
0.220	17.3	3.784	0.185
0.240	18.0	4.128	0.191
0.260	18.5	4.472	0.196
0.280	19.2	4.816	0.203
0.300	19.7	5.160	0.207
0.320	20.2	5.504	0.212
0.340	20.5	5.848	0.214
0.360	20.8	6.192	0.216
0.380	21.0	6.536	0.218
0.400	21.3	6.880	0.220
0.420	21.7	7.224	0.223
0.440	21.8	7.568	0.223
0.460	22.0	7.912	0.225
0.480	22.2	8.256	0.226
0.500	22.3	8.600	0.226
0.520	22.5	8.944	0.227
0.540	22.7	9.288	0.228
0.560	22.7	9.632	0.228
0.580	22.8	9.976	0.228
0.600	23.0	10.320	0.229



6.521451



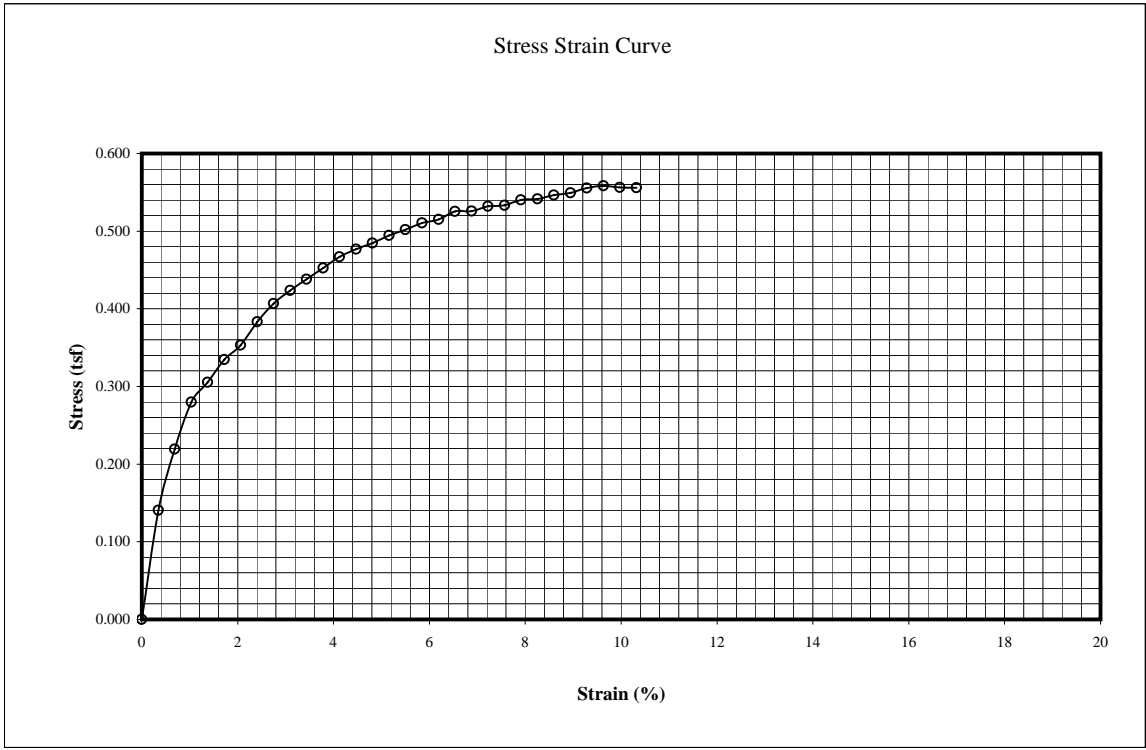
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium dark gray organic clay alt. Layers of sand silt & clay  
**Boring No.:** LACW-3-4  
**Depth (ft):** 10-12  
 Type of Failure: Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 5.8  
 Weight (gm) = 1120.8  
 Wet wt. = 205  
 Dry at. = 145.69  
 Can wt. = 22.42  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 48.11%  
 Wet Density (pcf) = 113.1  
 Dry Density (pcf) = 76.4  
**Test Data:**  
 Cell Pressure (psi) = 6.5  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	12.7	0.344	0.140
0.040	19.9	0.688	0.219
0.060	25.5	1.032	0.280
0.080	27.9	1.376	0.305
0.100	30.7	1.720	0.335
0.120	32.5	2.064	0.353
0.140	35.4	2.408	0.383
0.160	37.7	2.752	0.407
0.180	39.4	3.096	0.423
0.200	40.9	3.440	0.438
0.220	42.4	3.784	0.452
0.240	43.9	4.128	0.467
0.260	45.0	4.472	0.477
0.280	45.9	4.816	0.485
0.300	47.0	5.160	0.494
0.320	47.9	5.504	0.502
0.340	48.9	5.848	0.511
0.360	49.5	6.192	0.515
0.380	50.7	6.536	0.526
0.400	50.9	6.880	0.526
0.420	51.7	7.224	0.532
0.440	52.0	7.568	0.533
0.460	52.9	7.912	0.540
0.480	53.2	8.256	0.541
0.500	53.9	8.600	0.546
0.520	54.4	8.944	0.549
0.540	55.2	9.288	0.555
0.560	55.7	9.632	0.558
0.580	55.7	9.976	0.556
0.600	55.9	10.320	0.556



6.521451

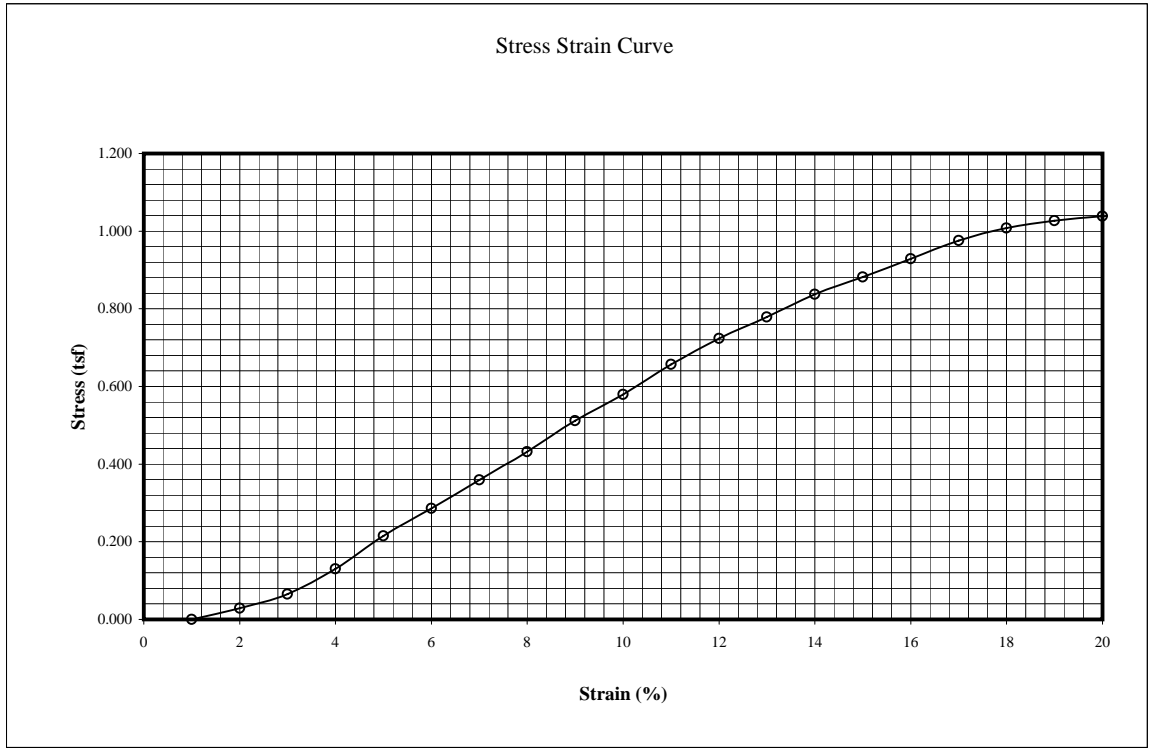
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Stiff dark gray organic w/roots  
**Boring No.:** LACW-4-1  
**Depth (ft):** 3.5-4.5  
**Type of Failure:** Vertical @ 9%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 4.6  
 Weight (gm) = 790.1  
 Wet wt. = 145.27  
 Dry at. = 105.17  
 Can wt. = 28.52  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 52.32%  
 Wet Density (pcf) = 101.7  
 Dry Density (pcf) = 66.7  
**Test Data:**  
 Cell Pressure (psi) =  
 Height Correction = 0.978  
 Proving Ring No. = 9839  
 0.337

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	8	0.439	0.029
0.040	18	0.877	0.065
0.060	36	1.316	0.130
0.080	60	1.754	0.215
0.100	80	2.193	0.286
0.120	101	2.632	0.359
0.140	122	3.070	0.432
0.160	145	3.509	0.511
0.180	165	3.947	0.579
0.200	188	4.386	0.657
0.220	208	4.825	0.724
0.240	225	5.263	0.779
0.260	243	5.702	0.838
0.280	257	6.140	0.882
0.300	272	6.579	0.929
0.320	287	7.018	0.975
0.340	298	7.456	1.008
0.360	305	7.895	1.027
0.380	310	8.333	1.039
0.400	314	8.772	1.047
0.420	314	9.211	1.042
0.440			
0.460			
0.480			
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



2.197729

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium gray organic clay w/wood & peat  
**Boring No.:** LACW-4-3  
**Depth (ft):** 7.5-8.5

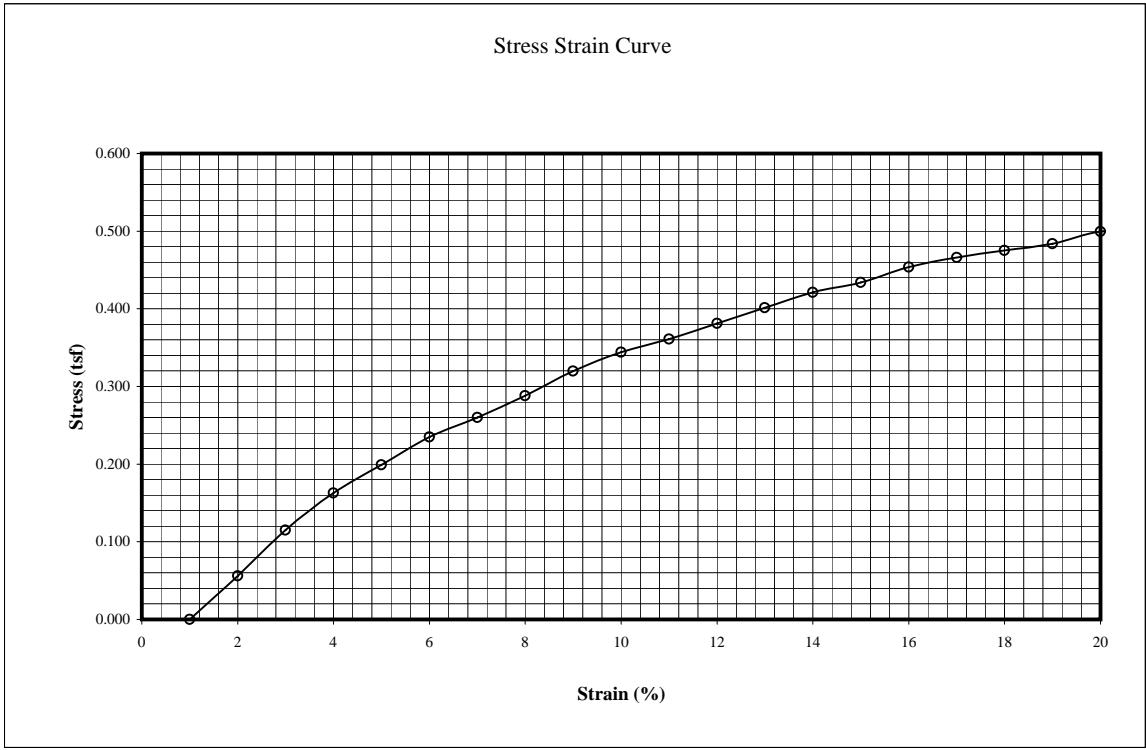
**Type of Failure:** Vertical @ 7%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 858.9

**Test Data:**  
 Wet wt. = 134.15  
 Dry at. = 78.49  
 Can wt. = 27.86  
 Cell Pressure (psi) =  
 Height Correction = 1.000  
 Proving Ring No. = 9839  
 0.337

Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 109.93%  
 Wet Density (pcf) = 86.7  
 Dry Density (pcf) = 41.3

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	15	0.344	0.056
0.040	31	0.688	0.115
0.060	44	1.032	0.163
0.080	54	1.376	0.199
0.100	64	1.720	0.235
0.120	71	2.064	0.260
0.140	79	2.408	0.288
0.160	88	2.752	0.320
0.180	95	3.096	0.344
0.200	100	3.440	0.361
0.220	106	3.784	0.381
0.240	112	4.128	0.401
0.260	118	4.472	0.421
0.280	122	4.816	0.434
0.300	128	5.160	0.454
0.320	132	5.504	0.466
0.340	135	5.848	0.475
0.360	138	6.192	0.484
0.380	143	6.536	0.500
0.400	143	6.880	0.498
0.420	143	7.224	0.496
0.440			
0.460			
0.480			
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



2.197729

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

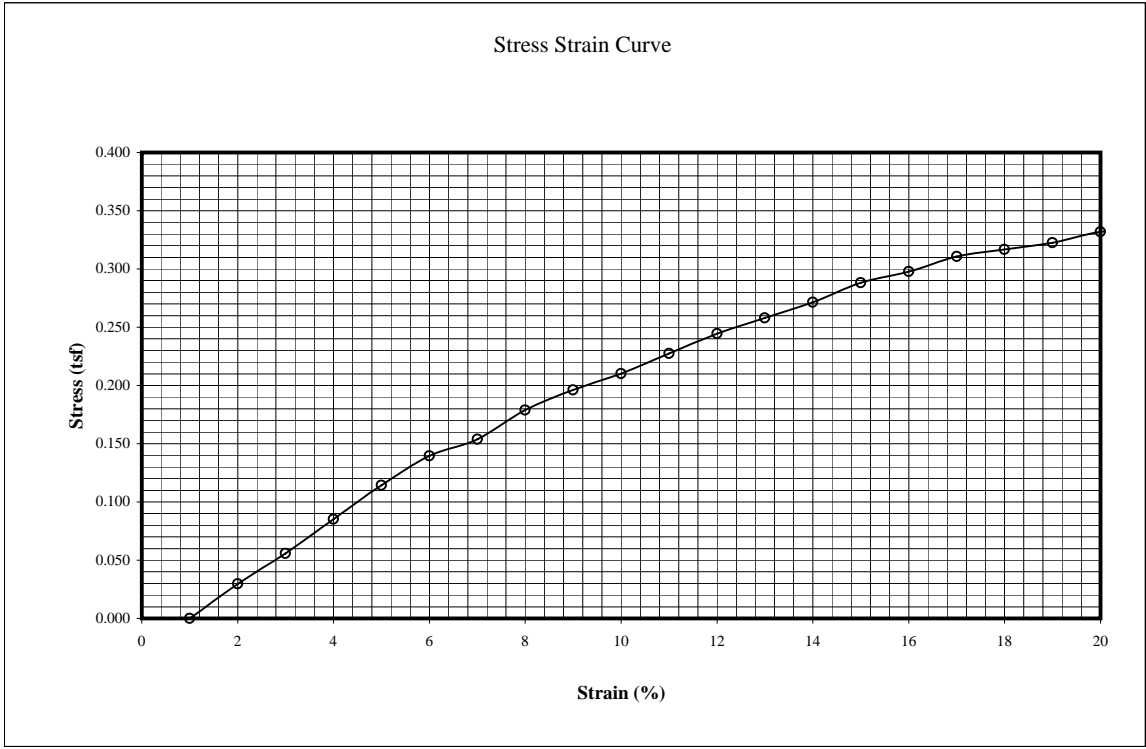
**Material :** Soft gray clay with peat & wood  
**Boring No.:** LACW-4-3  
**Depth (ft):** 8.5-9.5

**Type of Failure:** Vertical @ 8%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 836.6

**Test Data:**  
 Wet wt. = 105.4  
 Dry at. = 59.13  
 Moisture Content (%) = 125.09%  
 Can wt. = 22.14  
 Cell Pressure (psi) =  
 Height Correction = 1.000  
 Proving Ring No. = 9839  
 Dry Density (pcf) = 37.5  
 Wet Density (pcf) = 84.4  
 Dry Density (pcf) = 37.5  
 0.337

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	8	0.344	0.030
0.040	15	0.688	0.056
0.060	23	1.032	0.085
0.080	31	1.376	0.114
0.100	38	1.720	0.140
0.120	42	2.064	0.154
0.140	49	2.408	0.179
0.160	54	2.752	0.196
0.180	58	3.096	0.210
0.200	63	3.440	0.227
0.220	68	3.784	0.245
0.240	72	4.128	0.258
0.260	76	4.472	0.271
0.280	81	4.816	0.288
0.300	84	5.160	0.298
0.320	88	5.504	0.311
0.340	90	5.848	0.317
0.360	92	6.192	0.323
0.380	95	6.536	0.332
0.400	96	6.880	0.334
0.420	97	7.224	0.336
0.440	98	7.568	0.339
0.460	98	7.912	0.337
0.480	98	8.256	0.336
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



2.197729

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

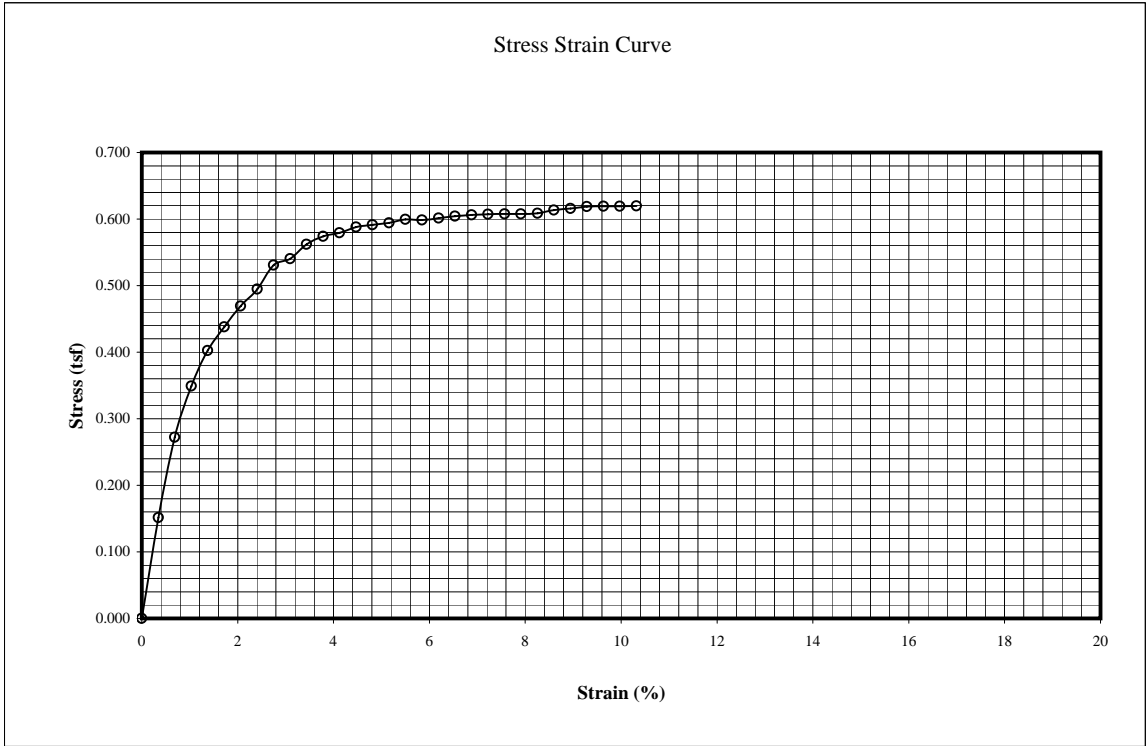
**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium gray clay w/fine sand at bottom  
**Boring No.:** LACS-1-3  
**Depth (ft):** 8.5-10.5

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1030.8

**Test Data:**  
 Type of Failure: Yield @ 10%  
 Wet wt. = 223.35  
 Dry wt. = 174.08  
 Moisture Content (%) = 32.46%  
 Can wt. = 22.3  
 Cell Pressure (psi) = 4.2  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 Dry Density (pcf) = 104.0  
 Wet Density (pcf) = 104.0  
 Dry Density (pcf) = 78.5

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	13.7	0.344	0.151
0.040	24.7	0.688	0.272
0.060	31.8	1.032	0.349
0.080	36.8	1.376	0.403
0.100	40.2	1.720	0.438
0.120	43.2	2.064	0.469
0.140	45.7	2.408	0.495
0.160	49.2	2.752	0.531
0.180	50.3	3.096	0.541
0.200	52.5	3.440	0.562
0.220	53.8	3.784	0.574
0.240	54.5	4.128	0.580
0.260	55.5	4.472	0.588
0.280	56.0	4.816	0.591
0.300	56.5	5.160	0.594
0.320	57.2	5.504	0.599
0.340	57.3	5.848	0.598
0.360	57.8	6.192	0.601
0.380	58.3	6.536	0.604
0.400	58.7	6.880	0.606
0.420	59.0	7.224	0.607
0.440	59.3	7.568	0.608
0.460	59.5	7.912	0.608
0.480	59.8	8.256	0.608
0.500	60.5	8.600	0.613
0.520	61.0	8.944	0.616
0.540	61.5	9.288	0.619
0.560	61.8	9.632	0.619
0.580	62.0	9.976	0.619
0.600	62.3	10.320	0.620



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Stiff gray clay  
**Boring No.:** LACS-3-1  
**Depth (ft):** 5-7

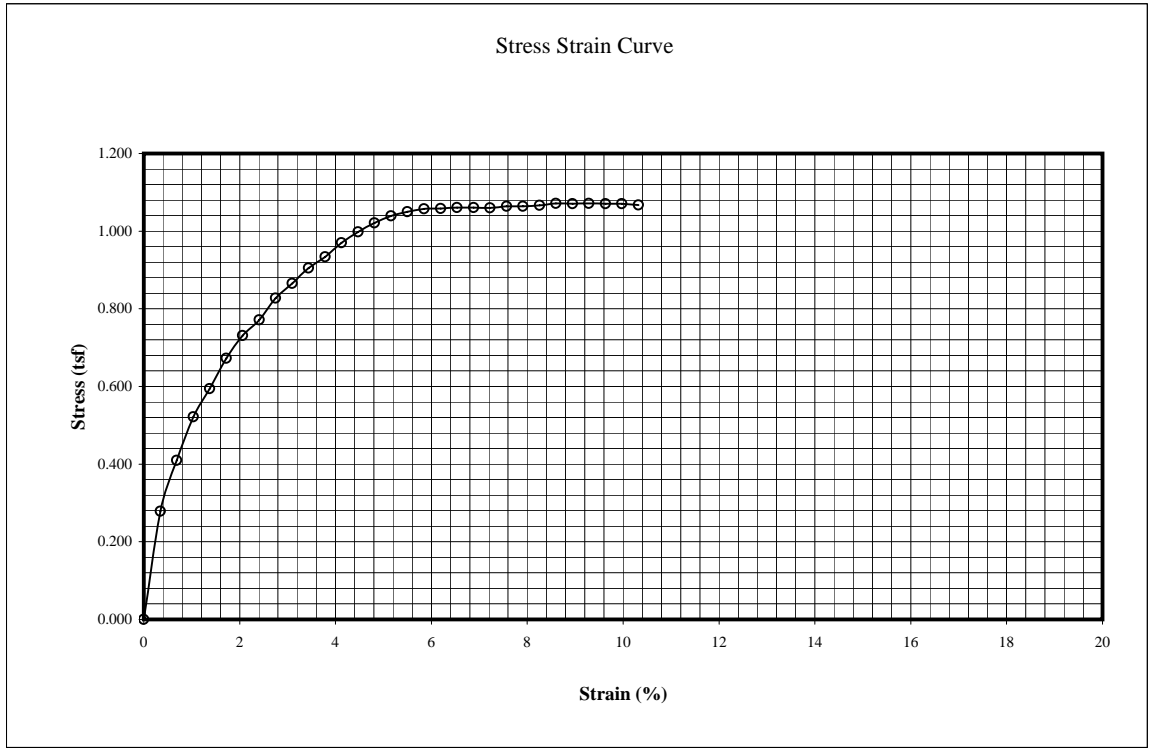
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1160.0

Wet wt. = 218.55  
 Dry wt. = 177.01  
 Moisture Content (%) = 28.06%  
 Can wt. = 28.96  
 Wet Density (pcf) = 117.1  
 Dry Density (pcf) = 91.4

**Test Data:**  
 Cell Pressure (psi) = 3.5  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	25.2	0.344	0.279
0.040	37.2	0.688	0.410
0.060	47.5	1.032	0.521
0.080	54.3	1.376	0.594
0.100	61.7	1.720	0.673
0.120	67.3	2.064	0.731
0.140	71.3	2.408	0.772
0.160	76.7	2.752	0.827
0.180	80.5	3.096	0.865
0.200	84.5	3.440	0.905
0.220	87.5	3.784	0.934
0.240	91.2	4.128	0.970
0.260	94.2	4.472	0.998
0.280	96.7	4.816	1.021
0.300	98.8	5.160	1.039
0.320	100.2	5.504	1.050
0.340	101.3	5.848	1.058
0.360	101.7	6.192	1.058
0.380	102.3	6.536	1.060
0.400	102.7	6.880	1.061
0.420	103.0	7.224	1.060
0.440	103.8	7.568	1.064
0.460	104.2	7.912	1.064
0.480	104.8	8.256	1.066
0.500	105.7	8.600	1.071
0.520	106.0	8.944	1.070
0.540	106.5	9.288	1.071
0.560	106.8	9.632	1.070
0.580	107.2	9.976	1.070
0.600	107.3	10.320	1.067



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Soft gray caly  
**Boring No.:** LACS-3-2  
**Depth (ft):** 7.5-9.5

**Type of Failure:** Bulge @ 8%

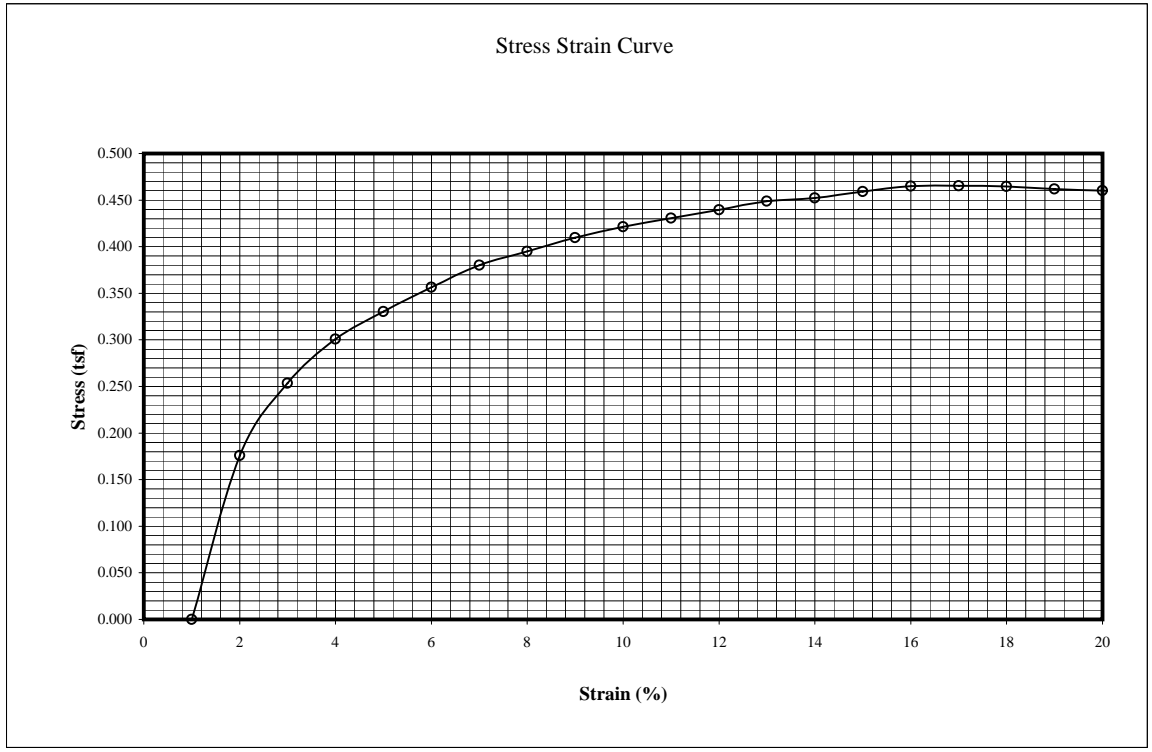
**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 984.9

Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 50.25%  
 Wet Density (pcf) = 99.4  
 Dry Density (pcf) = 66.2

Wet wt. = 224.64  
 Dry wt. = 158.43  
 Can wt. = 26.67

**Test Data:**  
 Cell Pressure (psi) = 5.0  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	15.9	0.344	0.176
0.040	23.0	0.688	0.253
0.060	27.4	1.032	0.301
0.080	30.2	1.376	0.330
0.100	32.7	1.720	0.356
0.120	35.0	2.064	0.380
0.140	36.5	2.408	0.395
0.160	38.0	2.752	0.410
0.180	39.2	3.096	0.421
0.200	40.2	3.440	0.431
0.220	41.2	3.784	0.440
0.240	42.2	4.128	0.449
0.260	42.7	4.472	0.452
0.280	43.5	4.816	0.459
0.300	44.2	5.160	0.465
0.320	44.4	5.504	0.465
0.340	44.5	5.848	0.465
0.360	44.4	6.192	0.462
0.380	44.4	6.536	0.460
0.400	44.4	6.880	0.459
0.420	44.4	7.224	0.457
0.440	44.0	7.568	0.451
0.460	43.5	7.912	0.444
0.480	43.2	8.256	0.440
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



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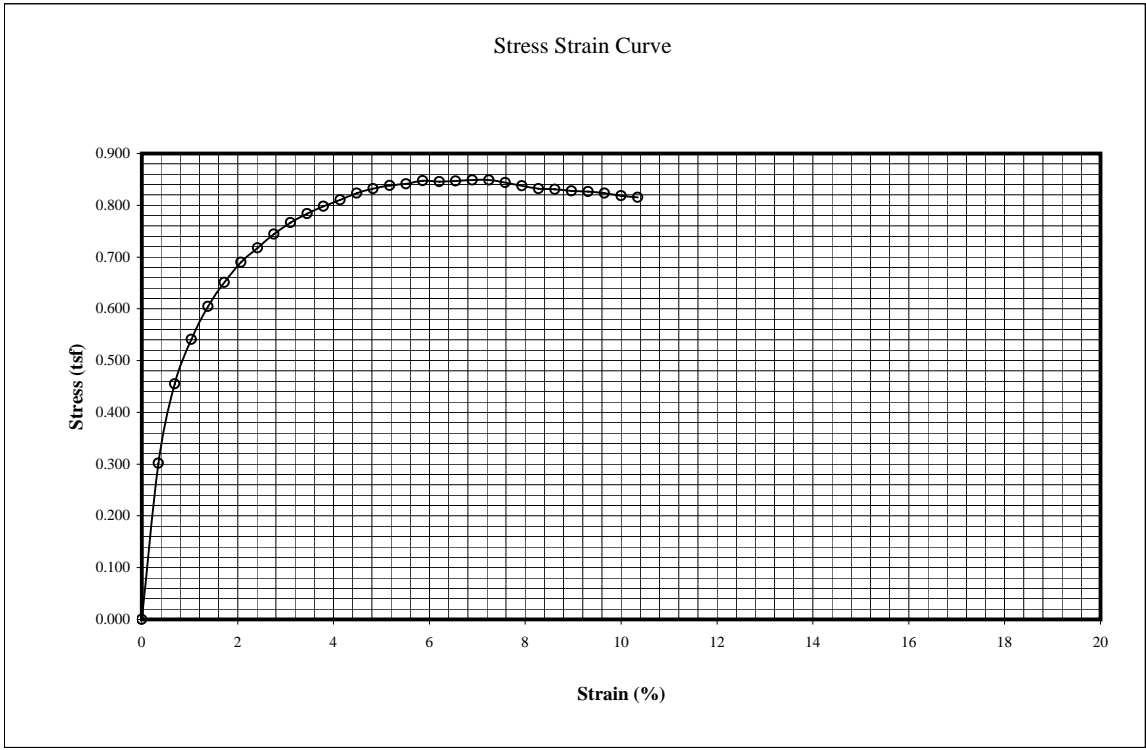
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium gray clay      **Type of Failure:** Yield @ 10%  
**Boring No.:** IHNCS-1-1  
**Depth (ft):** 7.5-9.5

**Sample Data:**  
 Diameter (in.) = 2.875      Wet wt. = 98.15  
 Height (in.) = 5.8      Area (in<sup>2</sup>) = 6.492      Dry wt. = 70.36  
 Weight (gm) = 1009.3      Moisture Content (%) = 62.77%      Can wt. = 26.09  
 Wet Density (pcf) = 102.1      **Test Data:**  
 Dry Density (pcf) = 62.7      Cell Pressure (psi) = 4.0  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	27.3	0.345	0.302
0.040	41.3	0.690	0.455
0.060	49.3	1.034	0.541
0.080	55.3	1.379	0.605
0.100	59.7	1.724	0.651
0.120	63.5	2.069	0.690
0.140	66.3	2.414	0.718
0.160	69.0	2.759	0.744
0.180	71.3	3.103	0.766
0.200	73.2	3.448	0.784
0.220	74.8	3.793	0.798
0.240	76.2	4.138	0.810
0.260	77.7	4.483	0.823
0.280	78.8	4.828	0.832
0.300	79.7	5.172	0.838
0.320	80.3	5.517	0.841
0.340	81.2	5.862	0.848
0.360	81.3	6.207	0.846
0.380	81.7	6.552	0.847
0.400	82.2	6.897	0.849
0.420	82.5	7.241	0.849
0.440	82.3	7.586	0.843
0.460	82.0	7.931	0.837
0.480	81.8	8.276	0.832
0.500	82.0	8.621	0.831
0.520	82.0	8.966	0.828
0.540	82.2	9.310	0.827
0.560	82.2	9.655	0.824
0.580	82.0	10.000	0.818
0.600	82.0	10.345	0.815



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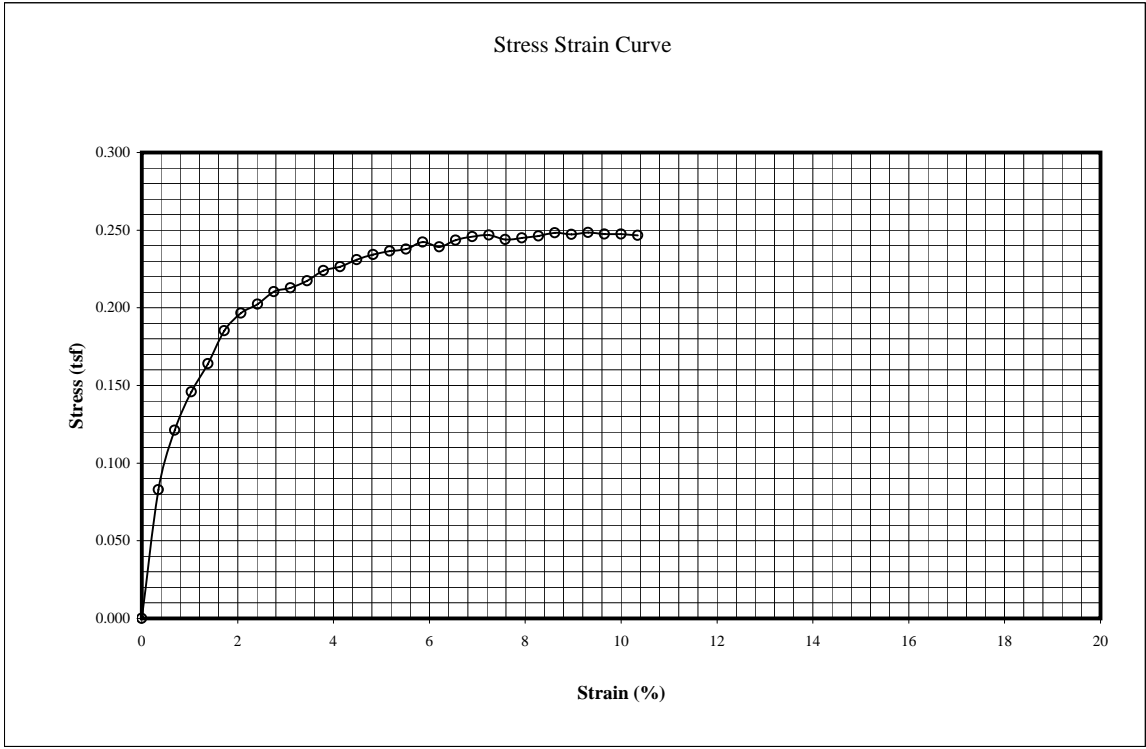
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Soft gray clay w/wood  
**Boring No.:** IHNCS-1-3  
**Depth (ft):** 12-13  
 Type of Failure: Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 5.8  
 Weight (gm) = 890.0  
 Wet wt. = 124.85  
 Dry at. = 74.21  
 Can wt. = 20.87  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 94.94%  
 Wet Density (pcf) = 90.0  
 Dry Density (pcf) = 46.2  
**Test Data:**  
 Cell Pressure (psi) = 7.4  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	7.5	0.345	0.083
0.040	11.0	0.690	0.121
0.060	13.3	1.034	0.146
0.080	15.0	1.379	0.164
0.100	17.0	1.724	0.185
0.120	18.1	2.069	0.197
0.140	18.7	2.414	0.202
0.160	19.5	2.759	0.210
0.180	19.8	3.103	0.213
0.200	20.3	3.448	0.217
0.220	21.0	3.793	0.224
0.240	21.3	4.138	0.226
0.260	21.8	4.483	0.231
0.280	22.2	4.828	0.234
0.300	22.5	5.172	0.237
0.320	22.7	5.517	0.238
0.340	23.2	5.862	0.242
0.360	23.0	6.207	0.239
0.380	23.5	6.552	0.244
0.400	23.8	6.897	0.246
0.420	24.0	7.241	0.247
0.440	23.8	7.586	0.244
0.460	24.0	7.931	0.245
0.480	24.2	8.276	0.246
0.500	24.5	8.621	0.248
0.520	24.5	8.966	0.247
0.540	24.7	9.310	0.248
0.560	24.7	9.655	0.247
0.580	24.8	10.000	0.248
0.600	24.8	10.345	0.247



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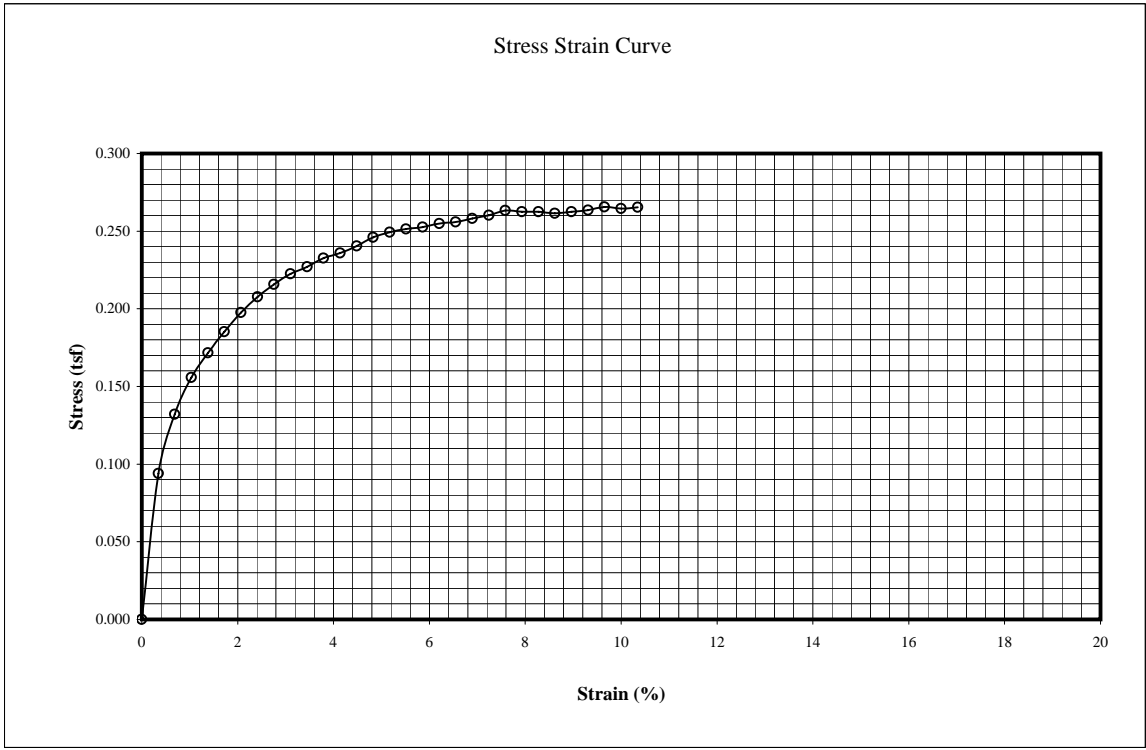
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Soft gray clay w/wood  
**Boring No.:** IHNCS-1-3  
**Depth (ft):** 13-14  
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 847.5  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 94.48%  
 Wet Density (pcf) = 85.7  
 Dry Density (pcf) = 44.1  
**Test Data:**  
 Wet wt. = 130.39  
 Dry wt. = 77.82  
 Can wt. = 22.18  
 Cell Pressure (psi) = 8.0  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	8.5	0.345	0.094
0.040	12.0	0.690	0.132
0.060	14.2	1.034	0.156
0.080	15.7	1.379	0.172
0.100	17.0	1.724	0.185
0.120	18.2	2.069	0.198
0.140	19.2	2.414	0.208
0.160	20.0	2.759	0.216
0.180	20.7	3.103	0.222
0.200	21.2	3.448	0.227
0.220	21.8	3.793	0.233
0.240	22.2	4.138	0.236
0.260	22.7	4.483	0.240
0.280	23.3	4.828	0.246
0.300	23.7	5.172	0.249
0.320	24.0	5.517	0.251
0.340	24.2	5.862	0.253
0.360	24.5	6.207	0.255
0.380	24.7	6.552	0.256
0.400	25.0	6.897	0.258
0.420	25.3	7.241	0.260
0.440	25.7	7.586	0.263
0.460	25.7	7.931	0.262
0.480	25.8	8.276	0.262
0.500	25.8	8.621	0.261
0.520	26.0	8.966	0.262
0.540	26.2	9.310	0.264
0.560	26.5	9.655	0.266
0.580	26.5	10.000	0.264
0.600	26.7	10.345	0.265



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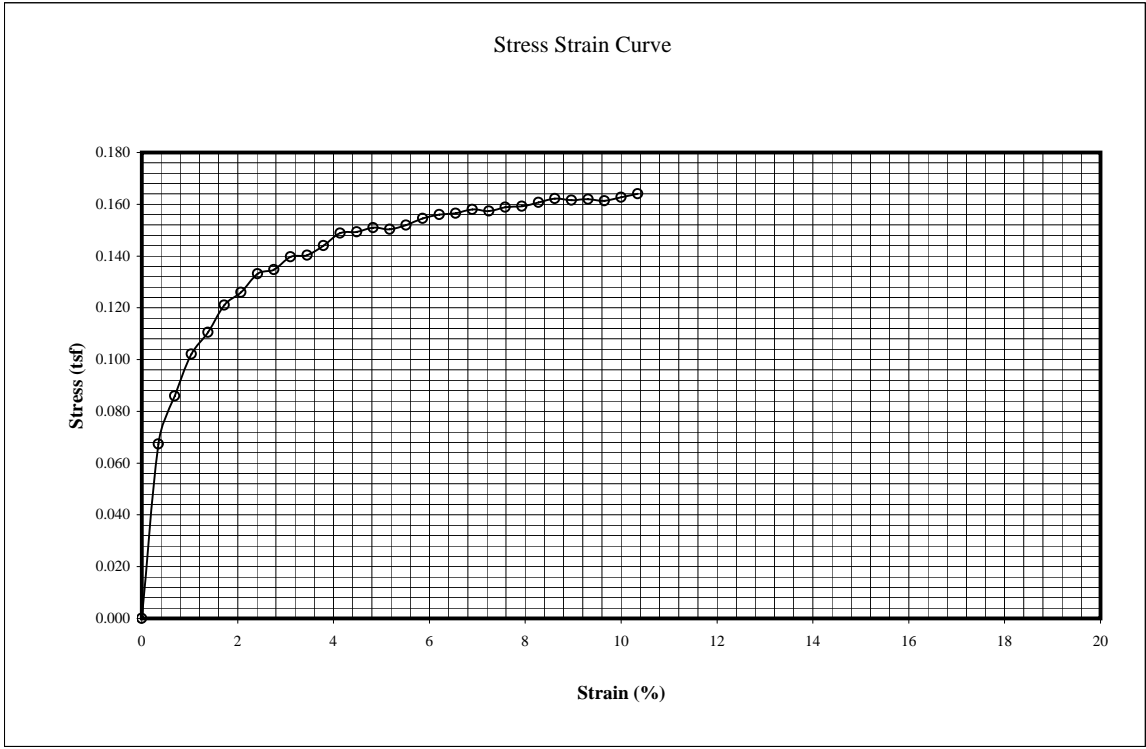
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray clay w/peat  
**Boring No.:** IHNCS-3-2  
**Depth (ft):** 11.5-12.5  
 Type of Failure: Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 5.8  
 Weight (gm) = 950.1  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 78.30%  
 Wet Density (pcf) = 96.1  
 Dry Density (pcf) = 53.9  
**Test Data:**  
 Wet wt. = 136.01  
 Dry wt. = 85.46  
 Can wt. = 20.9  
 Cell Pressure (psi) = 7.1  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	6.1	0.345	0.067
0.040	7.8	0.690	0.086
0.060	9.3	1.034	0.102
0.080	10.1	1.379	0.110
0.100	11.1	1.724	0.121
0.120	11.6	2.069	0.126
0.140	12.3	2.414	0.133
0.160	12.5	2.759	0.135
0.180	13.0	3.103	0.140
0.200	13.1	3.448	0.140
0.220	13.5	3.793	0.144
0.240	14.0	4.138	0.149
0.260	14.1	4.483	0.149
0.280	14.3	4.828	0.151
0.300	14.3	5.172	0.150
0.320	14.5	5.517	0.152
0.340	14.8	5.862	0.155
0.360	15.0	6.207	0.156
0.380	15.1	6.552	0.156
0.400	15.3	6.897	0.158
0.420	15.3	7.241	0.157
0.440	15.5	7.586	0.159
0.460	15.6	7.931	0.159
0.480	15.8	8.276	0.161
0.500	16.0	8.621	0.162
0.520	16.0	8.966	0.162
0.540	16.1	9.310	0.162
0.560	16.1	9.655	0.161
0.580	16.3	10.000	0.163
0.600	16.5	10.345	0.164



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Very soft gray clay  
**Boring No.:** IHNCS-3-2  
**Depth (ft):** 12.5-13.5

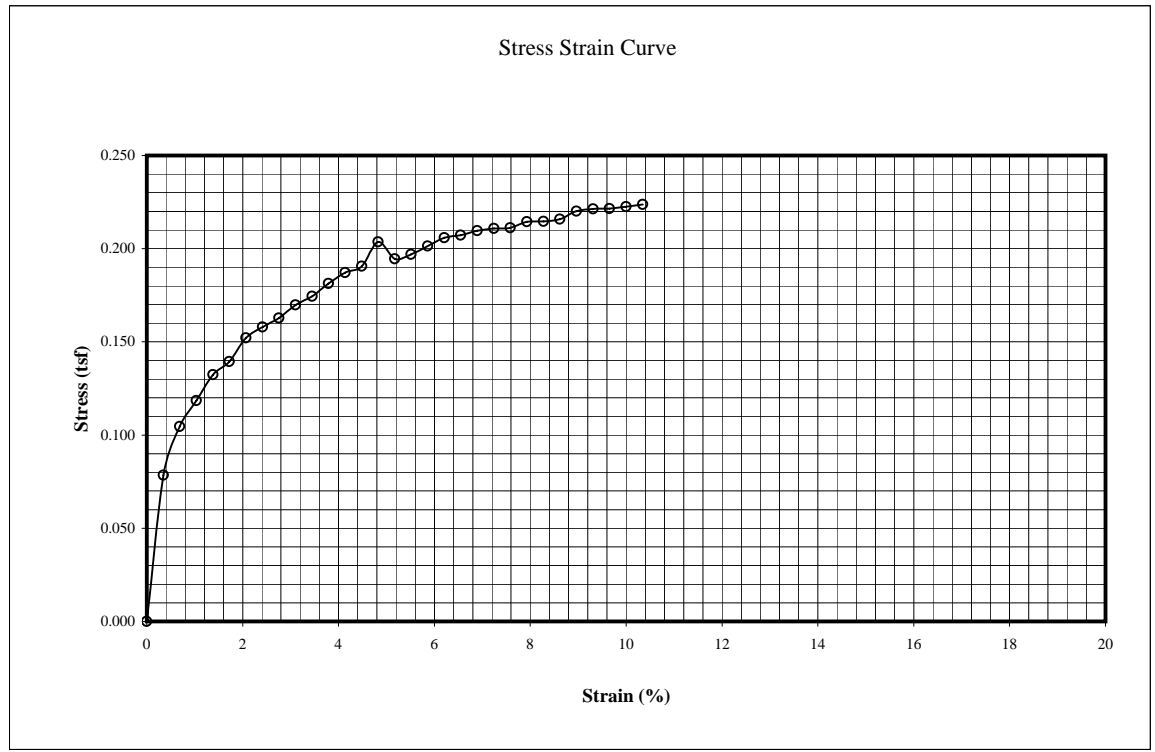
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1001.6

Wet wt. = 133.27  
 Dry at. = 95.32  
 Moisture Content (%) = 57.18%  
 Can wt. = 28.95  
 Wet Density (pcf) = 101.3  
 Dry Density (pcf) = 64.5

**Test Data:**  
 Cell Pressure (psi) = 7.7  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	7.1	0.345	0.078
0.040	9.5	0.690	0.105
0.060	10.8	1.034	0.119
0.080	12.1	1.379	0.132
0.100	12.8	1.724	0.140
0.120	14.0	2.069	0.152
0.140	14.6	2.414	0.158
0.160	15.1	2.759	0.163
0.180	15.8	3.103	0.170
0.200	16.3	3.448	0.175
0.220	17.0	3.793	0.181
0.240	17.6	4.138	0.187
0.260	18.0	4.483	0.191
0.280	19.3	4.828	0.204
0.300	18.5	5.172	0.195
0.320	18.8	5.517	0.197
0.340	19.3	5.862	0.201
0.360	19.8	6.207	0.206
0.380	20.0	6.552	0.207
0.400	20.3	6.897	0.210
0.420	20.5	7.241	0.211
0.440	20.6	7.586	0.211
0.460	21.0	7.931	0.214
0.480	21.1	8.276	0.215
0.500	21.3	8.621	0.216
0.520	21.8	8.966	0.220
0.540	22.0	9.310	0.221
0.560	22.1	9.655	0.221
0.580	22.3	10.000	0.223
0.600	22.5	10.345	0.224



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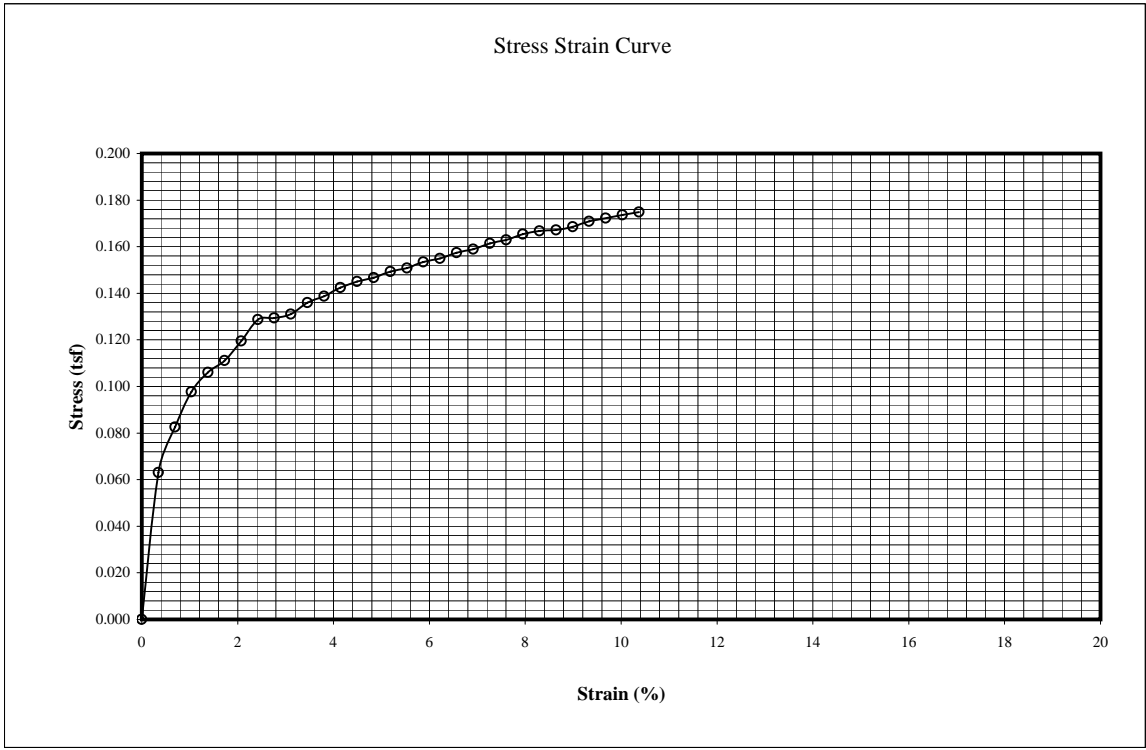
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray & dark gray clay w/peat  
**Boring No.:** IHNCN-1-3  
**Depth (ft):** 10-12  
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 962.5  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 67.92%  
 Wet Density (pcf) = 97.6  
 Dry Density (pcf) = 58.1  
**Wet wt.** 182.11  
**Dry wt.** 119.39  
**Can wt.** 27.05  
**Test Data:**  
 Cell Pressure (psi) = 6.5  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	5.7	0.346	0.063
0.040	7.5	0.691	0.083
0.060	8.9	1.037	0.098
0.080	9.7	1.383	0.106
0.100	10.2	1.729	0.111
0.120	11.0	2.074	0.119
0.140	11.9	2.420	0.129
0.160	12.0	2.766	0.129
0.180	12.2	3.111	0.131
0.200	12.7	3.457	0.136
0.220	13.0	3.803	0.139
0.240	13.4	4.149	0.142
0.260	13.7	4.494	0.145
0.280	13.9	4.840	0.147
0.300	14.2	5.186	0.149
0.320	14.4	5.532	0.151
0.340	14.7	5.877	0.153
0.360	14.9	6.223	0.155
0.380	15.2	6.569	0.157
0.400	15.4	6.914	0.159
0.420	15.7	7.260	0.161
0.440	15.9	7.606	0.163
0.460	16.2	7.952	0.165
0.480	16.4	8.297	0.167
0.500	16.5	8.643	0.167
0.520	16.7	8.989	0.169
0.540	17.0	9.334	0.171
0.560	17.2	9.680	0.172
0.580	17.4	10.026	0.174
0.600	17.6	10.372	0.175



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

Project Name: **Levee Study**  
 File No.: **06-1004**

Material : **Stiff brown slightly silty clay w/stone and gravel**  
 Boring No.: **17-2-1**  
 Depth (ft): **1-3**

Type of Failure: **Multi @ 8%**

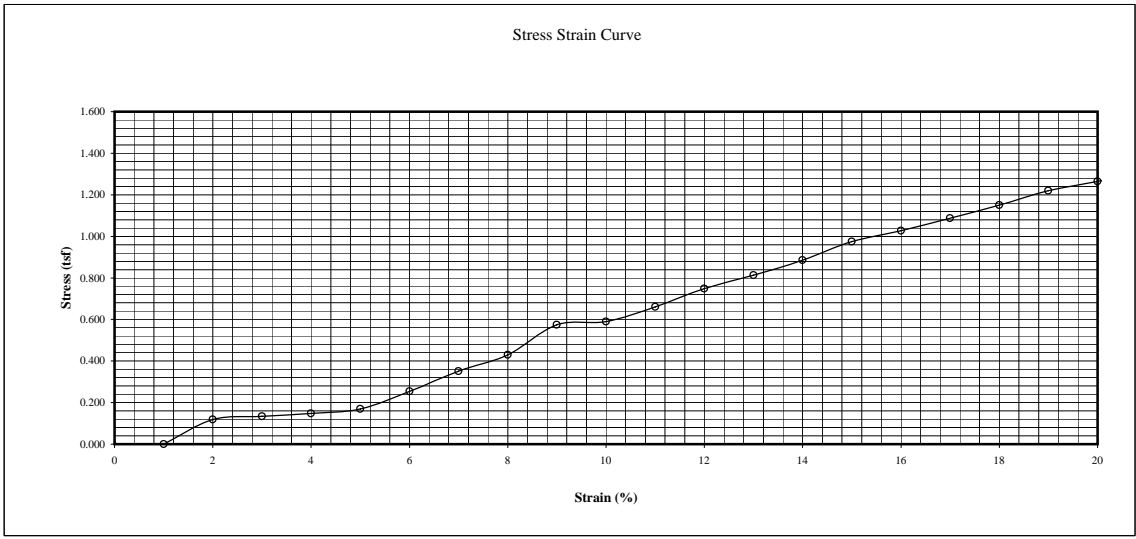
**Sample Data:**  
 Diameter (in.) = **2.875**  
 Height (in) = **5.8**  
 Weight (gm) = **1212.8**

Area (in<sup>2</sup>) = **6.492**  
 Moisture Content (%) = **21.66%**  
 Wet Density (pcf) = **122.7**  
 Dry Density (pcf) = **100.9**

Wet wt. = **173.86**  
 Dry wt. = **148.06**  
 Can wt. = **28.96**

**Test Data:**  
 Cell Pressure (psi) = **0.0**  
 Height Correction = **1.000**  
 Proving Ring No. = **9839**  
**0.337**

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	32	0.345	0.119
0.040	36	0.690	0.134
0.060	40	1.034	0.148
0.080	46	1.379	0.170
0.100	69	1.724	0.253
0.120	96	2.069	0.351
0.140	118	2.414	0.430
0.160	158	2.759	0.574
0.180	163	3.103	0.590
0.200	183	3.448	0.660
0.220	208	3.793	0.748
0.240	227	4.138	0.813
0.260	248	4.483	0.885
0.280	274	4.828	0.975
0.300	290	5.172	1.028
0.320	308	5.517	1.088
0.340	327	5.862	1.150
0.360	348	6.207	1.220
0.380	362	6.552	1.264
0.400	378	6.897	1.315
0.420	393	7.241	1.362
0.440	406	7.586	1.402
0.460	416	7.931	1.431
0.480	423	8.276	1.450
0.500	428	8.621	1.462
0.520	428	8.966	1.456
0.540			
0.560			
0.580			
0.600			



2.197729025

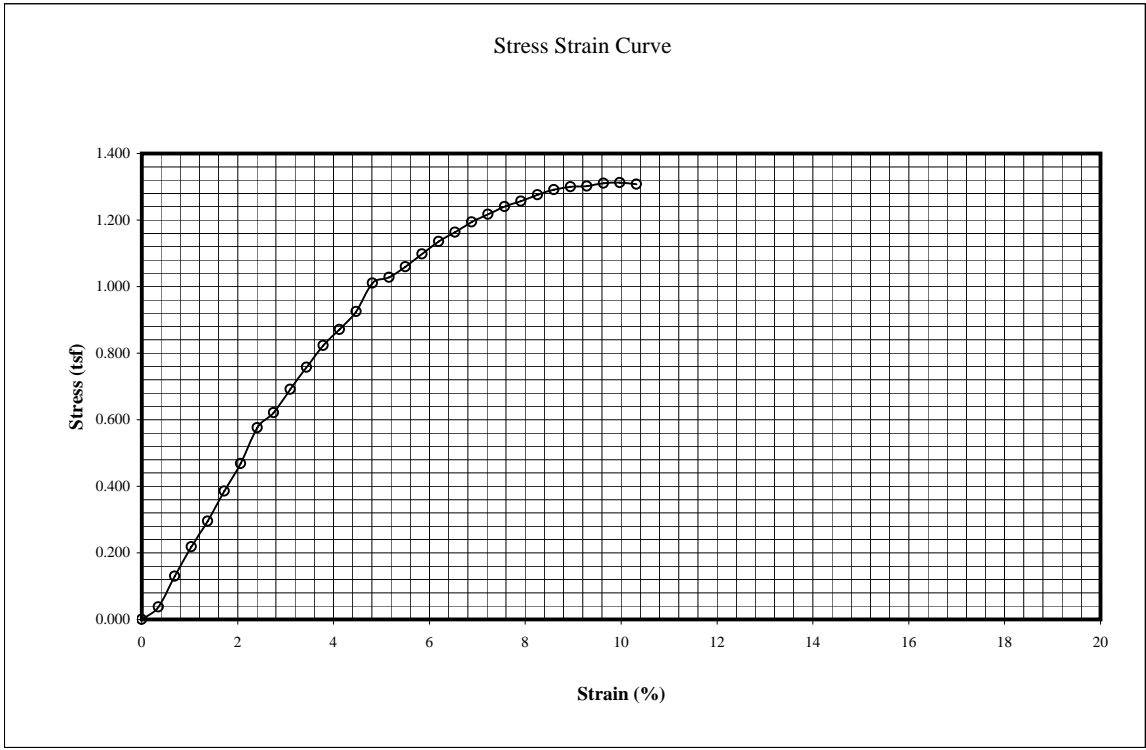
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Still dark gray organic clay to gray & tan clay w/1/2-1" silt layer  
**Boring No.:** 17-2-2  
**Depth (ft):** 4-6 top  
 Type of Failure: Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1046.9  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 40.88%  
 Wet Density (pcf) = 105.7  
 Dry Density (pcf) = 75.0  
**Wet wt.** 130.16  
**Dry wt.** 98.84  
**Can wt.** 22.22  
**Test Data:**  
 Cell Pressure (psi) = 0.0  
 Height Correction = 1.000  
 Proving Ring No. = 9839  
 0.337

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	10	0.344	0.037
0.040	35	0.688	0.130
0.060	59	1.032	0.218
0.080	80	1.376	0.295
0.100	105	1.720	0.386
0.120	128	2.064	0.469
0.140	158	2.408	0.576
0.160	171	2.752	0.622
0.180	191	3.096	0.692
0.200	210	3.440	0.758
0.220	229	3.784	0.824
0.240	243	4.128	0.871
0.260	259	4.472	0.925
0.280	284	4.816	1.010
0.300	290	5.160	1.028
0.320	300	5.504	1.060
0.340	312	5.848	1.098
0.360	324	6.192	1.136
0.380	333	6.536	1.163
0.400	343	6.880	1.194
0.420	351	7.224	1.217
0.440	359	7.568	1.240
0.460	365	7.912	1.256
0.480	372	8.256	1.276
0.500	378	8.600	1.291
0.520	382	8.944	1.300
0.540	384	9.288	1.302
0.560	388	9.632	1.311
0.580	390	9.976	1.312
0.600	390	10.320	1.307



2.197729

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Medium gray clay w/ silt seams and layers 1/2-1"  
**Boring No.:** 17-2-2  
**Depth (ft):** 4-6 bot

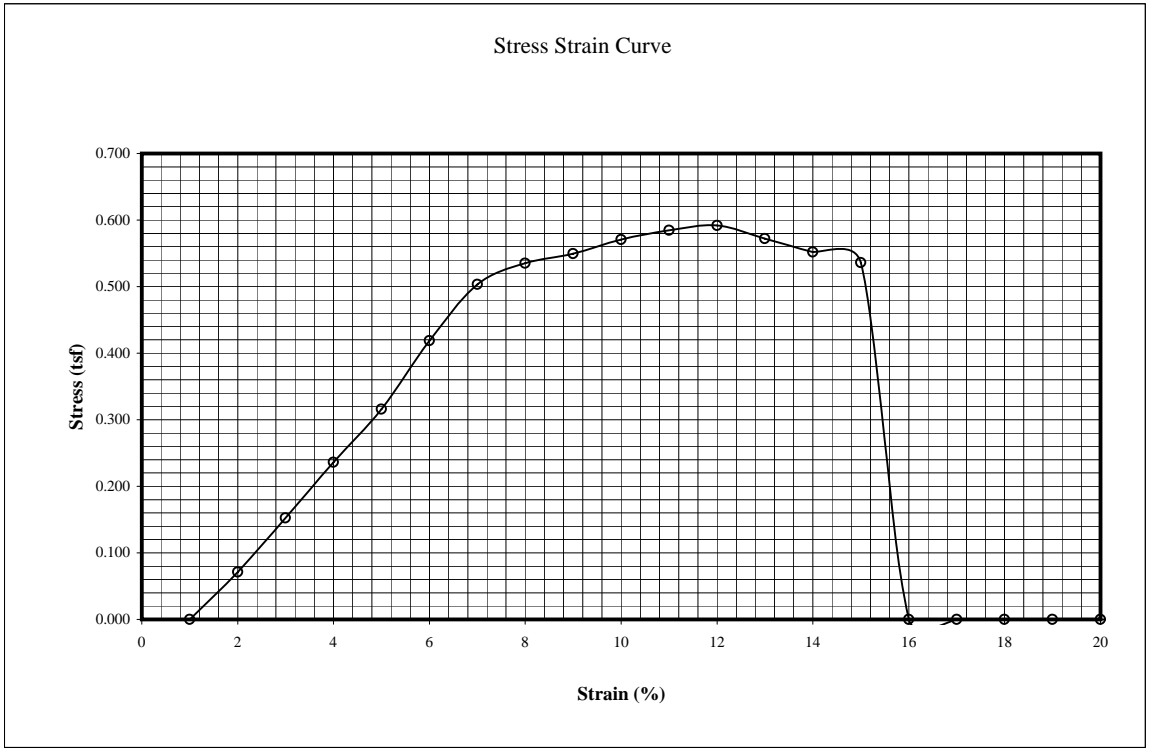
**Type of Failure:** Multi @ 6.5%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 4.0  
 Weight (gm) = 768.9

Wet wt. = 196.48  
 Dry wt. = 160.31  
 Moisture Content (%) = 27.14%  
 Can wt. = 27.02  
 Wet Density (pcf) = 112.8  
 Dry Density (pcf) = 88.7

**Test Data:**  
 Cell Pressure (psi) = 0.0  
 Height Correction = 0.957  
 Proving Ring No. = 9839  
 0.337

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	20	0.500	0.071
0.040	43	1.000	0.152
0.060	67	1.500	0.236
0.080	90	2.000	0.316
0.100	120	2.500	0.419
0.120	145	3.000	0.503
0.140	155	3.500	0.535
0.160	160	4.000	0.550
0.180	167	4.500	0.571
0.200	172	5.000	0.585
0.220	175	5.500	0.592
0.240	170	6.000	0.572
0.260	165	6.500	0.552
0.280	161	7.000	0.536
0.300			
0.320			
0.340			
0.360			
0.380			
0.400			
0.420			
0.440			
0.460			
0.480			
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



2.197729



**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

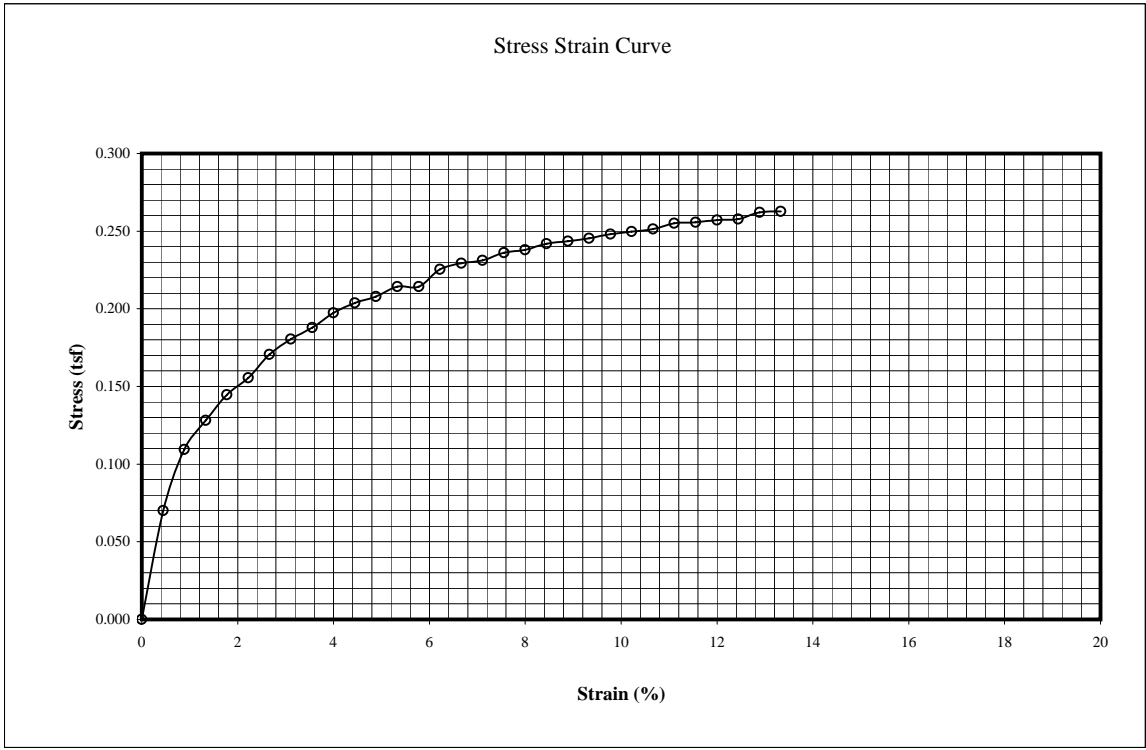
**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Soft dark gray clay with silt seams and organics  
**Boring No.:** 17-2-3  
**Depth (ft):** 8-10 top

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 4.5  
 Weight (gm) = 711.4

**Test Data:**  
 Type of Failure: Yield @ 10%  
 Wet wt. = 111.12  
 Dry wt. = 83.88  
 Moisture Content (%) = 47.75%  
 Can wt. = 26.83  
 Cell Pressure (psi) = 4.1  
 Height Correction = 0.976  
 Wet Density (pcf) = 92.8  
 Dry Density (pcf) = 62.8  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	6.5	0.444	0.070
0.040	10.2	0.889	0.109
0.060	12.0	1.333	0.128
0.080	13.6	1.778	0.145
0.100	14.7	2.222	0.156
0.120	16.2	2.667	0.171
0.140	17.2	3.111	0.180
0.160	18.0	3.556	0.188
0.180	19.0	4.000	0.197
0.200	19.7	4.444	0.204
0.220	20.2	4.889	0.208
0.240	20.9	5.333	0.214
0.260	21.0	5.778	0.214
0.280	22.2	6.222	0.225
0.300	22.7	6.667	0.229
0.320	23.0	7.111	0.231
0.340	23.6	7.556	0.236
0.360	23.9	8.000	0.238
0.380	24.4	8.444	0.242
0.400	24.7	8.889	0.244
0.420	25.0	9.333	0.245
0.440	25.4	9.778	0.248
0.460	25.7	10.222	0.250
0.480	26.0	10.667	0.251
0.500	26.5	11.111	0.255
0.520	26.7	11.556	0.256
0.540	27.0	12.000	0.257
0.560	27.2	12.444	0.258
0.580	27.8	12.889	0.262
0.600	28.0	13.333	0.263



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Soft dark gray clay with silt seams and organics  
**Boring No.:** 17-2-3  
**Depth (ft):** 8-10 bot

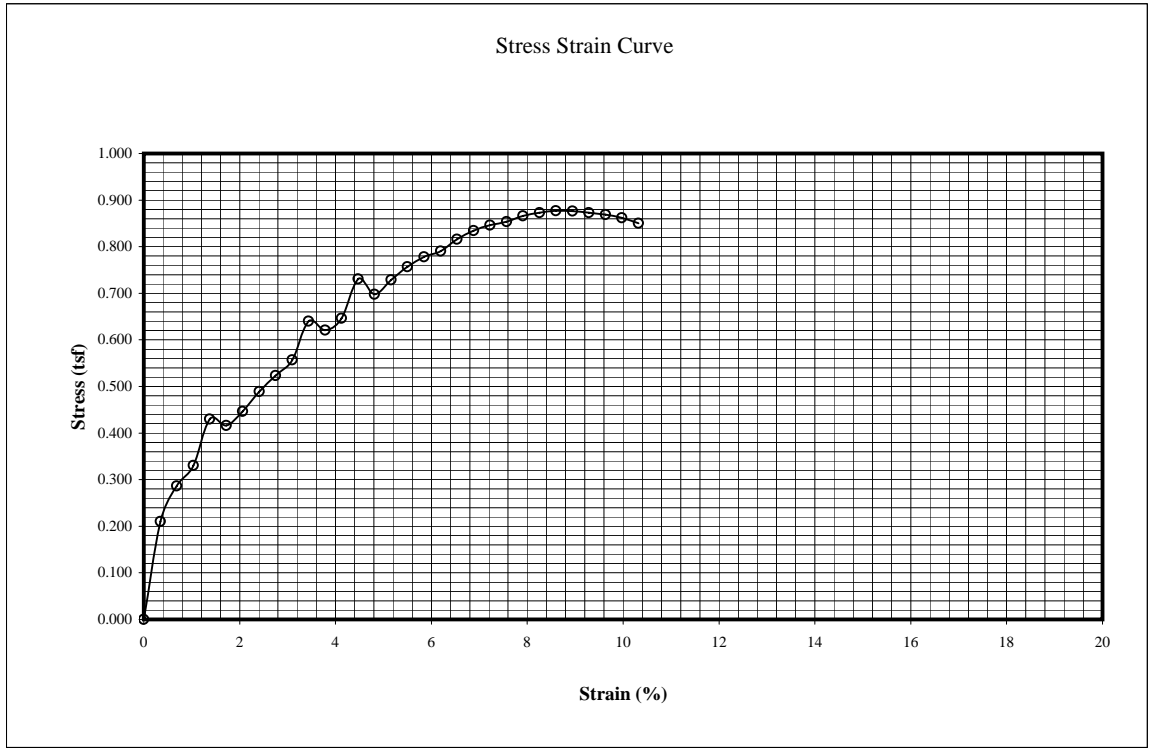
**Type of Failure:** Yeild @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1034.3

Wet wt. = 134.9  
 Dry at. = 98.05  
 Moisture Content (%) = 47.75%  
 Can wt. = 20.87  
 Wet Density (pcf) = 104.4  
 Dry Density (pcf) = 70.7

**Test Data:**  
 Cell Pressure (psi) = 4.1  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	19.0	0.344	0.210
0.040	26.0	0.688	0.286
0.060	30.1	1.032	0.330
0.080	39.3	1.376	0.430
0.100	38.2	1.720	0.416
0.120	41.1	2.064	0.446
0.140	45.2	2.408	0.489
0.160	48.5	2.752	0.523
0.180	51.8	3.096	0.557
0.200	59.8	3.440	0.640
0.220	58.2	3.784	0.621
0.240	60.8	4.128	0.646
0.260	69.0	4.472	0.731
0.280	66.1	4.816	0.698
0.300	69.3	5.160	0.729
0.320	72.2	5.504	0.757
0.340	74.5	5.848	0.778
0.360	76.0	6.192	0.791
0.380	78.7	6.536	0.816
0.400	80.8	6.880	0.834
0.420	82.2	7.224	0.846
0.440	83.3	7.568	0.854
0.460	84.8	7.912	0.866
0.480	85.8	8.256	0.873
0.500	86.5	8.600	0.877
0.520	86.8	8.944	0.877
0.540	86.8	9.288	0.873
0.560	86.7	9.632	0.869
0.580	86.3	9.976	0.862
0.600	85.5	10.320	0.850



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

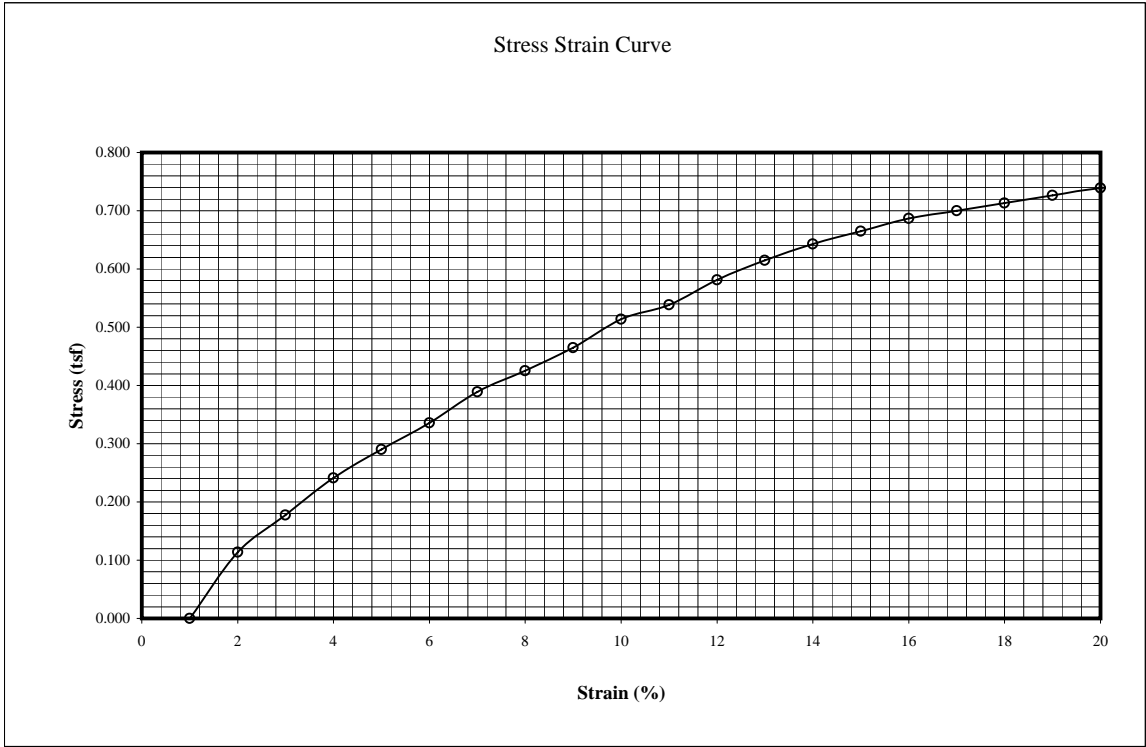
**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium dark gray organic clay w/peat  
**Boring No.:** 17-2-6  
**Depth (ft):** 17-19

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 702.4

**Test Data:**  
 Type of Failure: Yield @ 10%  
 Wet wt. = 89.54  
 Dry at. = 41.86  
 Moisture Content (%) = 227.16%  
 Can wt. = 20.87  
 Cell Pressure (psi) = 10.6  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 Dry Density (pcf) = 70.9  
 Wet Density (pcf) = 21.7

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	10.3	0.344	0.114
0.040	16.1	0.688	0.177
0.060	22.0	1.032	0.241
0.080	26.5	1.376	0.290
0.100	30.8	1.720	0.336
0.120	35.8	2.064	0.389
0.140	39.3	2.408	0.425
0.160	43.1	2.752	0.465
0.180	47.8	3.096	0.514
0.200	50.3	3.440	0.539
0.220	54.5	3.784	0.582
0.240	57.8	4.128	0.615
0.260	60.7	4.472	0.643
0.280	63.0	4.816	0.665
0.300	65.3	5.160	0.687
0.320	66.8	5.504	0.700
0.340	68.3	5.848	0.713
0.360	69.8	6.192	0.726
0.380	71.3	6.536	0.739
0.400	72.0	6.880	0.744
0.420	72.8	7.224	0.749
0.440	73.3	7.568	0.751
0.460	73.2	7.912	0.748
0.480	71.7	8.256	0.730
0.500	64.8	8.600	0.657
0.520	63.2	8.944	0.638
0.540	62.5	9.288	0.629
0.560	61.8	9.632	0.619
0.580	60.8	9.976	0.607
0.600			



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Soft gray slightly silty clay  
**Boring No.:** 17-2-7  
**Depth (ft):** 19.5-21.5

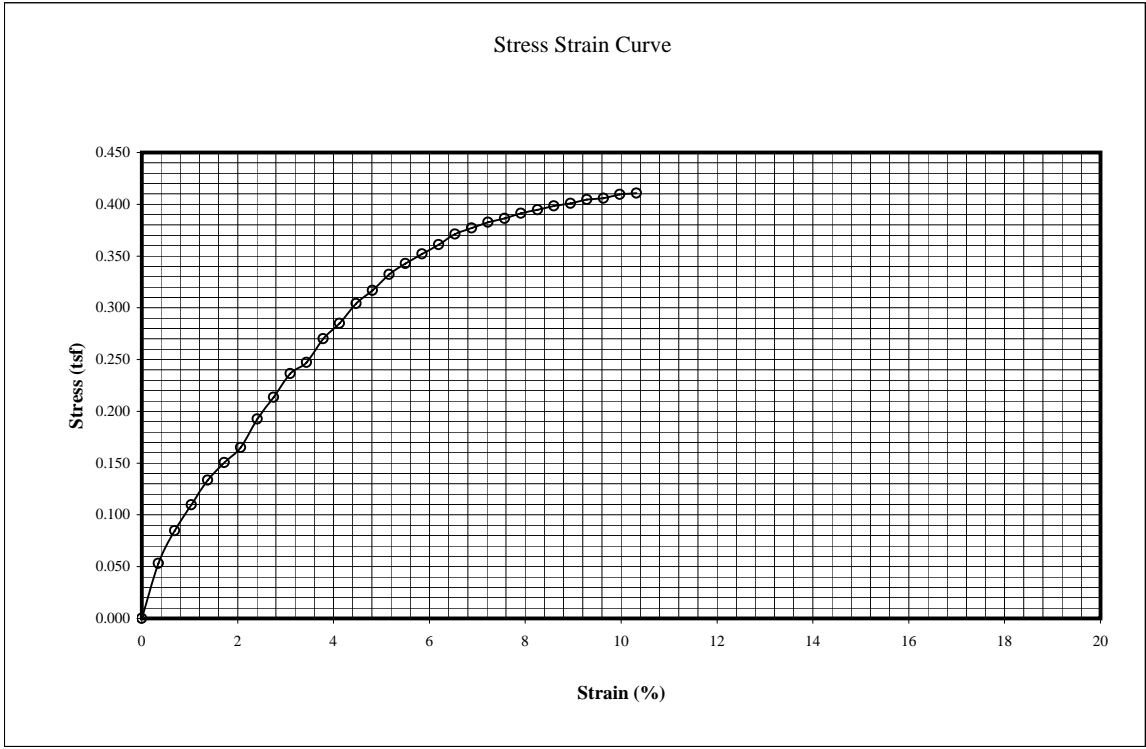
**Type of Failure:** Yield @10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1123.3

**Test Data:**  
 Wet wt. = 139.84  
 Dry at. = 108.02  
 Can wt. = 25.02  
 Cell Pressure (psi) = 11.5  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 38.34%  
 Wet Density (pcf) = 113.4  
 Dry Density (pcf) = 82.0

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	4.8	0.344	0.053
0.040	7.7	0.688	0.085
0.060	10.0	1.032	0.110
0.080	12.2	1.376	0.133
0.100	13.8	1.720	0.150
0.120	15.2	2.064	0.165
0.140	17.8	2.408	0.193
0.160	19.8	2.752	0.214
0.180	22.0	3.096	0.236
0.200	23.1	3.440	0.247
0.220	25.3	3.784	0.270
0.240	26.8	4.128	0.285
0.260	28.7	4.472	0.304
0.280	30.0	4.816	0.317
0.300	31.6	5.160	0.332
0.320	32.7	5.504	0.343
0.340	33.7	5.848	0.352
0.360	34.7	6.192	0.361
0.380	35.8	6.536	0.371
0.400	36.5	6.880	0.377
0.420	37.2	7.224	0.383
0.440	37.7	7.568	0.386
0.460	38.3	7.912	0.391
0.480	38.8	8.256	0.395
0.500	39.3	8.600	0.398
0.520	39.7	8.944	0.401
0.540	40.2	9.288	0.404
0.560	40.5	9.632	0.406
0.580	41.0	9.976	0.409
0.600	41.3	10.320	0.411



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Soft gray clay w/alt. Layers of fine sand & silt  
**Boring No.:** 17-2-8  
**Depth (ft):** 24-26

Type of Failure: Yield @10%

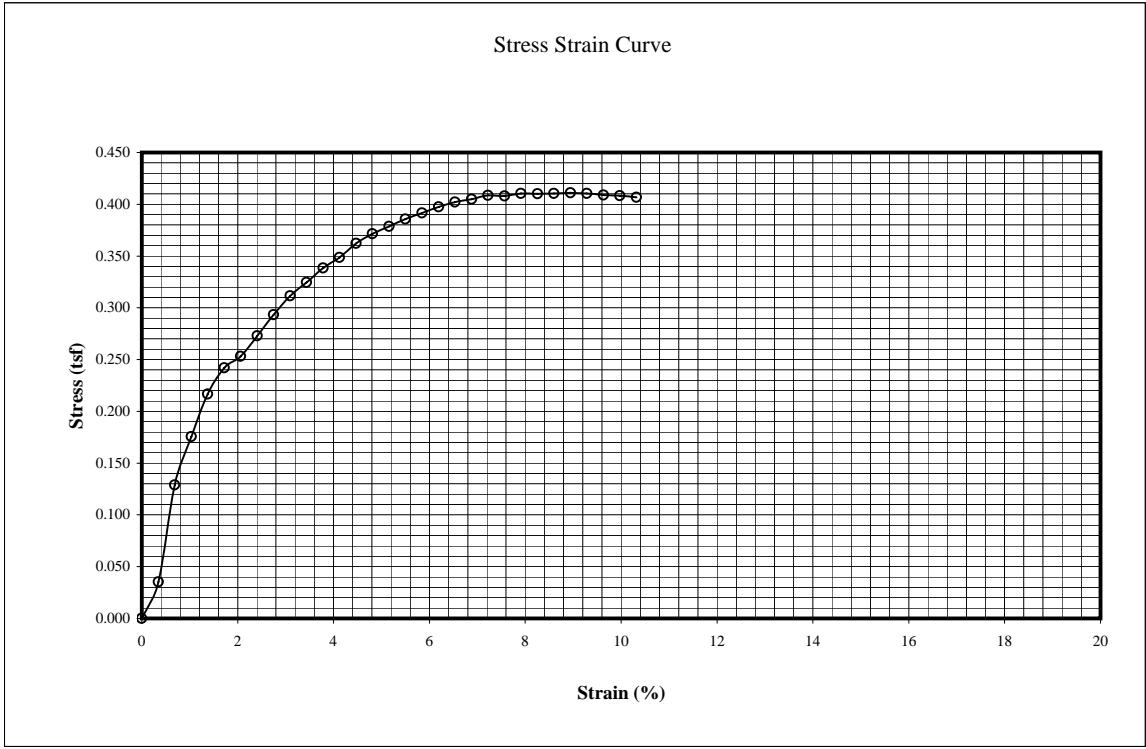
**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 980.3

Wet wt. = 183.45  
 Dry wt. = 123.96  
 Moisture Content (%) = 58.43%  
 Can wt. = 22.14

Wet Density (pcf) = 98.9  
 Dry Density (pcf) = 62.5

**Test Data:**  
 Cell Pressure (psi) = 14.0  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.2	0.344	0.035
0.040	11.7	0.688	0.129
0.060	16.0	1.032	0.176
0.080	19.8	1.376	0.217
0.100	22.2	1.720	0.242
0.120	23.3	2.064	0.253
0.140	25.2	2.408	0.273
0.160	27.2	2.752	0.293
0.180	29.0	3.096	0.312
0.200	30.3	3.440	0.324
0.220	31.7	3.784	0.338
0.240	32.8	4.128	0.349
0.260	34.2	4.472	0.362
0.280	35.2	4.816	0.372
0.300	36.0	5.160	0.379
0.320	36.8	5.504	0.386
0.340	37.5	5.848	0.392
0.360	38.2	6.192	0.397
0.380	38.8	6.536	0.402
0.400	39.2	6.880	0.405
0.420	39.7	7.224	0.409
0.440	39.8	7.568	0.408
0.460	40.2	7.912	0.411
0.480	40.3	8.256	0.410
0.500	40.5	8.600	0.411
0.520	40.7	8.944	0.411
0.540	40.8	9.288	0.410
0.560	40.8	9.632	0.409
0.580	40.9	9.976	0.408
0.600	40.9	10.320	0.407



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Soft gray clay with silt seams  
**Boring No.:** 17-2-9  
**Depth (ft):** 30-32

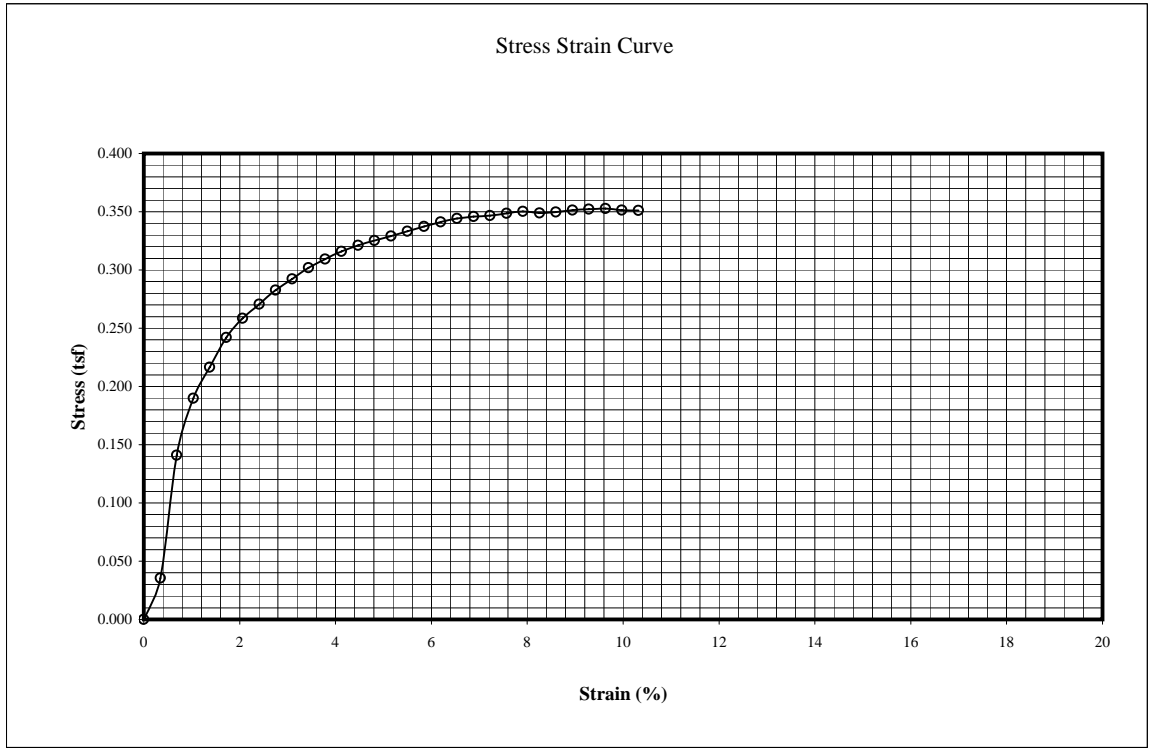
**Type of Failure:** Yield @10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 952.2

Wet wt. = 165.18  
 Dry at. = 112.45  
 Moisture Content (%) = 63.12%  
 Can wt. = 28.91  
 Wet Density (pcf) = 96.1  
 Dry Density (pcf) = 58.9

**Test Data:**  
 Cell Pressure (psi) = 18.2  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.2	0.344	0.035
0.040	12.8	0.688	0.141
0.060	17.3	1.032	0.190
0.080	19.8	1.376	0.217
0.100	22.2	1.720	0.242
0.120	23.8	2.064	0.259
0.140	25.0	2.408	0.271
0.160	26.2	2.752	0.283
0.180	27.2	3.096	0.292
0.200	28.2	3.440	0.302
0.220	29.0	3.784	0.309
0.240	29.7	4.128	0.316
0.260	30.3	4.472	0.321
0.280	30.8	4.816	0.325
0.300	31.3	5.160	0.329
0.320	31.8	5.504	0.333
0.340	32.3	5.848	0.337
0.360	32.8	6.192	0.341
0.380	33.2	6.536	0.344
0.400	33.5	6.880	0.346
0.420	33.7	7.224	0.347
0.440	34.0	7.568	0.349
0.460	34.3	7.912	0.350
0.480	34.3	8.256	0.349
0.500	34.5	8.600	0.350
0.520	34.8	8.944	0.351
0.540	35.0	9.288	0.352
0.560	35.2	9.632	0.353
0.580	35.2	9.976	0.351
0.600	35.3	10.320	0.351



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft dark gray to brown peat  
**Boring No.:** 17-6A-1  
**Depth (ft):** 5-6

Type of Failure: Yield @10%

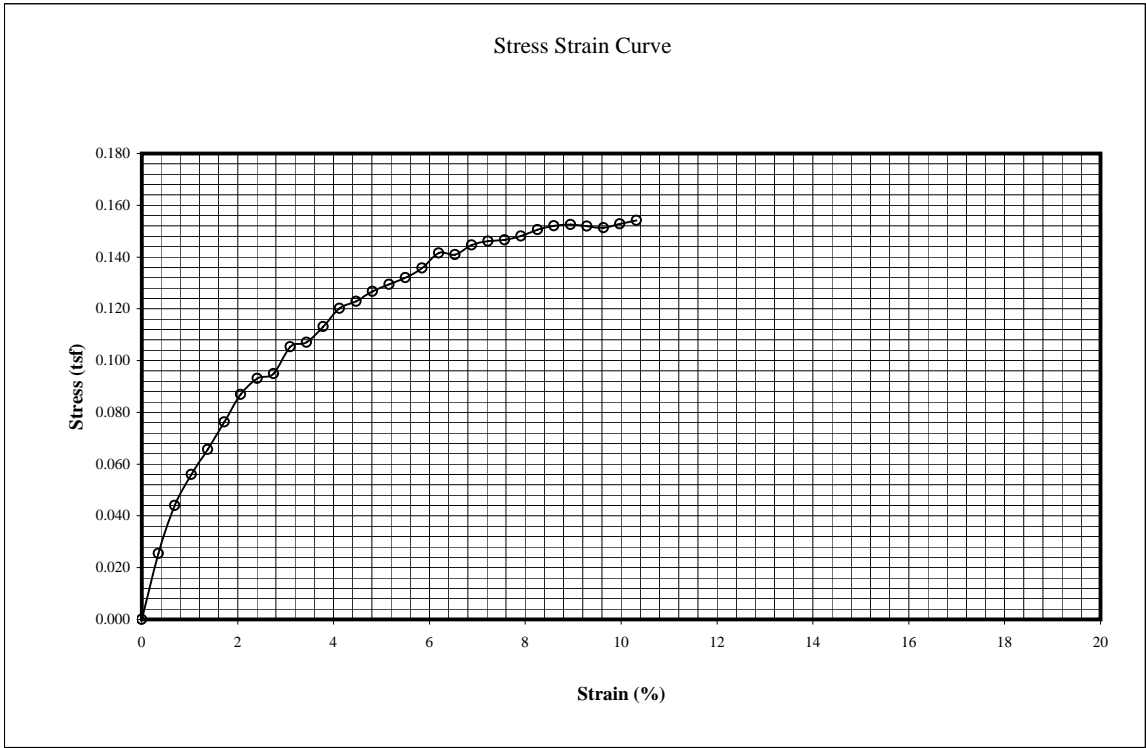
**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 662.9

Wet wt. = 141.12  
 Dry wt. = 65.16  
 Can wt. = 27.05

Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 199.32%  
 Wet Density (pcf) = 66.9  
 Dry Density (pcf) = 22.4

**Test Data:**  
 Cell Pressure (psi) = 3.0  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	2.3	0.344	0.025
0.040	4.0	0.688	0.044
0.060	5.1	1.032	0.056
0.080	6.0	1.376	0.066
0.100	7.0	1.720	0.076
0.120	8.0	2.064	0.087
0.140	8.6	2.408	0.093
0.160	8.8	2.752	0.095
0.180	9.8	3.096	0.105
0.200	10.0	3.440	0.107
0.220	10.6	3.784	0.113
0.240	11.3	4.128	0.120
0.260	11.6	4.472	0.123
0.280	12.0	4.816	0.127
0.300	12.3	5.160	0.129
0.320	12.6	5.504	0.132
0.340	13.0	5.848	0.136
0.360	13.6	6.192	0.141
0.380	13.6	6.536	0.141
0.400	14.0	6.880	0.145
0.420	14.2	7.224	0.146
0.440	14.3	7.568	0.147
0.460	14.5	7.912	0.148
0.480	14.8	8.256	0.151
0.500	15.0	8.600	0.152
0.520	15.1	8.944	0.152
0.540	15.1	9.288	0.152
0.560	15.1	9.632	0.151
0.580	15.3	9.976	0.153
0.600	15.5	10.320	0.154



6.521451

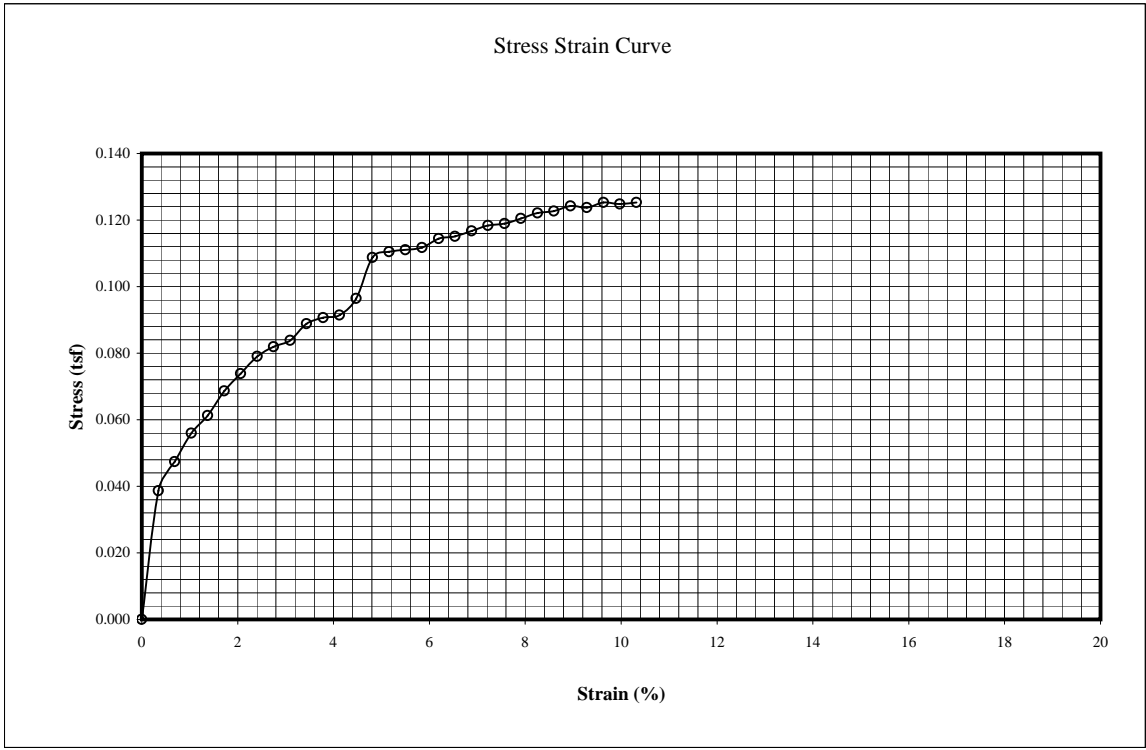
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray clay  
**Boring No.:** 17-6A-1  
**Depth (ft):** 6-7  
 Type of Failure: Yield @10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 5.8  
 Weight (gm) = 920.5  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 99.88%  
 Wet Density (pcf) = 92.9  
 Dry Density (pcf) = 46.5  
**Test Data:**  
 Wet wt. = 193.2  
 Dry wt. = 110.91  
 Can wt. = 28.52  
 Cell Pressure (psi) = 3.8  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.5	0.344	0.039
0.040	4.3	0.688	0.047
0.060	5.1	1.032	0.056
0.080	5.6	1.376	0.061
0.100	6.3	1.720	0.069
0.120	6.8	2.064	0.074
0.140	7.3	2.408	0.079
0.160	7.6	2.752	0.082
0.180	7.8	3.096	0.084
0.200	8.3	3.440	0.089
0.220	8.5	3.784	0.091
0.240	8.6	4.128	0.091
0.260	9.1	4.472	0.096
0.280	10.3	4.816	0.109
0.300	10.5	5.160	0.110
0.320	10.6	5.504	0.111
0.340	10.7	5.848	0.112
0.360	11.0	6.192	0.114
0.380	11.1	6.536	0.115
0.400	11.3	6.880	0.117
0.420	11.5	7.224	0.118
0.440	11.6	7.568	0.119
0.460	11.8	7.912	0.121
0.480	12.0	8.256	0.122
0.500	12.1	8.600	0.123
0.520	12.3	8.944	0.124
0.540	12.3	9.288	0.124
0.560	12.5	9.632	0.125
0.580	12.5	9.976	0.125
0.600	12.6	10.320	0.125



6.521451



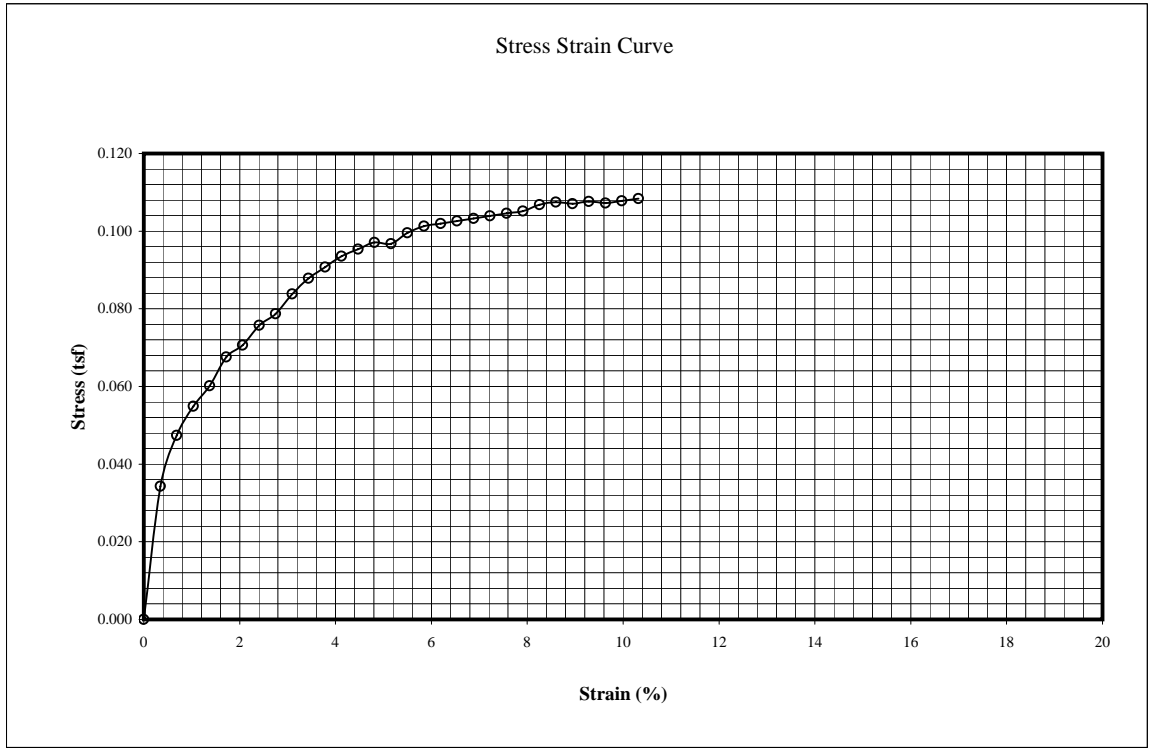
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray clay  
**Boring No.:** 17-1-1  
**Depth (ft):** 14.5-15  
 Type of Failure: Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 880.0  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 66.96%  
 Wet Density (pcf) = 88.8  
 Dry Density (pcf) = 53.2  
**Wet wt.** 212.49  
**Dry wt.** 136.12  
**Can wt.** 22.07  
**Test Data:**  
 Cell Pressure (psi) = 8.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.1	0.344	0.034
0.040	4.3	0.688	0.047
0.060	5.0	1.032	0.055
0.080	5.5	1.376	0.060
0.100	6.2	1.720	0.068
0.120	6.5	2.064	0.071
0.140	7.0	2.408	0.076
0.160	7.3	2.752	0.079
0.180	7.8	3.096	0.084
0.200	8.2	3.440	0.088
0.220	8.5	3.784	0.091
0.240	8.8	4.128	0.094
0.260	9.0	4.472	0.095
0.280	9.2	4.816	0.097
0.300	9.2	5.160	0.097
0.320	9.5	5.504	0.100
0.340	9.7	5.848	0.101
0.360	9.8	6.192	0.102
0.380	9.9	6.536	0.103
0.400	10.0	6.880	0.103
0.420	10.1	7.224	0.104
0.440	10.2	7.568	0.105
0.460	10.3	7.912	0.105
0.480	10.5	8.256	0.107
0.500	10.6	8.600	0.107
0.520	10.6	8.944	0.107
0.540	10.7	9.288	0.108
0.560	10.7	9.632	0.107
0.580	10.8	9.976	0.108
0.600	10.9	10.320	0.108



6.521451

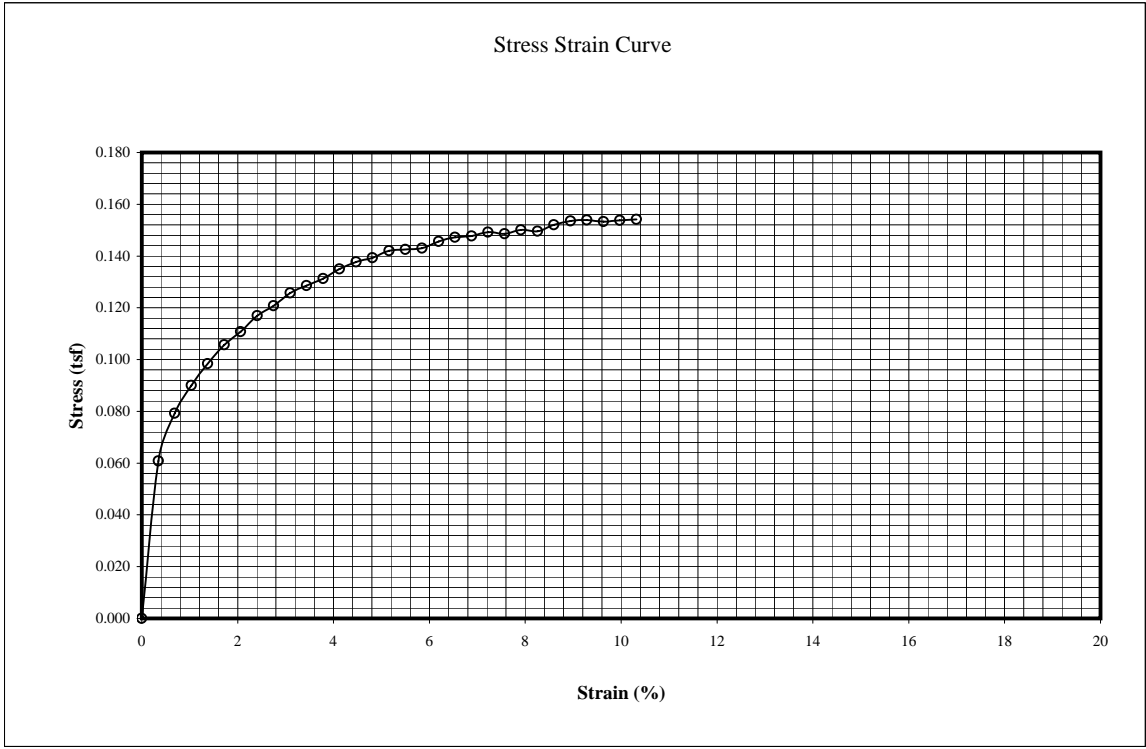
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray clay with peat  
**Boring No.:** 17-1-1  
**Depth (ft):** 15.5-16  
**Type of Failure:** Yield @10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 899.1  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 67.91%  
 Wet Density (pcf) = 90.8  
 Dry Density (pcf) = 54.0  
**Wet wt.** 240.13  
**Dry wt.** 154.52  
**Can wt.** 28.46  
**Test Data:**  
 Cell Pressure (psi) = 8.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	5.5	0.344	0.061
0.040	7.2	0.688	0.079
0.060	8.2	1.032	0.090
0.080	9.0	1.376	0.098
0.100	9.7	1.720	0.106
0.120	10.2	2.064	0.111
0.140	10.8	2.408	0.117
0.160	11.2	2.752	0.121
0.180	11.7	3.096	0.126
0.200	12.0	3.440	0.129
0.220	12.3	3.784	0.131
0.240	12.7	4.128	0.135
0.260	13.0	4.472	0.138
0.280	13.2	4.816	0.139
0.300	13.5	5.160	0.142
0.320	13.6	5.504	0.143
0.340	13.7	5.848	0.143
0.360	14.0	6.192	0.146
0.380	14.2	6.536	0.147
0.400	14.3	6.880	0.148
0.420	14.5	7.224	0.149
0.440	14.5	7.568	0.149
0.460	14.7	7.912	0.150
0.480	14.7	8.256	0.150
0.500	15.0	8.600	0.152
0.520	15.2	8.944	0.154
0.540	15.3	9.288	0.154
0.560	15.3	9.632	0.153
0.580	15.4	9.976	0.154
0.600	15.5	10.320	0.154



6.521451

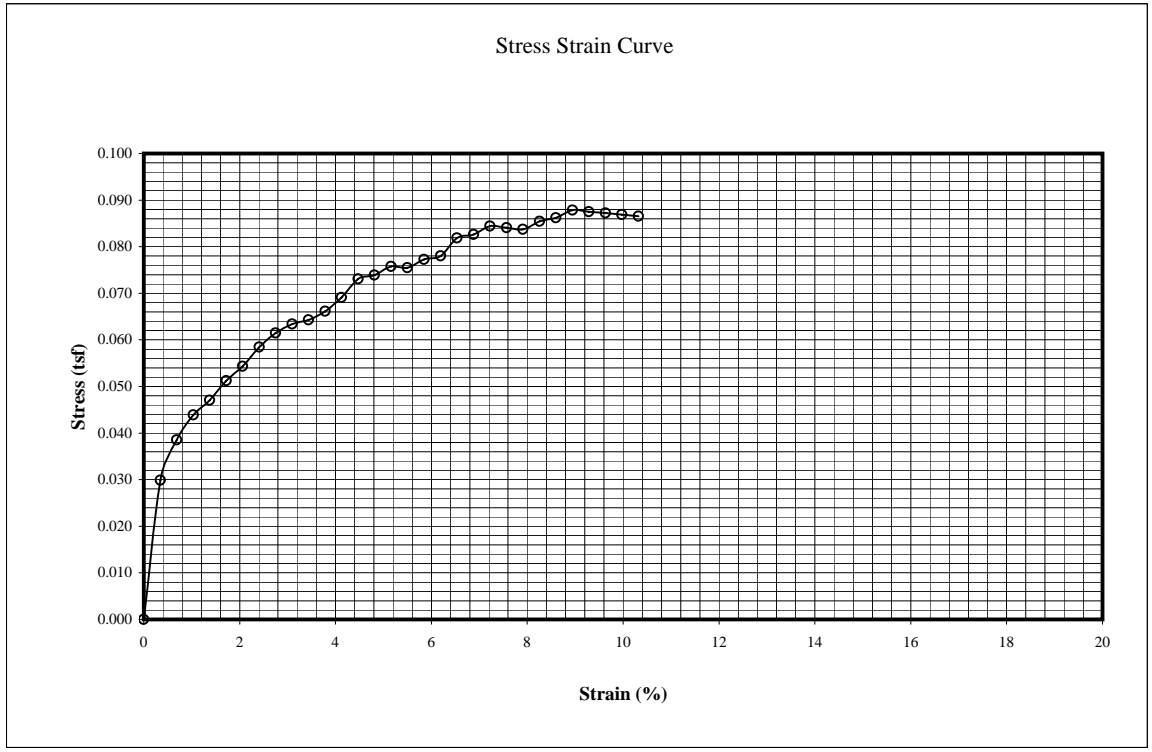
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray clay with organics  
**Boring No.:** 17-1-2  
**Depth (ft):** 17-19  
 Type of Failure: Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 940.3  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 73.71%  
 Wet Density (pcf) = 94.9  
 Dry Density (pcf) = 54.6  
**Wet wt.** 116.16  
**Dry wt.** 77.49  
**Can wt.** 25.03  
**Test Data:**  
 Cell Pressure (psi) = 10.6  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	2.7	0.344	0.030
0.040	3.5	0.688	0.039
0.060	4.0	1.032	0.044
0.080	4.3	1.376	0.047
0.100	4.7	1.720	0.051
0.120	5.0	2.064	0.054
0.140	5.4	2.408	0.058
0.160	5.7	2.752	0.061
0.180	5.9	3.096	0.063
0.200	6.0	3.440	0.064
0.220	6.2	3.784	0.066
0.240	6.5	4.128	0.069
0.260	6.9	4.472	0.073
0.280	7.0	4.816	0.074
0.300	7.2	5.160	0.076
0.320	7.2	5.504	0.075
0.340	7.4	5.848	0.077
0.360	7.5	6.192	0.078
0.380	7.9	6.536	0.082
0.400	8.0	6.880	0.083
0.420	8.2	7.224	0.084
0.440	8.2	7.568	0.084
0.460	8.2	7.912	0.084
0.480	8.4	8.256	0.085
0.500	8.5	8.600	0.086
0.520	8.7	8.944	0.088
0.540	8.7	9.288	0.088
0.560	8.7	9.632	0.087
0.580	8.7	9.976	0.087
0.600	8.7	10.320	0.087



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Very soft gray clay  
**Boring No.:** 17-1-3  
**Depth (ft):** 22.5-24.5

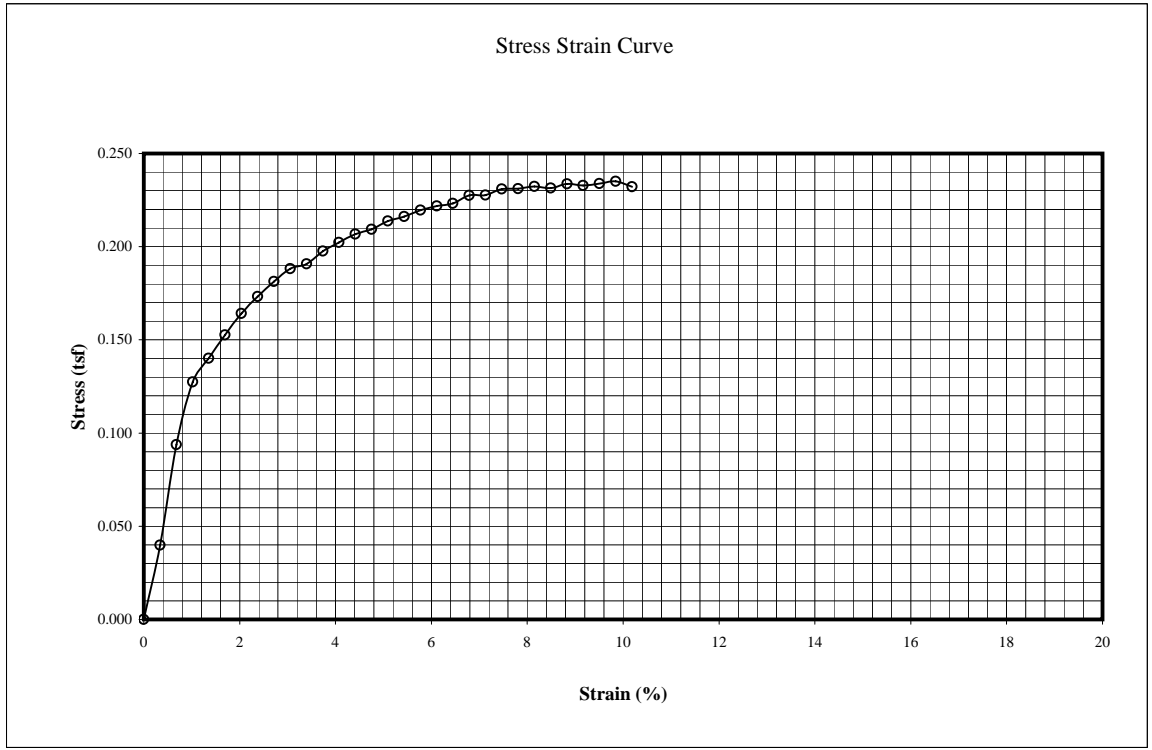
**Type of Failure:** Yield @10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.9  
 Weight (gm) = 906.2

Wet wt. = 104.96  
 Dry at. = 66.58  
 Moisture Content (%) = 92.37%  
 Can wt. = 25.03  
 Wet Density (pcf) = 90.3  
 Dry Density (pcf) = 46.9

**Test Data:**  
 Cell Pressure (psi) = 13.6  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.6	0.340	0.040
0.040	8.5	0.679	0.094
0.060	11.6	1.019	0.127
0.080	12.8	1.358	0.140
0.100	14.0	1.698	0.153
0.120	15.1	2.037	0.164
0.140	16.0	2.377	0.173
0.160	16.8	2.716	0.181
0.180	17.5	3.056	0.188
0.200	17.8	3.396	0.191
0.220	18.5	3.735	0.198
0.240	19.0	4.075	0.202
0.260	19.5	4.414	0.207
0.280	19.8	4.754	0.209
0.300	20.3	5.093	0.214
0.320	20.6	5.433	0.216
0.340	21.0	5.772	0.220
0.360	21.3	6.112	0.222
0.380	21.5	6.452	0.223
0.400	22.0	6.791	0.228
0.420	22.1	7.131	0.228
0.440	22.5	7.470	0.231
0.460	22.6	7.810	0.231
0.480	22.8	8.149	0.232
0.500	22.8	8.489	0.231
0.520	23.1	8.829	0.234
0.540	23.1	9.168	0.233
0.560	23.3	9.508	0.234
0.580	23.5	9.847	0.235
0.600	23.3	10.187	0.232



6.521451

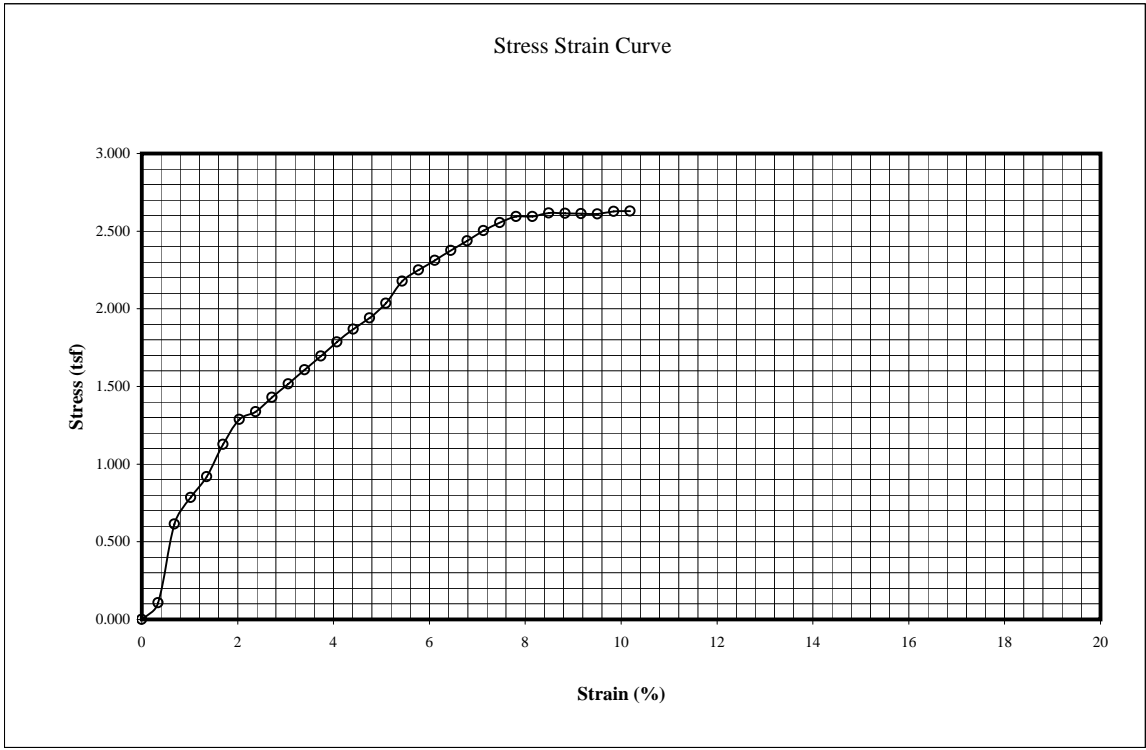
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Firm gray fine sand with clay streaks      **Type of Failure:** Yield @ 10%  
**Boring No.:** 17-1-4  
**Depth (ft):** 26.5-28.5

**Sample Data:**  
 Diameter (in.) = 2.875      Wet wt. = 200.08  
 Height (in) = 5.9      Area (in<sup>2</sup>) = 6.492      Dry wt. = 160.4  
 Weight (gm) = 1132.5      Moisture Content (%) = 30.20%      Can wt. = 28.99  
 Wet Density (pcf) = 112.8      **Test Data:**  
 Dry Density (pcf) = 86.7      Cell Pressure (psi) = 15.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	9.6	0.340	0.106
0.040	55.7	0.679	0.614
0.060	71.5	1.019	0.785
0.080	84.0	1.358	0.919
0.100	103.4	1.698	1.128
0.120	118.4	2.037	1.287
0.140	123.5	2.377	1.338
0.160	132.4	2.716	1.429
0.180	141.0	3.056	1.517
0.200	149.9	3.396	1.607
0.220	158.7	3.735	1.695
0.240	167.9	4.075	1.787
0.260	176.2	4.414	1.869
0.280	183.7	4.754	1.941
0.300	193.4	5.093	2.036
0.320	207.5	5.433	2.177
0.340	215.2	5.772	2.250
0.360	221.9	6.112	2.312
0.380	228.9	6.452	2.376
0.400	235.7	6.791	2.438
0.420	242.9	7.131	2.503
0.440	248.9	7.470	2.555
0.460	253.7	7.810	2.595
0.480	254.5	8.149	2.594
0.500	257.8	8.489	2.617
0.520	258.4	8.829	2.614
0.540	259.3	9.168	2.613
0.560	260.1	9.508	2.611
0.580	262.6	9.847	2.627
0.600	263.9	10.187	2.630



6.521451

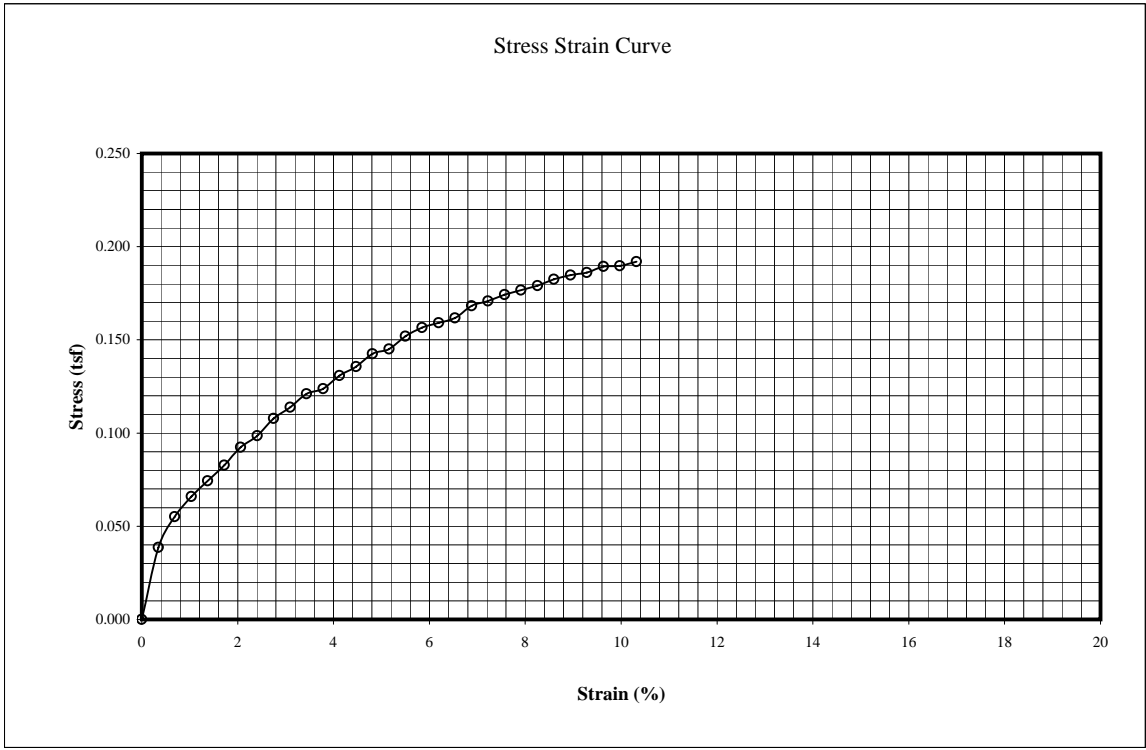
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray silty clay w/wood & shell fragments  
**Boring No.:** 17-3-3  
**Depth (ft):** 9-10  
 Type of Failure: Yield @10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1111.1  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 38.06%  
 Wet Density (pcf) = 112.1  
 Dry Density (pcf) = 81.2  
**Test Data:**  
 Wet wt. = 178.58  
 Dry wt. = 134.4  
 Can wt. = 18.32  
 Cell Pressure (psi) = 5.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.5	0.344	0.039
0.040	5.0	0.688	0.055
0.060	6.0	1.032	0.066
0.080	6.8	1.376	0.074
0.100	7.6	1.720	0.083
0.120	8.5	2.064	0.092
0.140	9.1	2.408	0.098
0.160	10.0	2.752	0.108
0.180	10.6	3.096	0.114
0.200	11.3	3.440	0.121
0.220	11.6	3.784	0.124
0.240	12.3	4.128	0.131
0.260	12.8	4.472	0.136
0.280	13.5	4.816	0.143
0.300	13.8	5.160	0.145
0.320	14.5	5.504	0.152
0.340	15.0	5.848	0.157
0.360	15.3	6.192	0.159
0.380	15.6	6.536	0.162
0.400	16.3	6.880	0.168
0.420	16.6	7.224	0.171
0.440	17.0	7.568	0.174
0.460	17.3	7.912	0.177
0.480	17.6	8.256	0.179
0.500	18.0	8.600	0.182
0.520	18.3	8.944	0.185
0.540	18.5	9.288	0.186
0.560	18.9	9.632	0.189
0.580	19.0	9.976	0.190
0.600	19.3	10.320	0.192



6.521451

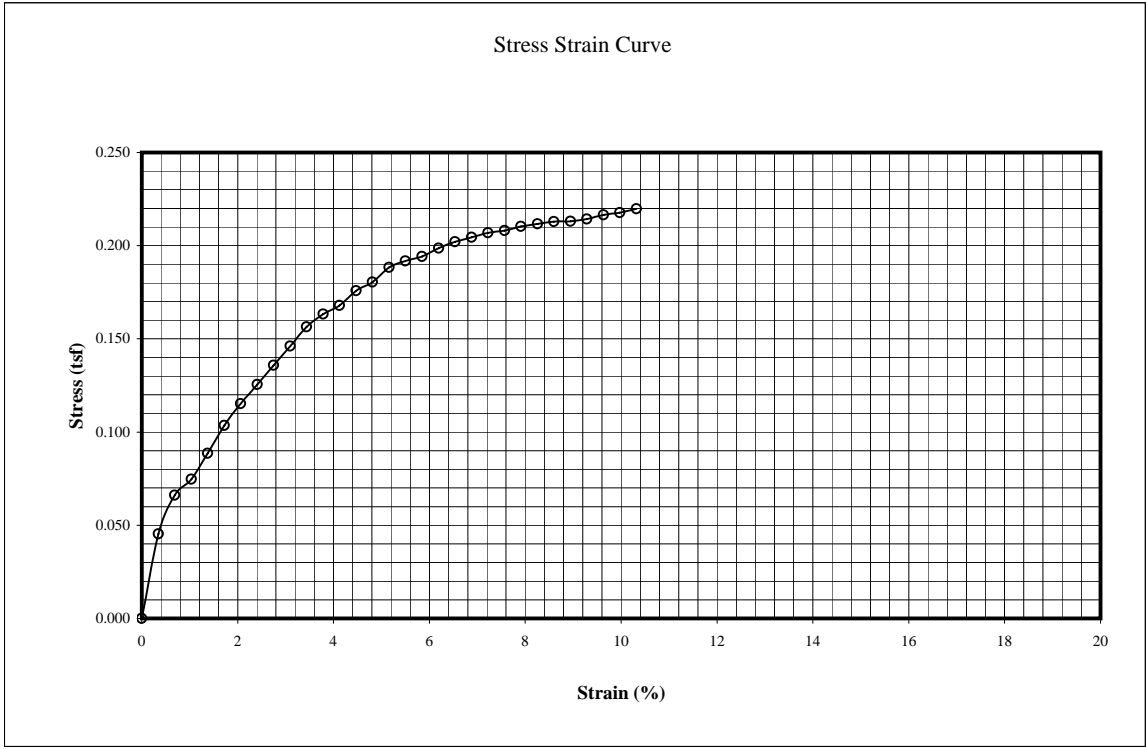
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft dark gray silty clay w/wood & shell fragments  
**Boring No.:** 17-3-3  
**Depth (ft):** 10-11  
 Type of Failure: Yield @10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1083.5  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 41.80%  
 Wet Density (pcf) = 109.4  
 Dry Density (pcf) = 77.1  
**Wet wt.** 191.49  
**Dry wt.** 141.25  
**Can wt.** 21.06  
**Test Data:**  
 Cell Pressure (psi) = 5.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	4.1	0.344	0.045
0.040	6.0	0.688	0.066
0.060	6.8	1.032	0.075
0.080	8.1	1.376	0.089
0.100	9.5	1.720	0.104
0.120	10.6	2.064	0.115
0.140	11.6	2.408	0.126
0.160	12.6	2.752	0.136
0.180	13.6	3.096	0.146
0.200	14.6	3.440	0.156
0.220	15.3	3.784	0.163
0.240	15.8	4.128	0.168
0.260	16.6	4.472	0.176
0.280	17.1	4.816	0.181
0.300	17.9	5.160	0.188
0.320	18.3	5.504	0.192
0.340	18.6	5.848	0.194
0.360	19.1	6.192	0.199
0.380	19.5	6.536	0.202
0.400	19.8	6.880	0.204
0.420	20.1	7.224	0.207
0.440	20.3	7.568	0.208
0.460	20.6	7.912	0.210
0.480	20.8	8.256	0.212
0.500	21.0	8.600	0.213
0.520	21.1	8.944	0.213
0.540	21.3	9.288	0.214
0.560	21.6	9.632	0.216
0.580	21.8	9.976	0.218
0.600	22.1	10.320	0.220



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Very soft gray clay with silty clay layers  
**Boring No.:** 17-3-4  
**Depth (ft):** 14-16

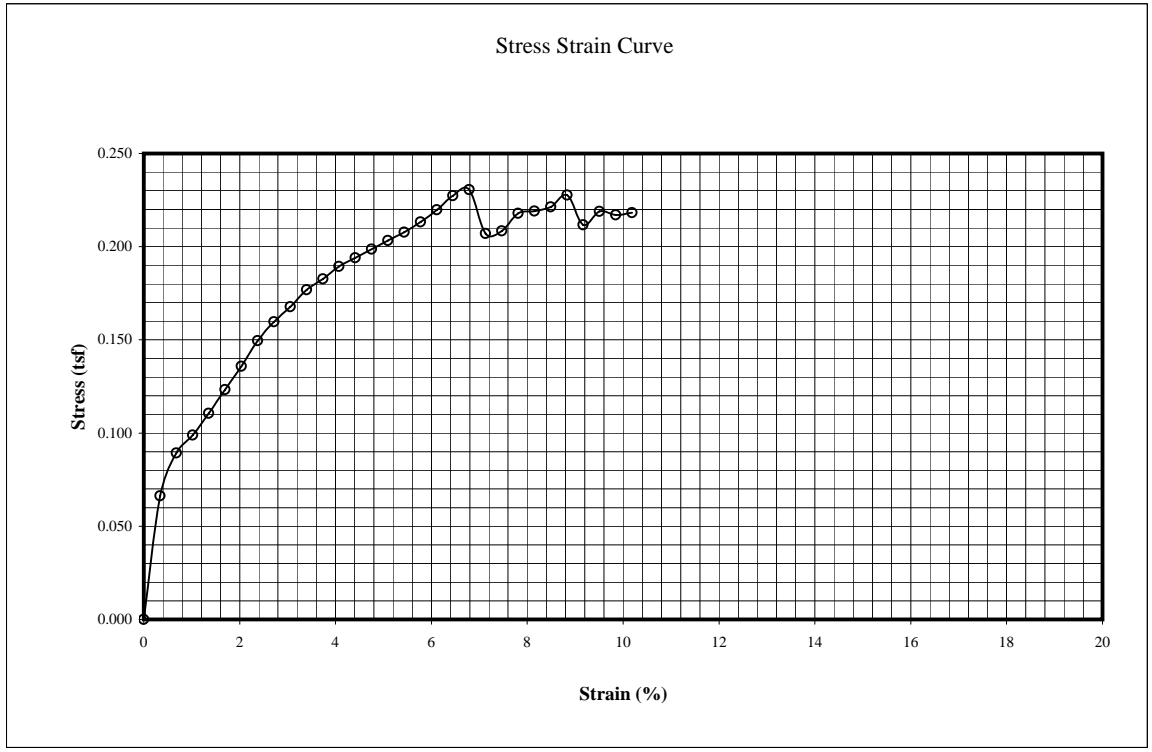
**Type of Failure:**

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.9  
 Weight (gm) = 1036.3

Wet wt. = 112.6  
 Dry wt. = 81.68  
 Moisture Content (%) = 50.88%  
 Can wt. = 20.91  
 Wet Density (pcf) = 103.2  
 Dry Density (pcf) = 68.4

**Test Data:**  
 Cell Pressure (psi) = 8.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	6.0	0.340	0.066
0.040	8.1	0.679	0.089
0.060	9.0	1.019	0.099
0.080	10.1	1.358	0.111
0.100	11.3	1.698	0.123
0.120	12.5	2.037	0.136
0.140	13.8	2.377	0.149
0.160	14.8	2.716	0.160
0.180	15.6	3.056	0.168
0.200	16.5	3.396	0.177
0.220	17.1	3.735	0.183
0.240	17.8	4.075	0.189
0.260	18.3	4.414	0.194
0.280	18.8	4.754	0.199
0.300	19.3	5.093	0.203
0.320	19.8	5.433	0.208
0.340	20.4	5.772	0.213
0.360	21.1	6.112	0.220
0.380	21.9	6.452	0.227
0.400	22.3	6.791	0.231
0.420	20.1	7.131	0.207
0.440	20.3	7.470	0.208
0.460	21.3	7.810	0.218
0.480	21.5	8.149	0.219
0.500	21.8	8.489	0.221
0.520	22.5	8.829	0.228
0.540	21.0	9.168	0.212
0.560	21.8	9.508	0.219
0.580	21.7	9.847	0.217
0.600	21.9	10.187	0.218



6.521451



**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Very soft gray clay  
**Boring No.:** 17-3-5  
**Depth (ft):** 20-22

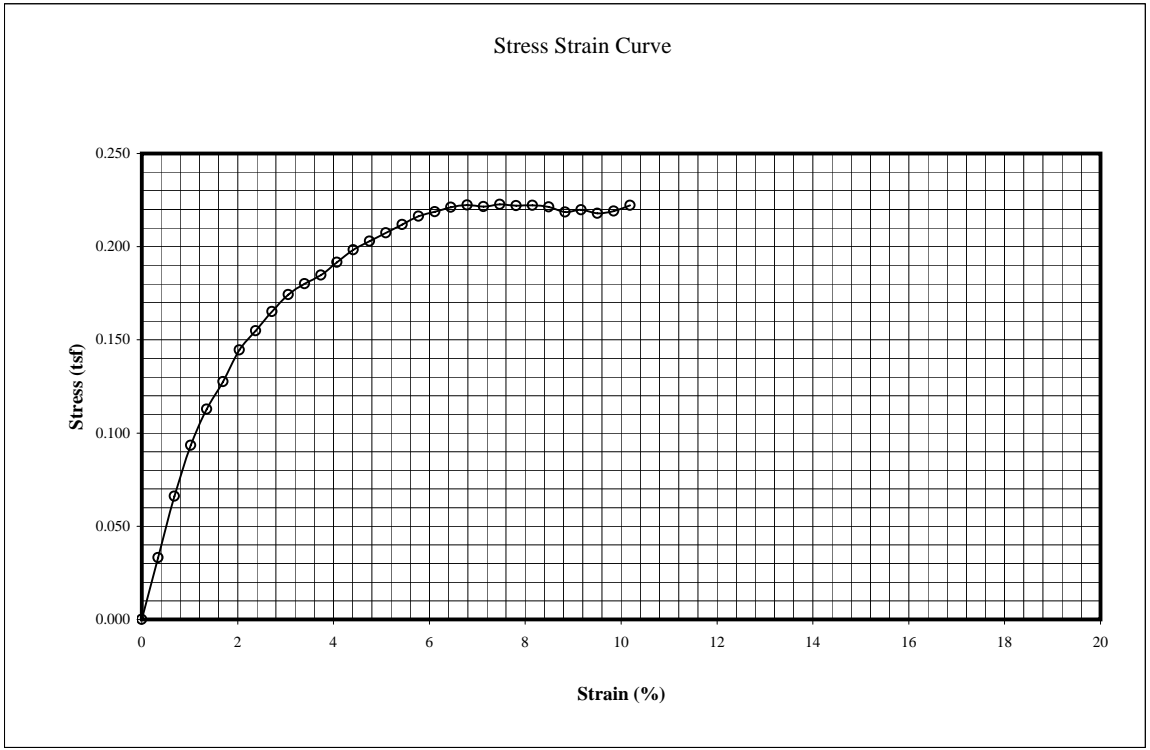
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.9  
 Weight (gm) = 960.6

Wet wt. = 146.08  
 Dry at. = 96.04  
 Moisture Content (%) = 67.79%  
 Can wt. = 22.22  
 Wet Density (pcf) = 95.7  
 Dry Density (pcf) = 57.0

**Test Data:**  
 Cell Pressure (psi) = 12.4  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.0	0.340	0.033
0.040	6.0	0.679	0.066
0.060	8.5	1.019	0.093
0.080	10.3	1.358	0.113
0.100	11.7	1.698	0.128
0.120	13.3	2.037	0.145
0.140	14.3	2.377	0.155
0.160	15.3	2.716	0.165
0.180	16.2	3.056	0.174
0.200	16.8	3.396	0.180
0.220	17.3	3.735	0.185
0.240	18.0	4.075	0.192
0.260	18.7	4.414	0.198
0.280	19.2	4.754	0.203
0.300	19.7	5.093	0.207
0.320	20.2	5.433	0.212
0.340	20.7	5.772	0.216
0.360	21.0	6.112	0.219
0.380	21.3	6.452	0.221
0.400	21.5	6.791	0.222
0.420	21.5	7.131	0.222
0.440	21.7	7.470	0.223
0.460	21.7	7.810	0.222
0.480	21.8	8.149	0.222
0.500	21.8	8.489	0.221
0.520	21.6	8.829	0.218
0.540	21.8	9.168	0.220
0.560	21.7	9.508	0.218
0.580	21.9	9.847	0.219
0.600	22.3	10.187	0.222



6.521451

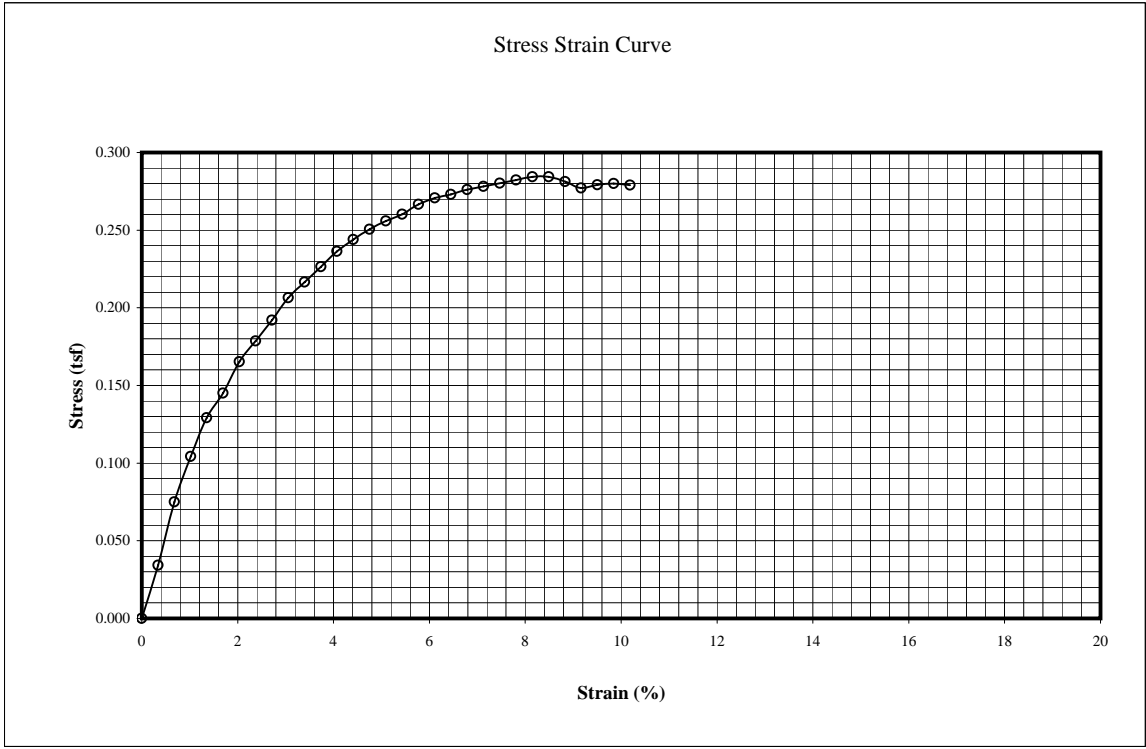
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray very sandy clay with shell  
**Boring No.:** 17-3-6  
**Depth (ft):** 26-28  
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.9  
 Weight (gm) = 1060.3  
 Wet wt. = 153.77  
 Dry wt. = 126.81  
 Moisture Content (%) = 26.88%  
 Can wt. = 26.52  
 Wet Density (pcf) = 105.6  
 Dry Density (pcf) = 83.3  
**Test Data:**  
 Cell Pressure (psi) = 15.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.1	0.340	0.034
0.040	6.8	0.679	0.075
0.060	9.5	1.019	0.104
0.080	11.8	1.358	0.129
0.100	13.3	1.698	0.145
0.120	15.2	2.037	0.165
0.140	16.5	2.377	0.179
0.160	17.8	2.716	0.192
0.180	19.2	3.056	0.207
0.200	20.2	3.396	0.217
0.220	21.2	3.735	0.226
0.240	22.2	4.075	0.236
0.260	23.0	4.414	0.244
0.280	23.7	4.754	0.250
0.300	24.3	5.093	0.256
0.320	24.8	5.433	0.260
0.340	25.5	5.772	0.267
0.360	26.0	6.112	0.271
0.380	26.3	6.452	0.273
0.400	26.7	6.791	0.276
0.420	27.0	7.131	0.278
0.440	27.3	7.470	0.280
0.460	27.6	7.810	0.282
0.480	27.9	8.149	0.284
0.500	28.0	8.489	0.284
0.520	27.8	8.829	0.281
0.540	27.5	9.168	0.277
0.560	27.8	9.508	0.279
0.580	28.0	9.847	0.280
0.600	28.0	10.187	0.279



6.521451

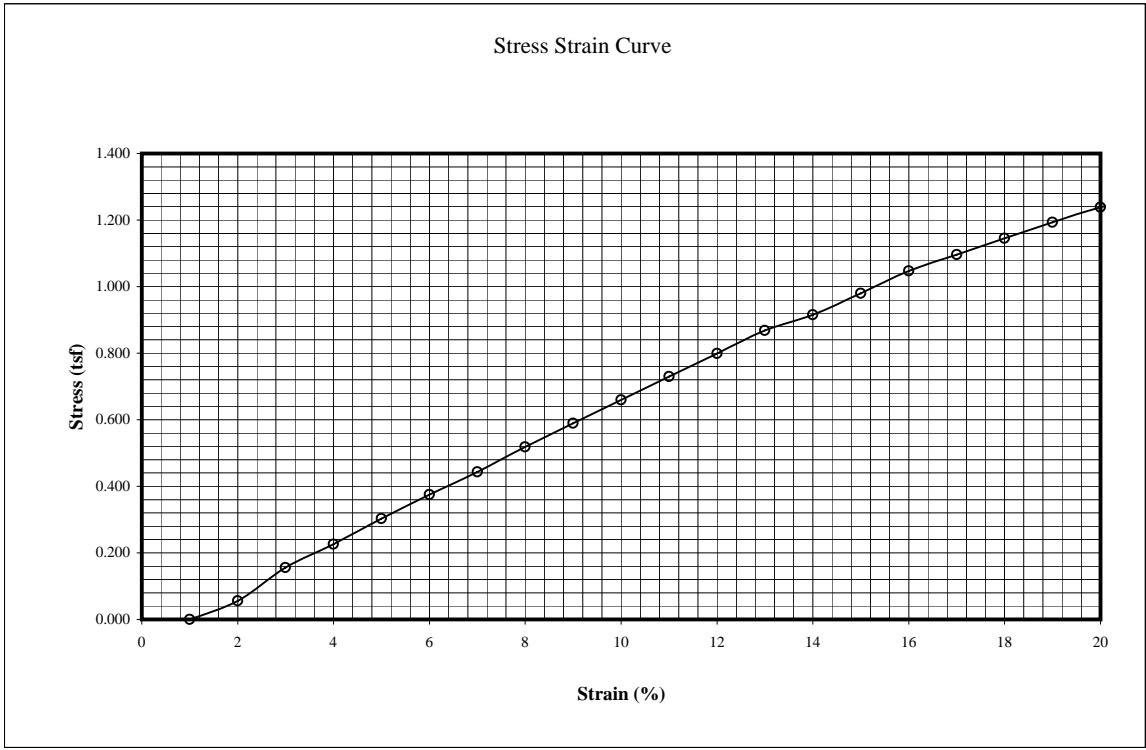
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Stiff tan and brown clay with silt  
**Boring No.:** 17-4-1  
**Depth (ft):** 3-5  
**Type of Failure:** Vertical @ 7.1%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.9  
 Weight (gm) = 1253.1  
 Wet wt. = 194.78  
 Dry at. = 164.15  
 Can wt. = 26.47  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 22.25%  
 Wet Density (pcf) = 124.8  
 Dry Density (pcf) = 102.1  
**Test Data:**  
 Cell Pressure (psi) =  
 Height Correction = 1.000  
 Proving Ring No. = 9839  
 0.337

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	15	0.340	0.056
0.040	42	0.679	0.156
0.060	61	1.019	0.226
0.080	82	1.358	0.302
0.100	102	1.698	0.375
0.120	121	2.037	0.443
0.140	142	2.377	0.518
0.160	162	2.716	0.589
0.180	182	3.056	0.660
0.200	202	3.396	0.730
0.220	222	3.735	0.799
0.240	242	4.075	0.868
0.260	256	4.414	0.915
0.280	275	4.754	0.979
0.300	295	5.093	1.047
0.320	310	5.433	1.096
0.340	325	5.772	1.145
0.360	340	6.112	1.194
0.380	354	6.452	1.238
0.400	364	6.791	1.269
0.420	372	7.131	1.292
0.440	372	7.470	1.287
0.460			
0.480			
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



2.197729

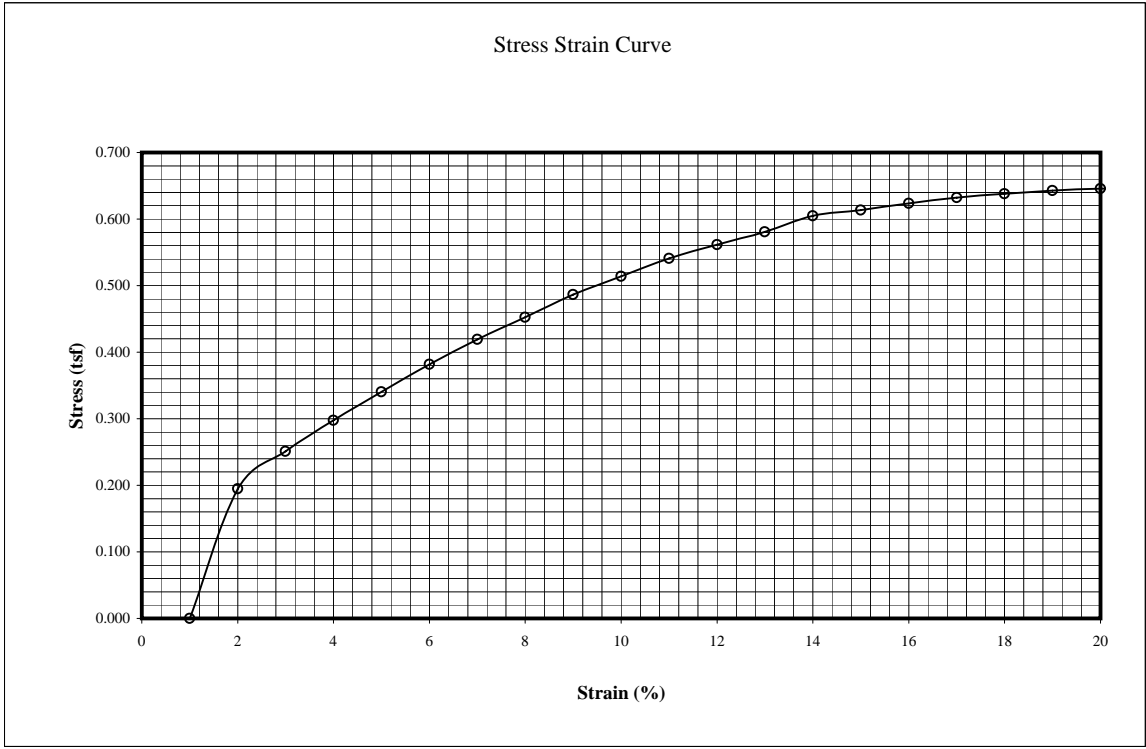
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Med gray clay w/silt & fine sand alt layers & traces of organic matter  
**Boring No.:** 17-4-2  
**Depth (ft):** 9-10  
 Type of Failure: Bulge @ 9%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1091.2  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 35.17%  
 Wet Density (pcf) = 110.1  
 Dry Density (pcf) = 81.5  
**Test Data:**  
 Wet wt. = 147.97  
 Dry wt. = 115.26  
 Can wt. = 22.25  
 Cell Pressure (psi) = 5.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	17.6	0.344	0.195
0.040	22.8	0.688	0.251
0.060	27.1	1.032	0.297
0.080	31.1	1.376	0.340
0.100	35.0	1.720	0.382
0.120	38.6	2.064	0.419
0.140	41.8	2.408	0.452
0.160	45.1	2.752	0.486
0.180	47.8	3.096	0.514
0.200	50.5	3.440	0.541
0.220	52.6	3.784	0.561
0.240	54.6	4.128	0.581
0.260	57.1	4.472	0.605
0.280	58.1	4.816	0.613
0.300	59.3	5.160	0.624
0.320	60.3	5.504	0.632
0.340	61.1	5.848	0.638
0.360	61.8	6.192	0.643
0.380	62.3	6.536	0.646
0.400	62.5	6.880	0.645
0.420	62.5	7.224	0.643
0.440	62.0	7.568	0.636
0.460	61.0	7.912	0.623
0.480	60.3	8.256	0.614
0.500	59.5	8.600	0.603
0.520			
0.540			
0.560			
0.580			
0.600			



6.521451

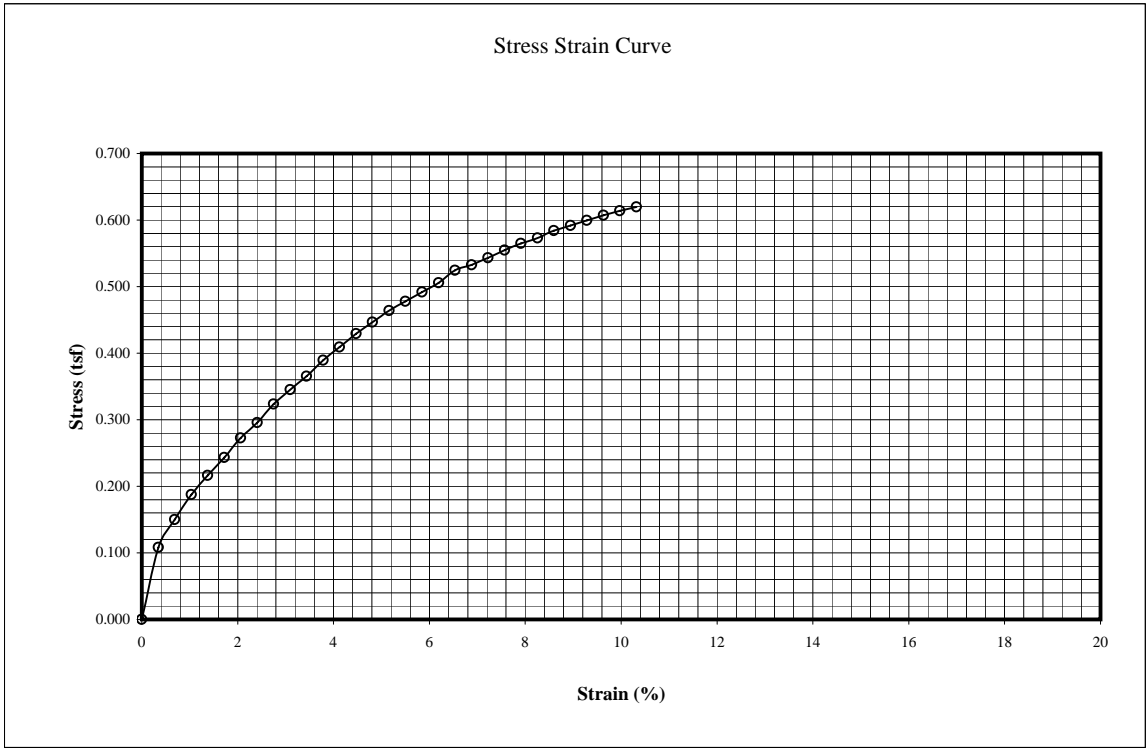
### UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium gray clay with silt seams and wood  
**Boring No.:** 17-4-2  
**Depth (ft):** 10-11  
**Type of Failure:** Yield @ 10%

<b>Sample Data:</b>	<b>Wet wt.</b> = 182.31	<b>Test Data:</b>
Diameter (in.) = 2.875	Area (in <sup>2</sup> ) = 6.492	Cell Pressure (psi) = 5.9
Height (in) = 5.8	Moisture Content (%) = 34.12%	Height Correction = 1.000
Weight (gm) = 1120.7	Can wt. = 20.9	Proving Ring No. = 2011
	Wet Density (pcf) = 113.1	
	Dry Density (pcf) = 84.3	1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	9.8	0.344	0.108
0.040	13.6	0.688	0.150
0.060	17.1	1.032	0.188
0.080	19.8	1.376	0.217
0.100	22.3	1.720	0.243
0.120	25.1	2.064	0.273
0.140	27.3	2.408	0.295
0.160	30.0	2.752	0.324
0.180	32.1	3.096	0.345
0.200	34.1	3.440	0.365
0.220	36.5	3.784	0.389
0.240	38.5	4.128	0.409
0.260	40.5	4.472	0.429
0.280	42.3	4.816	0.447
0.300	44.1	5.160	0.464
0.320	45.6	5.504	0.478
0.340	47.1	5.848	0.492
0.360	48.6	6.192	0.506
0.380	50.6	6.536	0.525
0.400	51.6	6.880	0.533
0.420	52.8	7.224	0.543
0.440	54.1	7.568	0.555
0.460	55.3	7.912	0.565
0.480	56.3	8.256	0.573
0.500	57.6	8.600	0.584
0.520	58.6	8.944	0.592
0.540	59.6	9.288	0.600
0.560	60.6	9.632	0.607
0.580	61.5	9.976	0.614
0.600	62.3	10.320	0.620



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

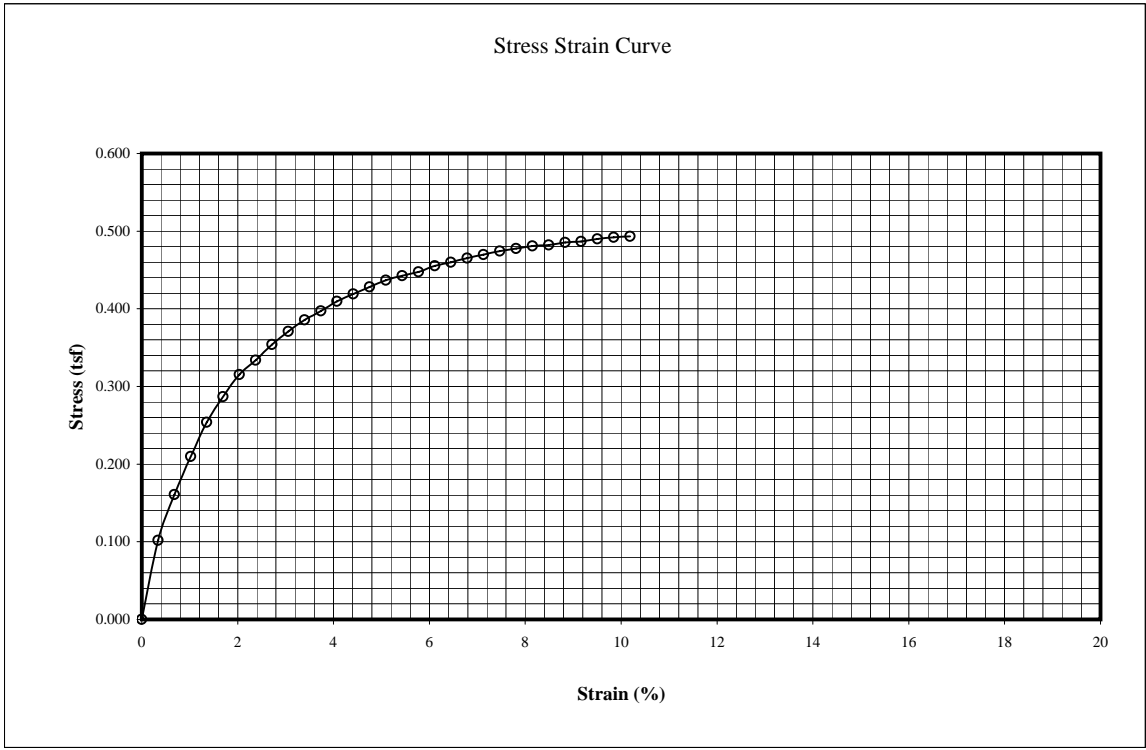
**Material :** Soft gray and brown clay with peat and organics  
**Boring No.:** 17-4-3  
**Depth (ft):** 11.5-13.5

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.9  
 Weight (gm) = 885.7

**Test Data:**  
 Type of Failure: Yield @ 10%  
 Wet wt. = 162.94  
 Dry at. = 83.74  
 Moisture Content (%) = 128.43%  
 Can wt. = 22.07  
 Cell Pressure (psi) = 7.5  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

Area (in<sup>2</sup>) = 6.492  
 Wet Density (pcf) = 88.2  
 Dry Density (pcf) = 38.6

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	9.2	0.340	0.102
0.040	14.6	0.679	0.161
0.060	19.1	1.019	0.210
0.080	23.2	1.358	0.254
0.100	26.3	1.698	0.287
0.120	29.0	2.037	0.315
0.140	30.8	2.377	0.334
0.160	32.8	2.716	0.354
0.180	34.5	3.056	0.371
0.200	36.0	3.396	0.386
0.220	37.2	3.735	0.397
0.240	38.5	4.075	0.410
0.260	39.5	4.414	0.419
0.280	40.5	4.754	0.428
0.300	41.5	5.093	0.437
0.320	42.2	5.433	0.443
0.340	42.8	5.772	0.447
0.360	43.7	6.112	0.455
0.380	44.3	6.452	0.460
0.400	45.0	6.791	0.465
0.420	45.6	7.131	0.470
0.440	46.2	7.470	0.474
0.460	46.7	7.810	0.478
0.480	47.2	8.149	0.481
0.500	47.5	8.489	0.482
0.520	48.0	8.829	0.486
0.540	48.3	9.168	0.487
0.560	48.8	9.508	0.490
0.580	49.2	9.847	0.492
0.600	49.5	10.187	0.493



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

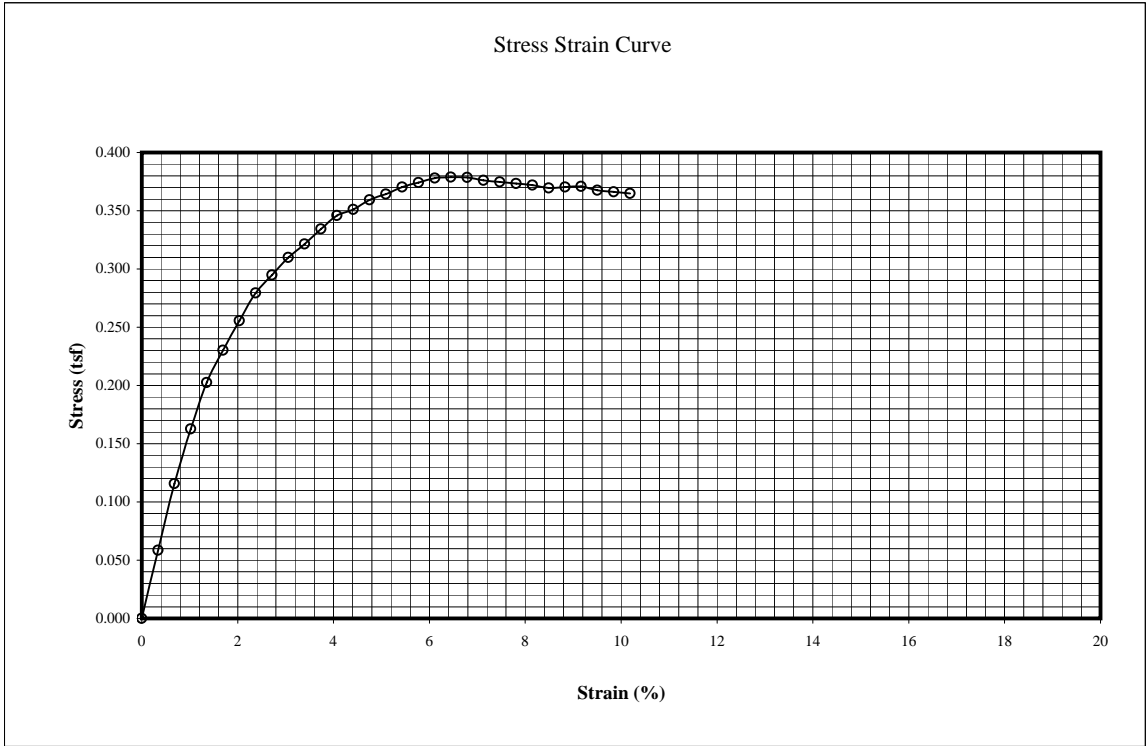
**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Soft dark gray organic clay with peat  
**Boring No.:** 17-4-4  
**Depth (ft):** 14-15

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.9  
 Weight (gm) = 830.0

**Test Data:**  
 Type of Failure:  
 Wet wt. = 126.99  
 Dry at. = 54.52  
 Moisture Content (%) = 261.81%  
 Can wt. = 26.84  
 Cell Pressure (psi) = 8.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 Wet Density (pcf) = 82.7  
 Dry Density (pcf) = 22.9

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	5.3	0.340	0.059
0.040	10.5	0.679	0.116
0.060	14.8	1.019	0.163
0.080	18.5	1.358	0.202
0.100	21.1	1.698	0.230
0.120	23.5	2.037	0.255
0.140	25.8	2.377	0.279
0.160	27.3	2.716	0.295
0.180	28.8	3.056	0.310
0.200	30.0	3.396	0.322
0.220	31.3	3.735	0.334
0.240	32.5	4.075	0.346
0.260	33.1	4.414	0.351
0.280	34.0	4.754	0.359
0.300	34.6	5.093	0.364
0.320	35.3	5.433	0.370
0.340	35.8	5.772	0.374
0.360	36.3	6.112	0.378
0.380	36.5	6.452	0.379
0.400	36.6	6.791	0.379
0.420	36.5	7.131	0.376
0.440	36.5	7.470	0.375
0.460	36.5	7.810	0.373
0.480	36.5	8.149	0.372
0.500	36.4	8.489	0.370
0.520	36.6	8.829	0.370
0.540	36.8	9.168	0.371
0.560	36.6	9.508	0.367
0.580	36.6	9.847	0.366
0.600	36.6	10.187	0.365



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

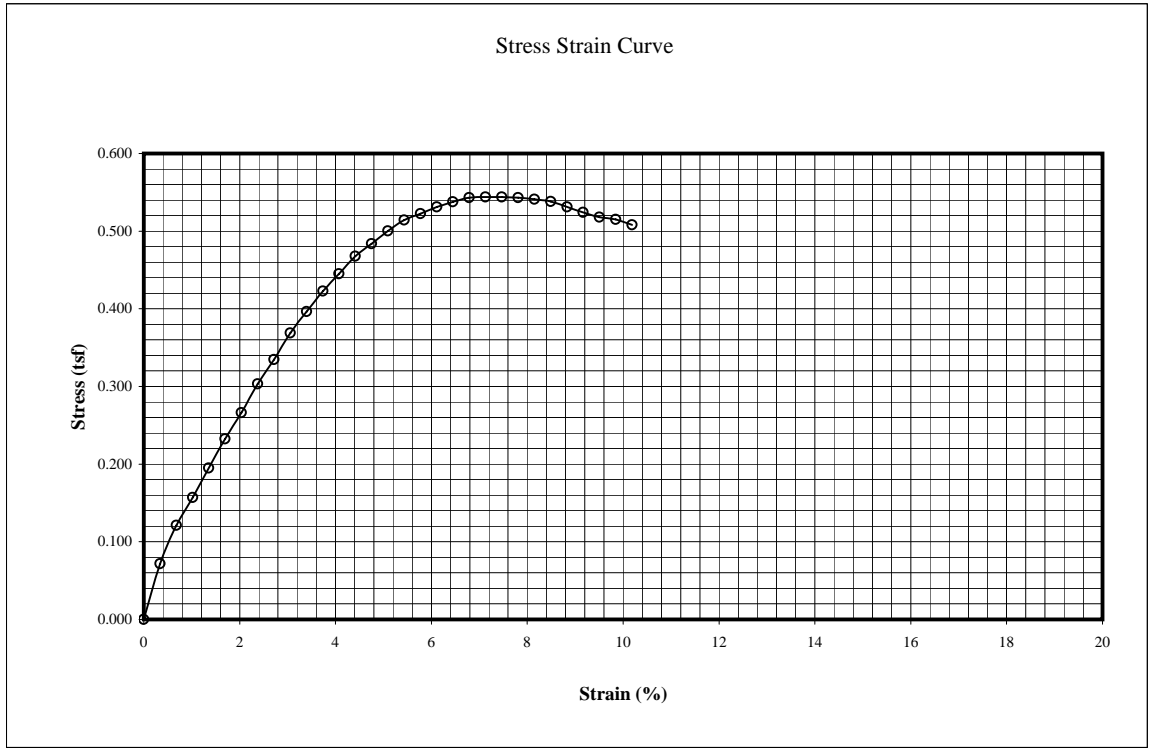
**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium dark gray organic clay with peat  
**Boring No.:** 17-4-4  
**Depth (ft):** 15-16

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.9  
 Weight (gm) = 736.1

**Test Data:**  
 Type of Failure:  
 Wet wt. = 147.46  
 Dry at. = 91.67  
 Moisture Content (%) = 80.25%  
 Can wt. = 22.15  
 Cell Pressure (psi) = 8.9  
 Height Correction = 1.000  
 Wet Density (pcf) = 73.3  
 Proving Ring No. = 2011  
 Dry Density (pcf) = 40.7  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	6.5	0.340	0.072
0.040	11.0	0.679	0.121
0.060	14.3	1.019	0.157
0.080	17.8	1.358	0.195
0.100	21.3	1.698	0.232
0.120	24.5	2.037	0.266
0.140	28.0	2.377	0.303
0.160	31.0	2.716	0.335
0.180	34.3	3.056	0.369
0.200	37.0	3.396	0.397
0.220	39.6	3.735	0.423
0.240	41.8	4.075	0.445
0.260	44.1	4.414	0.468
0.280	45.8	4.754	0.484
0.300	47.5	5.093	0.500
0.320	49.0	5.433	0.514
0.340	50.0	5.772	0.523
0.360	51.0	6.112	0.531
0.380	51.8	6.452	0.538
0.400	52.5	6.791	0.543
0.420	52.8	7.131	0.544
0.440	53.0	7.470	0.544
0.460	53.1	7.810	0.543
0.480	53.1	8.149	0.541
0.500	53.0	8.489	0.538
0.520	52.5	8.829	0.531
0.540	52.0	9.168	0.524
0.560	51.6	9.508	0.518
0.580	51.5	9.847	0.515
0.600	51.0	10.187	0.508



6.521451



**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Very soft gray clay  
**Boring No.:** 17-4-7  
**Depth (ft):** 21.5-22.5

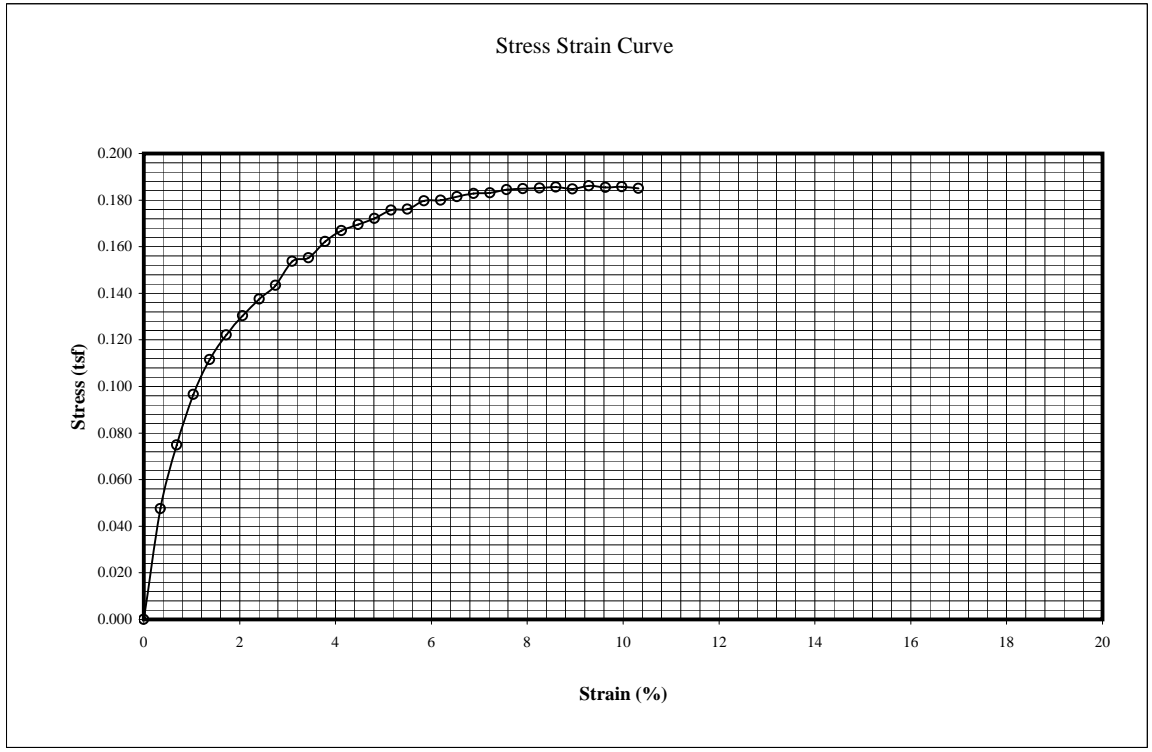
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 942.1

Wet wt. = 146.82  
 Dry at. = 92.09  
 Moisture Content (%) = 77.95%  
 Can wt. = 21.88  
 Wet Density (pcf) = 95.1  
 Dry Density (pcf) = 53.4

**Test Data:**  
 Cell Pressure (psi) = 14.4  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	4.3	0.344	0.048
0.040	6.8	0.688	0.075
0.060	8.8	1.032	0.097
0.080	10.2	1.376	0.112
0.100	11.2	1.720	0.122
0.120	12.0	2.064	0.130
0.140	12.7	2.408	0.137
0.160	13.3	2.752	0.143
0.180	14.3	3.096	0.154
0.200	14.5	3.440	0.155
0.220	15.2	3.784	0.162
0.240	15.7	4.128	0.167
0.260	16.0	4.472	0.170
0.280	16.3	4.816	0.172
0.300	16.7	5.160	0.176
0.320	16.8	5.504	0.176
0.340	17.2	5.848	0.180
0.360	17.3	6.192	0.180
0.380	17.5	6.536	0.181
0.400	17.7	6.880	0.183
0.420	17.8	7.224	0.183
0.440	18.0	7.568	0.185
0.460	18.1	7.912	0.185
0.480	18.2	8.256	0.185
0.500	18.3	8.600	0.186
0.520	18.3	8.944	0.185
0.540	18.5	9.288	0.186
0.560	18.5	9.632	0.185
0.580	18.6	9.976	0.186
0.600	18.6	10.320	0.185



6.521451

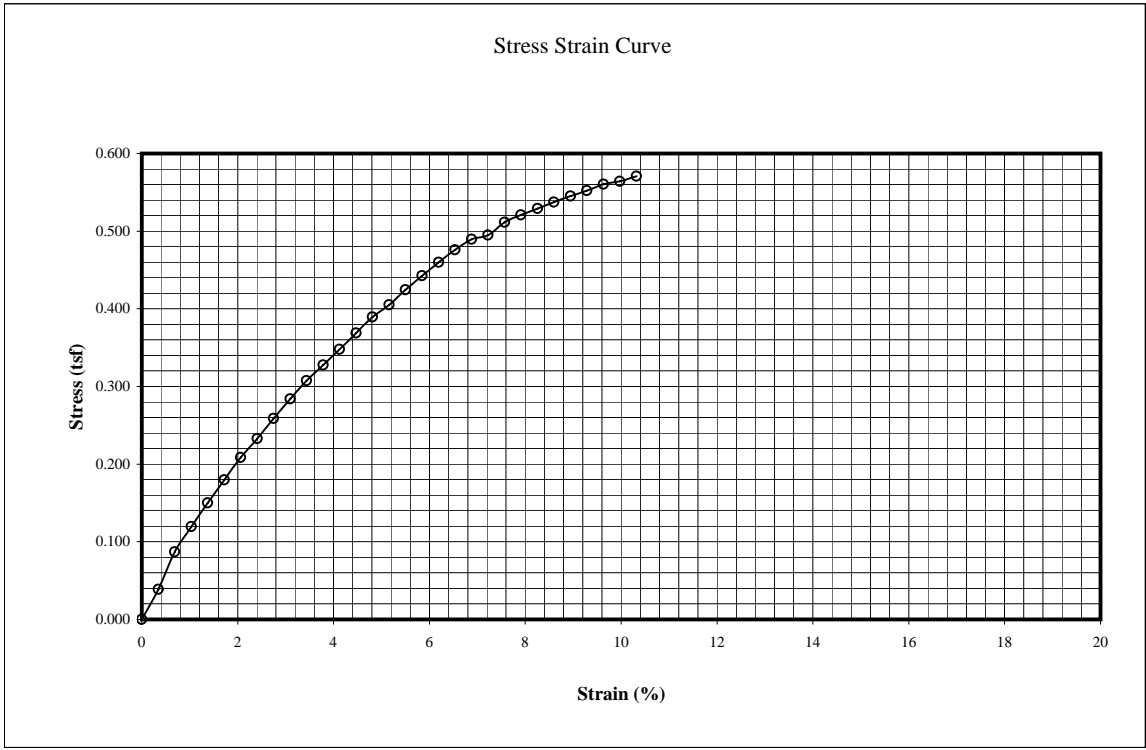
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Soft gray silty sandy clay (alt. Layers)      **Type of Failure:** Yield @ 10%  
**Boring No.:** 17-4-7  
**Depth (ft):** 22.5-23.5

**Sample Data:**  
 Diameter (in.) = 2.875      Wet wt. = 204.42  
 Height (in.) = 5.8      Area (in<sup>2</sup>) = 6.492      Dry wt. = 146.12  
 Weight (gm) = 1131.0      Moisture Content (%) = 46.61%      Can wt. = 21.05  
 Wet Density (pcf) = 114.2      **Test Data:**  
 Dry Density (pcf) = 77.9      Cell Pressure (psi) = 14.4  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	3.5	0.344	0.039
0.040	7.9	0.688	0.087
0.060	10.9	1.032	0.120
0.080	13.7	1.376	0.150
0.100	16.5	1.720	0.180
0.120	19.2	2.064	0.209
0.140	21.5	2.408	0.233
0.160	24.0	2.752	0.259
0.180	26.4	3.096	0.284
0.200	28.7	3.440	0.307
0.220	30.7	3.784	0.328
0.240	32.7	4.128	0.348
0.260	34.8	4.472	0.369
0.280	36.9	4.816	0.390
0.300	38.5	5.160	0.405
0.320	40.5	5.504	0.424
0.340	42.4	5.848	0.443
0.360	44.2	6.192	0.460
0.380	45.9	6.536	0.476
0.400	47.4	6.880	0.490
0.420	48.1	7.224	0.495
0.440	49.9	7.568	0.512
0.460	51.0	7.912	0.521
0.480	52.0	8.256	0.529
0.500	53.0	8.600	0.537
0.520	54.0	8.944	0.545
0.540	54.9	9.288	0.552
0.560	55.9	9.632	0.560
0.580	56.5	9.976	0.564
0.600	57.4	10.320	0.571



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

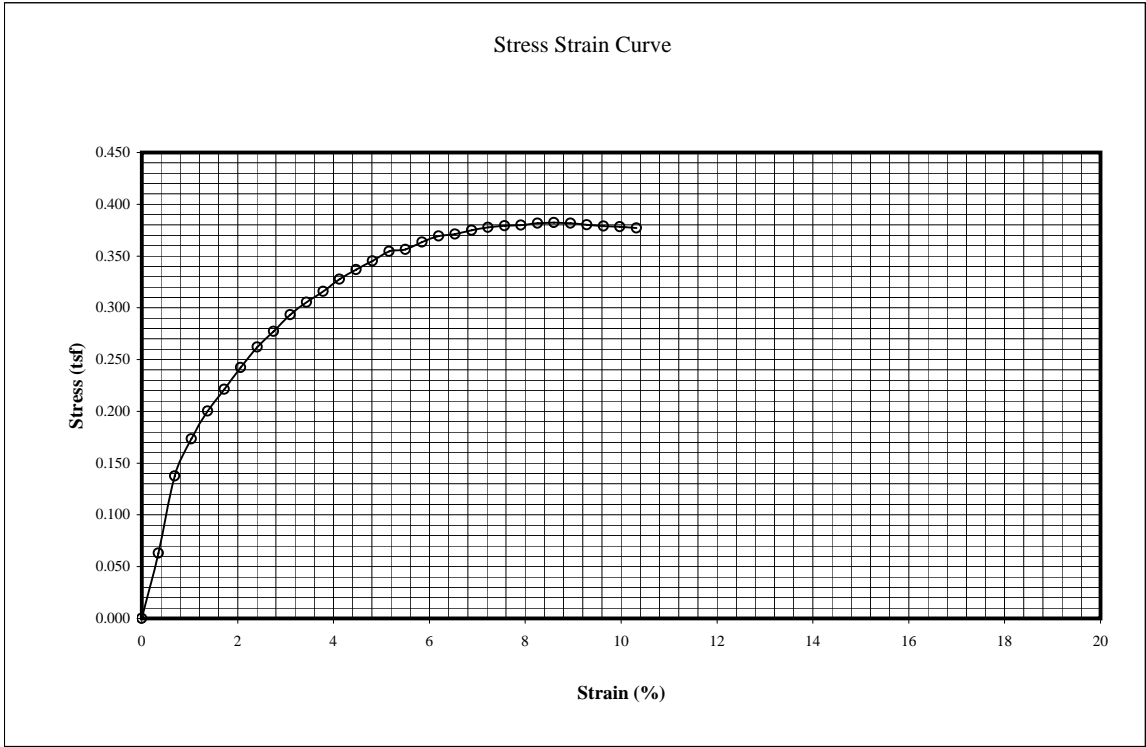
**Material:** Soft gray clay w/alt. Layers of silty fine sand  
**Boring No.:** 17-4-8  
**Depth (ft):** 25-27

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 981.4

**Test Data:**  
 Type of Failure: Yield @ 10%  
 Wet wt. = 159.49  
 Dry at. = 104.48  
 Can wt. = 20.88  
 Cell Pressure (psi) = 15.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 65.80%  
 Wet Density (pcf) = 99.1  
 Dry Density (pcf) = 59.7

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0.0	0.000	0.000
0.020	5.7	0.344	0.063
0.040	12.5	0.688	0.138
0.060	15.8	1.032	0.173
0.080	18.3	1.376	0.200
0.100	20.3	1.720	0.221
0.120	22.3	2.064	0.242
0.140	24.2	2.408	0.262
0.160	25.7	2.752	0.277
0.180	27.3	3.096	0.293
0.200	28.5	3.440	0.305
0.220	29.6	3.784	0.316
0.240	30.8	4.128	0.327
0.260	31.8	4.472	0.337
0.280	32.7	4.816	0.345
0.300	33.7	5.160	0.354
0.320	34.0	5.504	0.356
0.340	34.8	5.848	0.363
0.360	35.5	6.192	0.369
0.380	35.8	6.536	0.371
0.400	36.3	6.880	0.375
0.420	36.7	7.224	0.378
0.440	37.0	7.568	0.379
0.460	37.2	7.912	0.380
0.480	37.5	8.256	0.382
0.500	37.7	8.600	0.382
0.520	37.8	8.944	0.382
0.540	37.8	9.288	0.380
0.560	37.8	9.632	0.379
0.580	37.9	9.976	0.378
0.600	37.9	10.320	0.377



6.521451

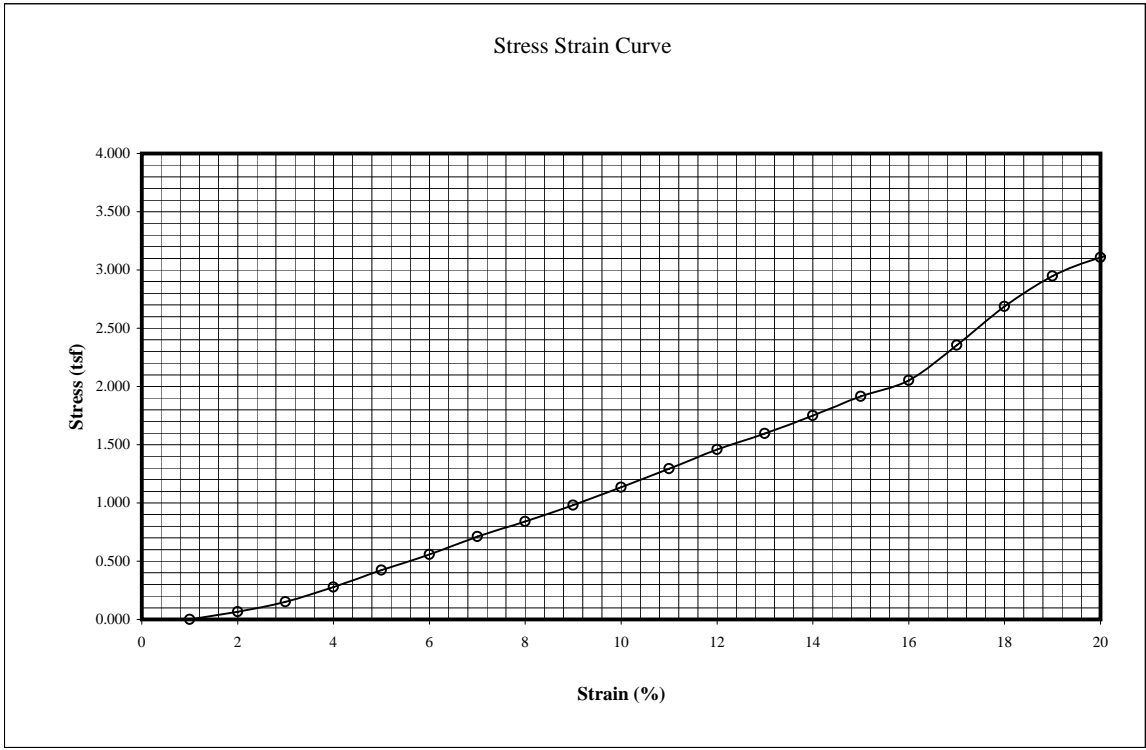
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very stiff tan and brown clay with silt  
**Boring No.:** 17-5-1  
**Depth (ft):** 3-5  
**Type of Failure:** Vertical @ 7.4%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.9  
 Weight (gm) = 1267.3  
 Wet wt. = 162.22  
 Dry wt. = 142.28  
 Can wt. = 28.9  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 17.59%  
 Wet Density (pcf) = 126.3  
 Dry Density (pcf) = 107.4  
**Test Data:**  
 Cell Pressure (psi) =  
 Height Correction = 1.000  
 Proving Ring No. = 9839  
 0.337

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	18	0.340	0.067
0.040	41	0.679	0.152
0.060	75	1.019	0.278
0.080	115	1.358	0.424
0.100	152	1.698	0.559
0.120	194	2.037	0.711
0.140	230	2.377	0.840
0.160	270	2.716	0.982
0.180	313	3.056	1.135
0.200	358	3.396	1.293
0.220	405	3.735	1.458
0.240	445	4.075	1.596
0.260	490	4.414	1.751
0.280	538	4.754	1.916
0.300	578	5.093	2.051
0.320	620	5.433	2.353
0.340	660	5.772	2.686
0.360	692	6.112	2.948
0.380	712	6.452	3.107
0.400	725	6.791	3.205
0.420	736	7.131	3.286
0.440	742	7.470	3.324
0.460			
0.480			
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



2.197729

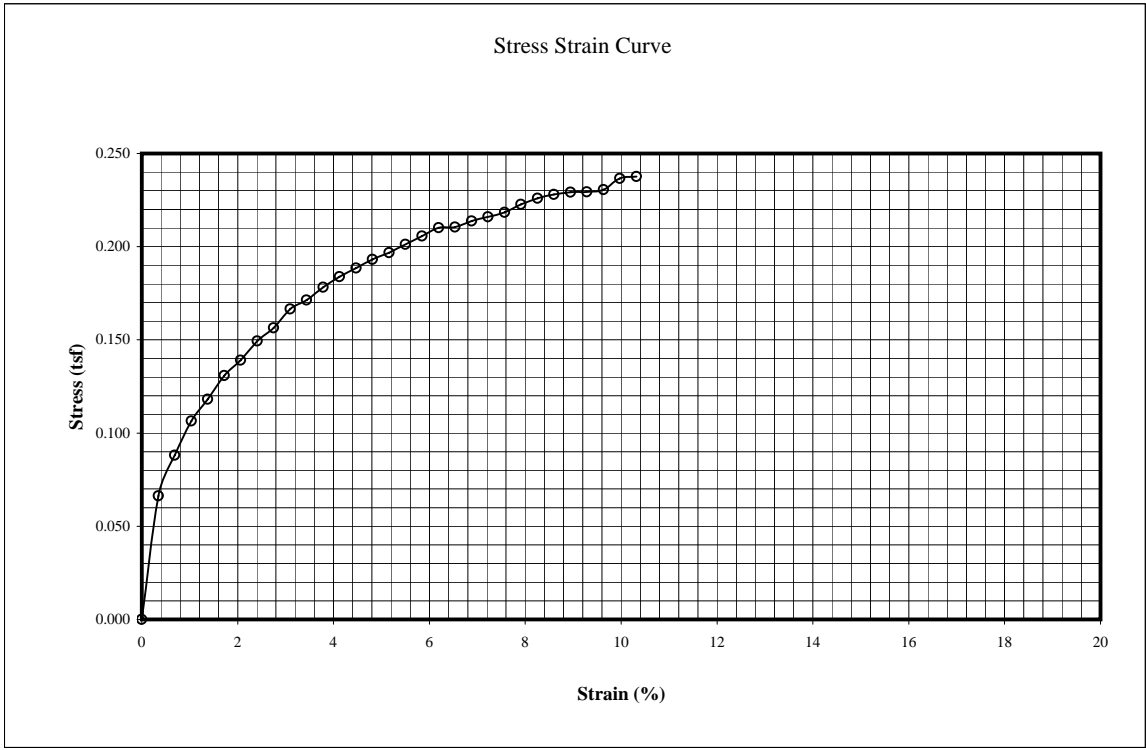
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray clay with siltlenses and wood  
**Boring No.:** 17-5-6  
**Depth (ft):** 22-24  
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 5.8  
 Weight (gm) = 954.4  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 77.69%  
 Wet Density (pcf) = 96.3  
 Dry Density (pcf) = 54.2  
**Wet wt.** 136.11  
**Dry wt.** 85.72  
**Can wt.** 20.86  
**Test Data:**  
 Cell Pressure (psi) = 14.4  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	6.0	0.344	0.066
0.040	8.0	0.688	0.088
0.060	9.7	1.032	0.106
0.080	10.8	1.376	0.118
0.100	12.0	1.720	0.131
0.120	12.8	2.064	0.139
0.140	13.8	2.408	0.149
0.160	14.5	2.752	0.156
0.180	15.5	3.096	0.167
0.200	16.0	3.440	0.171
0.220	16.7	3.784	0.178
0.240	17.3	4.128	0.184
0.260	17.8	4.472	0.189
0.280	18.3	4.816	0.193
0.300	18.7	5.160	0.197
0.320	19.2	5.504	0.201
0.340	19.7	5.848	0.206
0.360	20.2	6.192	0.210
0.380	20.3	6.536	0.210
0.400	20.7	6.880	0.214
0.420	21.0	7.224	0.216
0.440	21.3	7.568	0.218
0.460	21.8	7.912	0.223
0.480	22.2	8.256	0.226
0.500	22.5	8.600	0.228
0.520	22.7	8.944	0.229
0.540	22.8	9.288	0.229
0.560	23.0	9.632	0.231
0.580	23.7	9.976	0.237
0.600	23.9	10.320	0.238



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

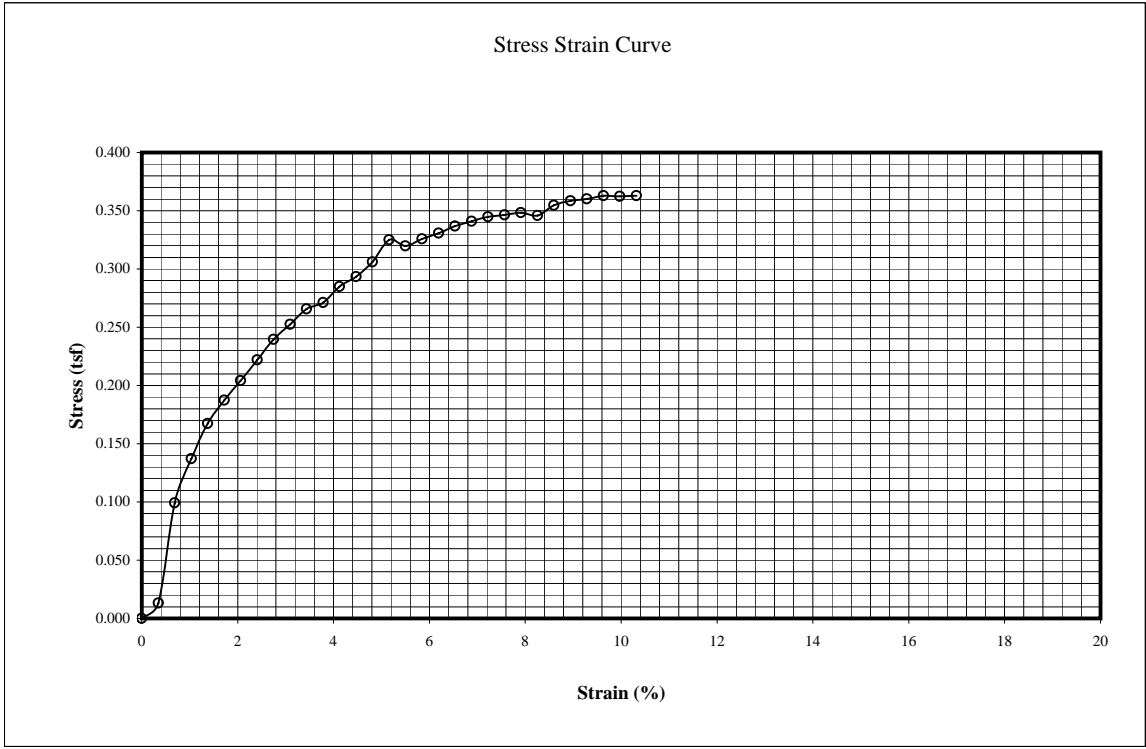
**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Soft gray clay w/alt. Seams of silty fine sand  
**Boring No.:** 17-5-7  
**Depth (ft):** 25-27

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 999.2

**Test Data:**  
 Type of Failure: Yield @ 10%  
 Wet wt. = 143.77  
 Dry at. = 107.04  
 Moisture Content (%) = 42.65%  
 Can wt. = 20.92  
 Cell Pressure (psi) = 16.7  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 Dry Density (pcf) = 100.8  
 Dry Density (pcf) = 70.7

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	1.2	0.344	0.013
0.040	9.0	0.688	0.099
0.060	12.5	1.032	0.137
0.080	15.3	1.376	0.167
0.100	17.2	1.720	0.187
0.120	18.8	2.064	0.204
0.140	20.5	2.408	0.222
0.160	22.2	2.752	0.239
0.180	23.5	3.096	0.253
0.200	24.8	3.440	0.266
0.220	25.4	3.784	0.271
0.240	26.8	4.128	0.285
0.260	27.7	4.472	0.293
0.280	29.0	4.816	0.306
0.300	30.9	5.160	0.325
0.320	30.5	5.504	0.320
0.340	31.2	5.848	0.326
0.360	31.8	6.192	0.331
0.380	32.5	6.536	0.337
0.400	33.0	6.880	0.341
0.420	33.5	7.224	0.345
0.440	33.8	7.568	0.347
0.460	34.1	7.912	0.348
0.480	34.0	8.256	0.346
0.500	35.0	8.600	0.355
0.520	35.5	8.944	0.359
0.540	35.8	9.288	0.360
0.560	36.2	9.632	0.363
0.580	36.3	9.976	0.362
0.600	36.5	10.320	0.363



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Very soft organic clay  
**Boring No.:** LAC-1-1  
**Depth (ft):** 3-4

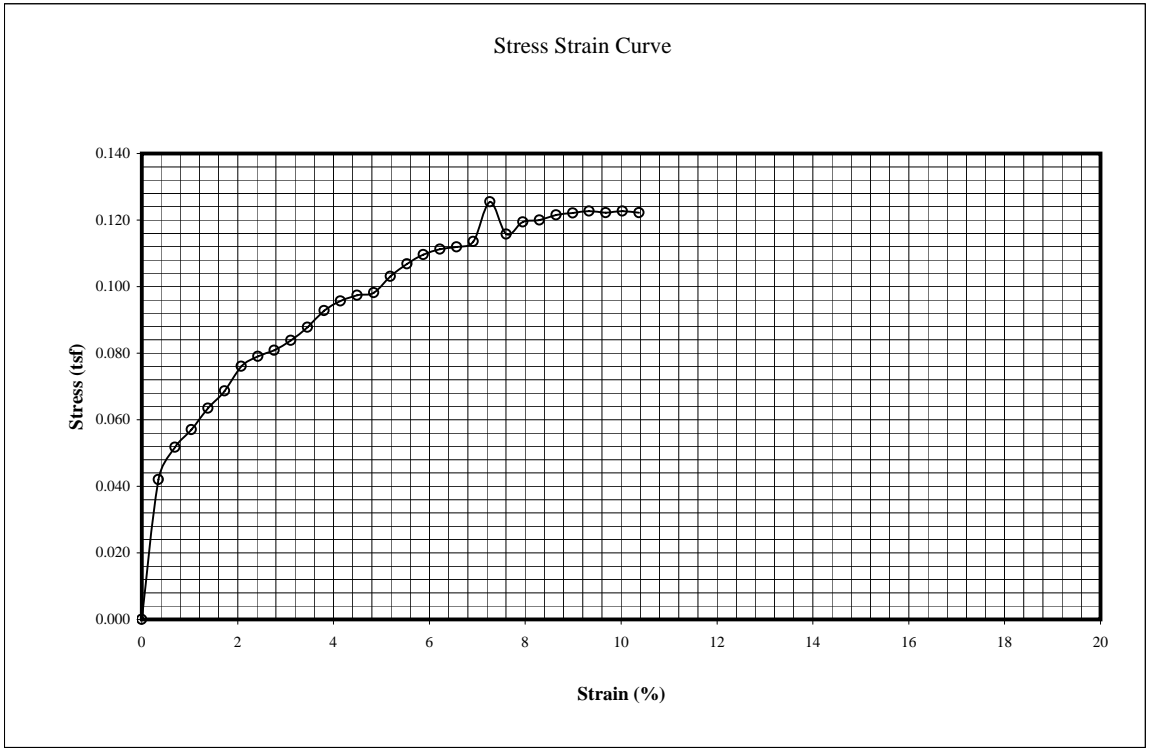
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 852.6

Wet wt. = 142.26  
 Dry at. = 75.15  
 Moisture Content (%) = 123.75%  
 Can wt. = 20.92  
 Wet Density (pcf) = 86.5  
 Dry Density (pcf) = 38.7

**Test Data:**  
 Cell Pressure (psi) = 3.0  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	3.8	0.346	0.042
0.040	4.7	0.691	0.052
0.060	5.2	1.037	0.057
0.080	5.8	1.383	0.063
0.100	6.3	1.729	0.069
0.120	7.0	2.074	0.076
0.140	7.3	2.420	0.079
0.160	7.5	2.766	0.081
0.180	7.8	3.111	0.084
0.200	8.2	3.457	0.088
0.220	8.7	3.803	0.093
0.240	9.0	4.149	0.096
0.260	9.2	4.494	0.097
0.280	9.3	4.840	0.098
0.300	9.8	5.186	0.103
0.320	10.2	5.532	0.107
0.340	10.5	5.877	0.110
0.360	10.7	6.223	0.111
0.380	10.8	6.569	0.112
0.400	11.0	6.914	0.114
0.420	12.2	7.260	0.125
0.440	11.3	7.606	0.116
0.460	11.7	7.952	0.119
0.480	11.8	8.297	0.120
0.500	12.0	8.643	0.122
0.520	12.1	8.989	0.122
0.540	12.2	9.334	0.123
0.560	12.2	9.680	0.122
0.580	12.3	10.026	0.123
0.600	12.3	10.372	0.122



6.521451

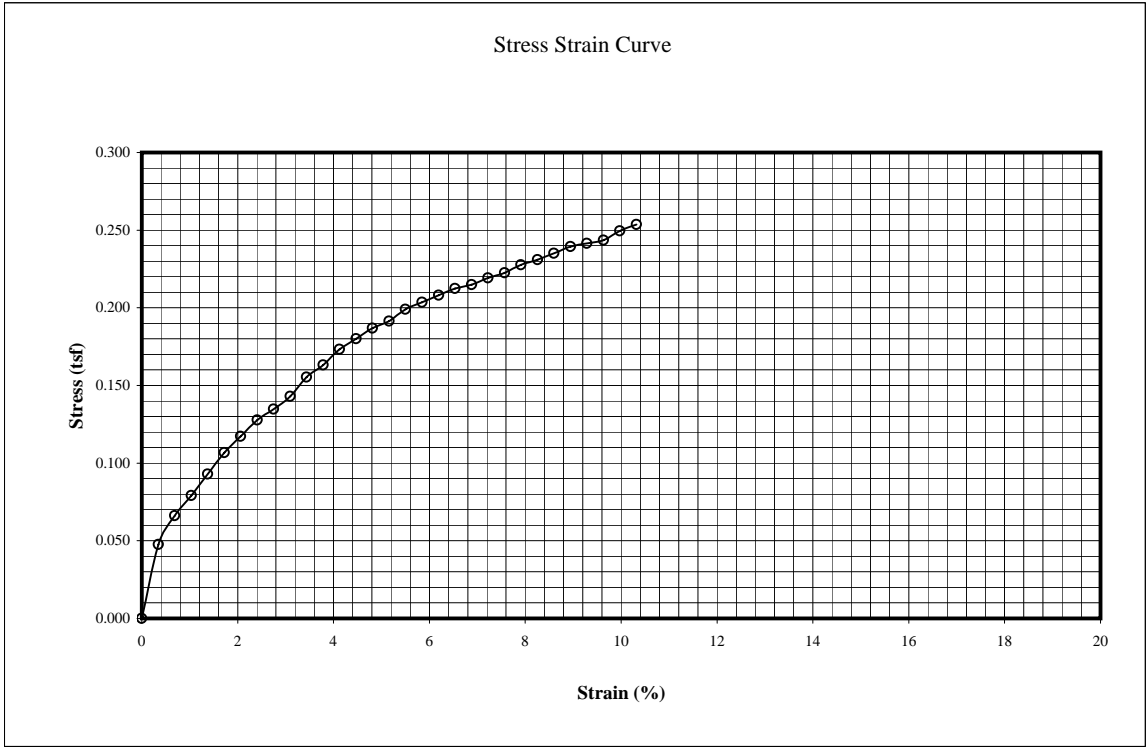
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Soft gray clay with fine sand  
**Boring No.:** LAC-1-1  
**Depth (ft):** 5-6  
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1143.7  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 47.68%  
 Wet Density (pcf) = 115.4  
 Dry Density (pcf) = 78.2  
**Wet wt.** 198.4  
**Dry wt.** 143.55  
**Can wt.** 28.51  
**Test Data:**  
 Cell Pressure (psi) = 3.0  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	4.3	0.344	0.048
0.040	6.0	0.688	0.066
0.060	7.2	1.032	0.079
0.080	8.5	1.376	0.093
0.100	9.8	1.720	0.107
0.120	10.8	2.064	0.117
0.140	11.8	2.408	0.128
0.160	12.5	2.752	0.135
0.180	13.3	3.096	0.143
0.200	14.5	3.440	0.155
0.220	15.3	3.784	0.163
0.240	16.3	4.128	0.173
0.260	17.0	4.472	0.180
0.280	17.7	4.816	0.187
0.300	18.2	5.160	0.191
0.320	19.0	5.504	0.199
0.340	19.5	5.848	0.204
0.360	20.0	6.192	0.208
0.380	20.5	6.536	0.213
0.400	20.8	6.880	0.215
0.420	21.3	7.224	0.219
0.440	21.7	7.568	0.222
0.460	22.3	7.912	0.228
0.480	22.7	8.256	0.231
0.500	23.2	8.600	0.235
0.520	23.7	8.944	0.239
0.540	24.0	9.288	0.241
0.560	24.3	9.632	0.244
0.580	25.0	9.976	0.250
0.600	25.5	10.320	0.254



6.521451



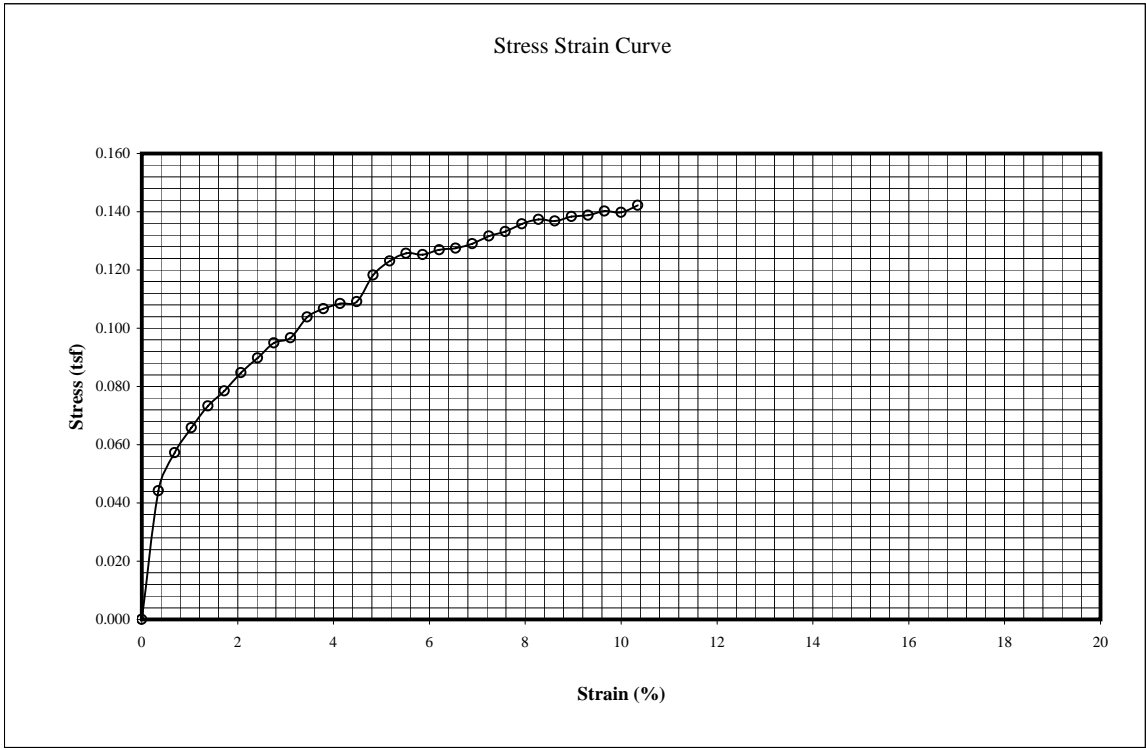
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft clay w/ 1/2" sand layer at bottom  
**Boring No.:** LAC-1-2  
**Depth (ft):** 6-8  
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1111.1  
 Wet wt. = 151.2  
 Dry at. = 108.24  
 Moisture Content (%) = 51.65%  
 Can wt. = 25.06  
 Wet Density (pcf) = 112.4  
 Dry Density (pcf) = 74.1  
**Test Data:**  
 Cell Pressure (psi) = 4.1  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	4.0	0.345	0.044
0.040	5.2	0.690	0.057
0.060	6.0	1.034	0.066
0.080	6.7	1.379	0.073
0.100	7.2	1.724	0.078
0.120	7.8	2.069	0.085
0.140	8.3	2.414	0.090
0.160	8.8	2.759	0.095
0.180	9.0	3.103	0.097
0.200	9.7	3.448	0.104
0.220	10.0	3.793	0.107
0.240	10.2	4.138	0.108
0.260	10.3	4.483	0.109
0.280	11.2	4.828	0.118
0.300	11.7	5.172	0.123
0.320	12.0	5.517	0.126
0.340	12.0	5.862	0.125
0.360	12.2	6.207	0.127
0.380	12.3	6.552	0.127
0.400	12.5	6.897	0.129
0.420	12.8	7.241	0.132
0.440	13.0	7.586	0.133
0.460	13.3	7.931	0.136
0.480	13.5	8.276	0.137
0.500	13.5	8.621	0.137
0.520	13.7	8.966	0.138
0.540	13.8	9.310	0.139
0.560	14.0	9.655	0.140
0.580	14.0	10.000	0.140
0.600	14.3	10.345	0.142



6.521451

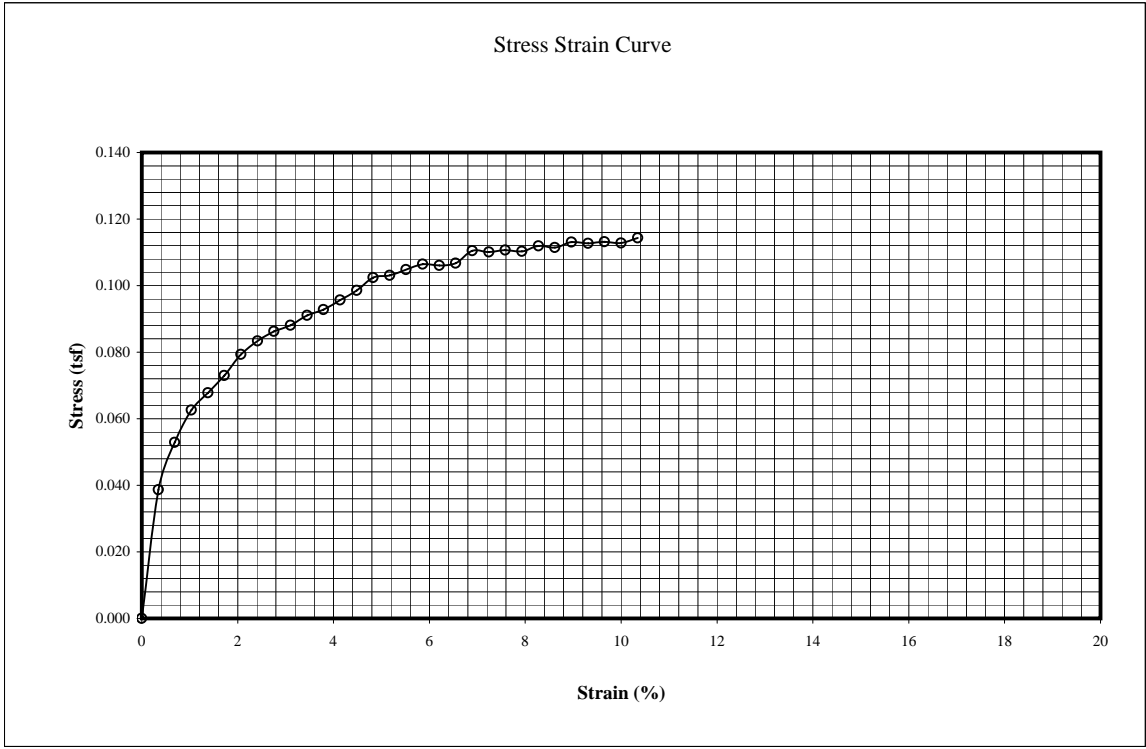
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray sandy clay w/wood & clay pockets  
**Boring No.:** LAC-1-3  
**Depth (ft):** 8.5-9.5  
 Type of Failure: Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 947.4  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 32.58%  
 Wet Density (pcf) = 95.9  
 Dry Density (pcf) = 72.3  
**Test Data:**  
 Wet wt. = 185.35  
 Dry wt. = 145.26  
 Can wt. = 22.22  
 Cell Pressure (psi) = 5.6  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	3.5	0.345	0.039
0.040	4.8	0.690	0.053
0.060	5.7	1.034	0.063
0.080	6.2	1.379	0.068
0.100	6.7	1.724	0.073
0.120	7.3	2.069	0.079
0.140	7.7	2.414	0.083
0.160	8.0	2.759	0.086
0.180	8.2	3.103	0.088
0.200	8.5	3.448	0.091
0.220	8.7	3.793	0.093
0.240	9.0	4.138	0.096
0.260	9.3	4.483	0.099
0.280	9.7	4.828	0.102
0.300	9.8	5.172	0.103
0.320	10.0	5.517	0.105
0.340	10.2	5.862	0.106
0.360	10.2	6.207	0.106
0.380	10.3	6.552	0.107
0.400	10.7	6.897	0.110
0.420	10.7	7.241	0.110
0.440	10.8	7.586	0.111
0.460	10.8	7.931	0.110
0.480	11.0	8.276	0.112
0.500	11.0	8.621	0.111
0.520	11.2	8.966	0.113
0.540	11.2	9.310	0.113
0.560	11.3	9.655	0.113
0.580	11.3	10.000	0.113
0.600	11.5	10.345	0.114



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Firm gray fine sand with 2" clayey sand layer  
**Boring No.:** LAC-1-3  
**Depth (ft):** 9.5-10.5

**Type of Failure:** Bulge @ 4%

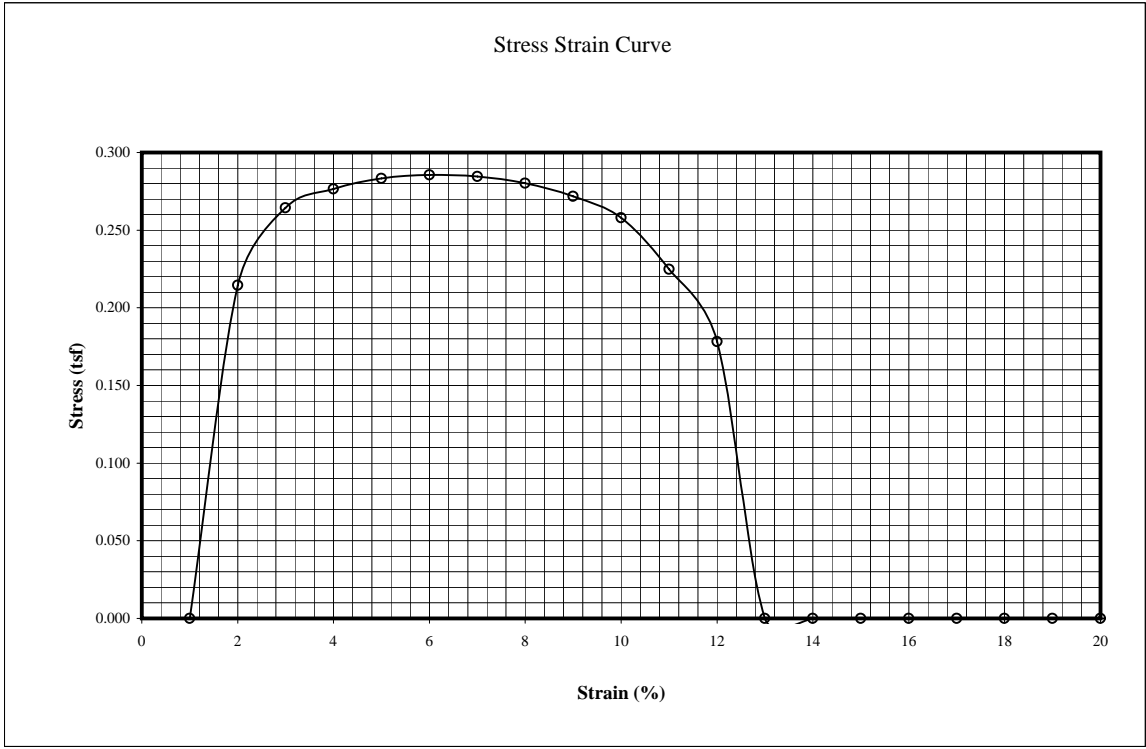
**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1160.9

Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 30.18%  
 Wet Density (pcf) = 117.5  
 Dry Density (pcf) = 90.2

Wet wt. = 197.24  
 Dry wt. = 158.25  
 Can wt. = 29.07

**Test Data:**  
 Cell Pressure (psi) = 5.6  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	19.4	0.345	0.214
0.040	24.0	0.690	0.264
0.060	25.2	1.034	0.277
0.080	25.9	1.379	0.283
0.100	26.2	1.724	0.286
0.120	26.2	2.069	0.285
0.140	25.9	2.414	0.280
0.160	25.2	2.759	0.272
0.180	24.0	3.103	0.258
0.200	21.0	3.448	0.225
0.220	16.7	3.793	0.178
0.240			
0.260			
0.280			
0.300			
0.320			
0.340			
0.360			
0.380			
0.400			
0.420			
0.440			
0.460			
0.480			
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium gray clay with some silt  
**Boring No.:** LAC-2-4  
**Depth (ft):** 44-45

**Type of Failure:** Yield @ 10%

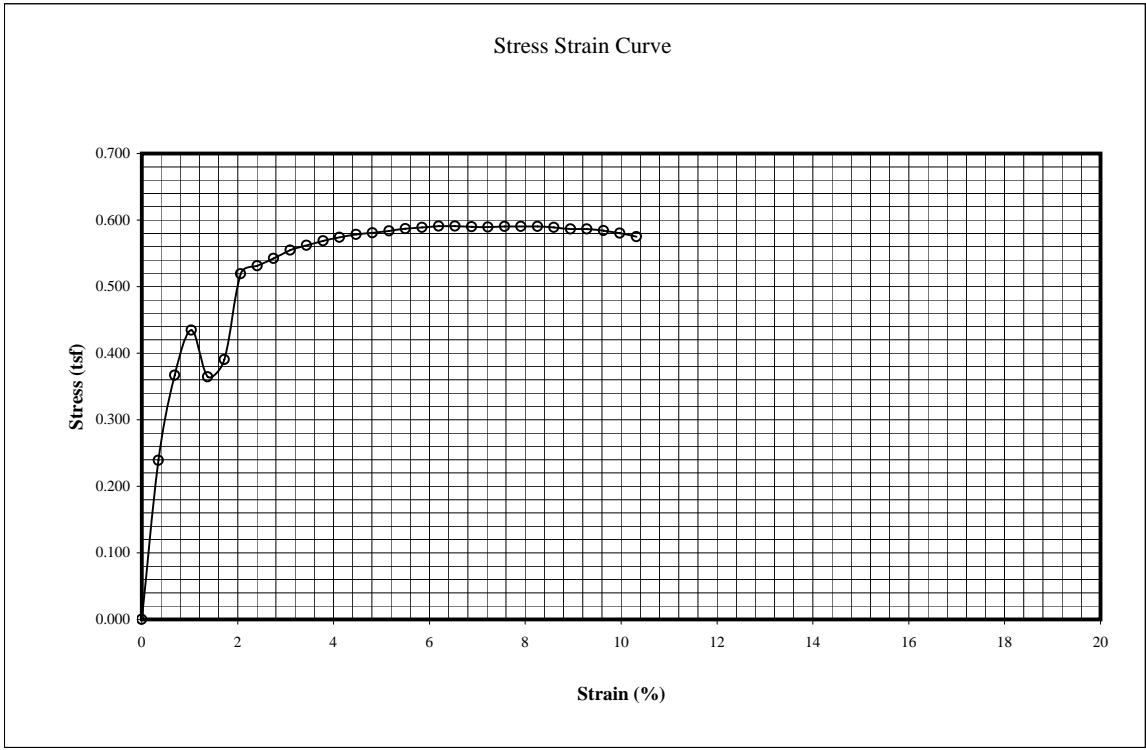
**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 5.8  
 Weight (gm) = 1006.6

Wet wt. = 207.31  
 Dry wt. = 124.65  
 Can wt. = 29.05

Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 86.46%  
 Wet Density (pcf) = 101.6  
 Dry Density (pcf) = 54.5

**Test Data:**  
 Cell Pressure (psi) = 26.6  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	21.6	0.344	0.239
0.040	33.3	0.688	0.367
0.060	39.6	1.032	0.435
0.080	33.3	1.376	0.364
0.100	35.8	1.720	0.390
0.120	47.8	2.064	0.519
0.140	49.1	2.408	0.531
0.160	50.3	2.752	0.543
0.180	51.6	3.096	0.555
0.200	52.5	3.440	0.562
0.220	53.3	3.784	0.569
0.240	54.0	4.128	0.574
0.260	54.6	4.472	0.578
0.280	55.0	4.816	0.581
0.300	55.5	5.160	0.584
0.320	56.0	5.504	0.587
0.340	56.4	5.848	0.589
0.360	56.8	6.192	0.591
0.380	57.0	6.536	0.591
0.400	57.1	6.880	0.590
0.420	57.3	7.224	0.590
0.440	57.6	7.568	0.590
0.460	57.8	7.912	0.590
0.480	58.0	8.256	0.590
0.500	58.1	8.600	0.589
0.520	58.1	8.944	0.587
0.540	58.3	9.288	0.587
0.560	58.3	9.632	0.584
0.580	58.1	9.976	0.580
0.600	57.8	10.320	0.575



6.521451

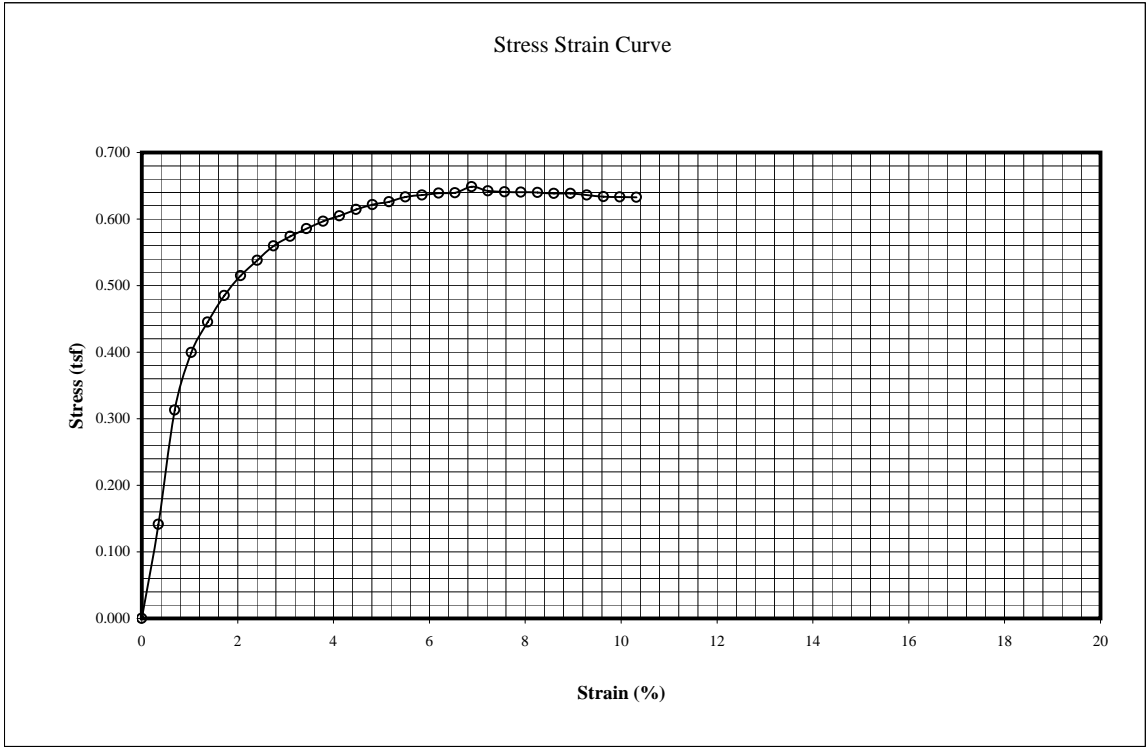
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium gray clay w/silt seams & shell fragments  
**Boring No.:** LAC-2-4  
**Depth (ft):** 45-46  
 Type of Failure: Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 5.8  
 Weight (gm) = 1041.3  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 57.75%  
 Wet Density (pcf) = 105.1  
 Dry Density (pcf) = 66.6  
**Test Data:**  
 Wet wt. = 195.39  
 Dry wt. = 131.96  
 Can wt. = 22.12  
 Cell Pressure (psi) = 26.6  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	12.8	0.344	0.141
0.040	28.4	0.688	0.313
0.060	36.4	1.032	0.400
0.080	40.7	1.376	0.445
0.100	44.5	1.720	0.485
0.120	47.4	2.064	0.515
0.140	49.7	2.408	0.538
0.160	51.9	2.752	0.560
0.180	53.4	3.096	0.574
0.200	54.7	3.440	0.586
0.220	55.9	3.784	0.597
0.240	56.9	4.128	0.605
0.260	58.0	4.472	0.615
0.280	58.9	4.816	0.622
0.300	59.5	5.160	0.626
0.320	60.4	5.504	0.633
0.340	60.9	5.848	0.636
0.360	61.4	6.192	0.639
0.380	61.7	6.536	0.640
0.400	62.8	6.880	0.649
0.420	62.4	7.224	0.642
0.440	62.5	7.568	0.641
0.460	62.7	7.912	0.640
0.480	62.9	8.256	0.640
0.500	63.0	8.600	0.639
0.520	63.2	8.944	0.638
0.540	63.2	9.288	0.636
0.560	63.2	9.632	0.633
0.580	63.4	9.976	0.633
0.600	63.6	10.320	0.633



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium gray sandy clay to sand  
**Boring No.:** LAC-3-3  
**Depth (ft):** 7.5-8.5

Type of Failure: Vertical @ 4%

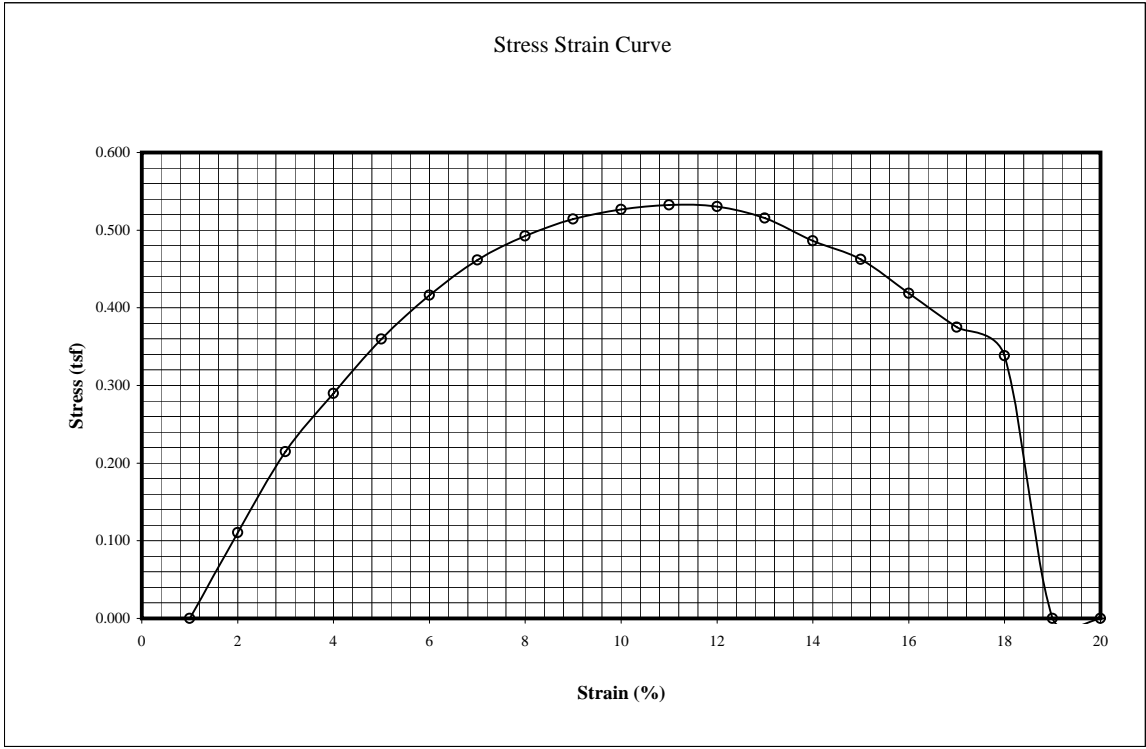
**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1246.1

Wet wt. = 193.85  
 Dry wt. = 164.29  
 Can wt. = 28.69

Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 21.80%  
 Wet Density (pcf) = 125.8  
 Dry Density (pcf) = 103.3

**Test Data:**  
 Cell Pressure (psi) = 4.3  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	10.0	0.344	0.111
0.040	19.5	0.688	0.215
0.060	26.4	1.032	0.290
0.080	32.9	1.376	0.360
0.100	38.2	1.720	0.416
0.120	42.5	2.064	0.462
0.140	45.5	2.408	0.492
0.160	47.7	2.752	0.514
0.180	49.0	3.096	0.527
0.200	49.7	3.440	0.532
0.220	49.7	3.784	0.530
0.240	48.5	4.128	0.516
0.260	45.9	4.472	0.486
0.280	43.8	4.816	0.462
0.300	39.8	5.160	0.419
0.320	35.8	5.504	0.375
0.340	32.4	5.848	0.338
0.360			
0.380			
0.400			
0.420			
0.440			
0.460			
0.480			
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Firm gray sand with clay  
**Boring No.:** LAC-3-4  
**Depth (ft):** 9-11

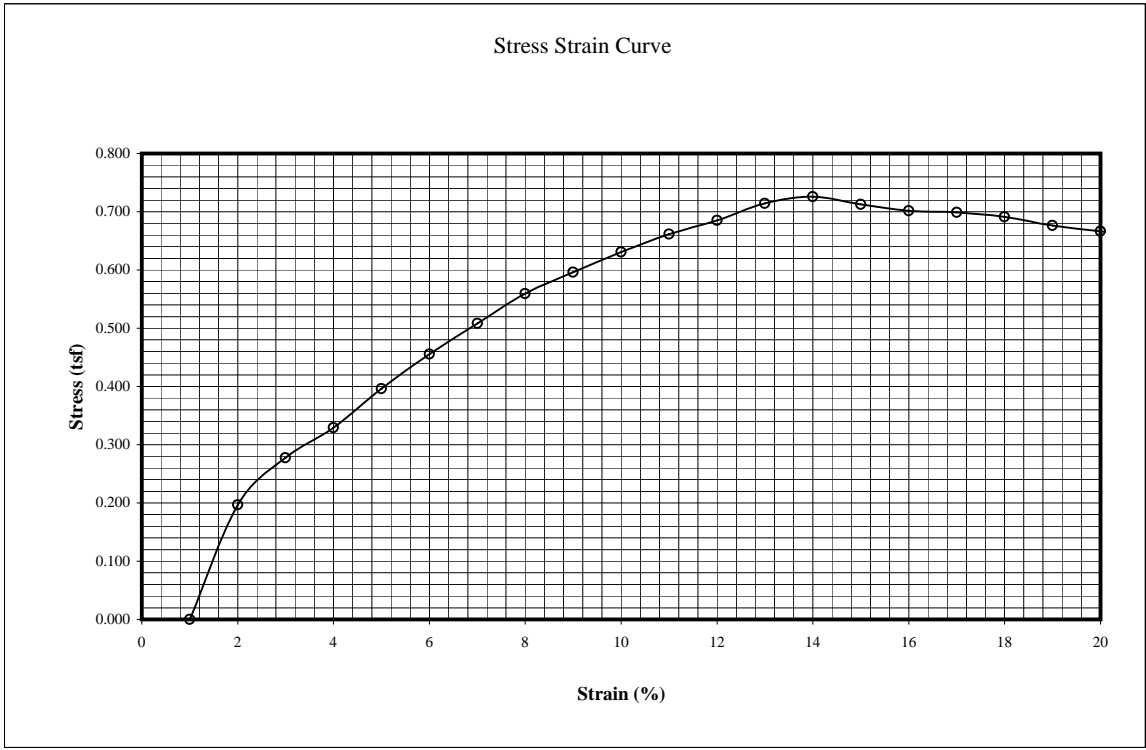
**Type of Failure:** Bulge @ 7%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1208.9

Wet wt. = 151.05  
 Dry at. = 123.97  
 Moisture Content (%) = 26.58%  
 Can wt. = 22.08  
 Wet Density (pcf) = 122.3  
 Dry Density (pcf) = 96.6

**Test Data:**  
 Cell Pressure (psi) = 5.9  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	17.8	0.345	0.197
0.040	25.2	0.690	0.278
0.060	30.0	1.034	0.329
0.080	36.2	1.379	0.396
0.100	41.8	1.724	0.456
0.120	46.8	2.069	0.508
0.140	51.7	2.414	0.560
0.160	55.3	2.759	0.596
0.180	58.7	3.103	0.631
0.200	61.8	3.448	0.662
0.220	64.2	3.793	0.685
0.240	67.2	4.138	0.714
0.260	68.5	4.483	0.726
0.280	67.5	4.828	0.712
0.300	66.7	5.172	0.701
0.320	66.7	5.517	0.699
0.340	66.2	5.862	0.691
0.360	65.0	6.207	0.676
0.380	64.3	6.552	0.666
0.400	63.7	6.897	0.658
0.420	62.8	7.241	0.646
0.440			
0.460			
0.480			
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Soft dark gray organic clay with peat  
**Boring No.:** LACW-2-2  
**Depth (ft):** 8.5-9.5

**Type of Failure:** Yield @ 10%

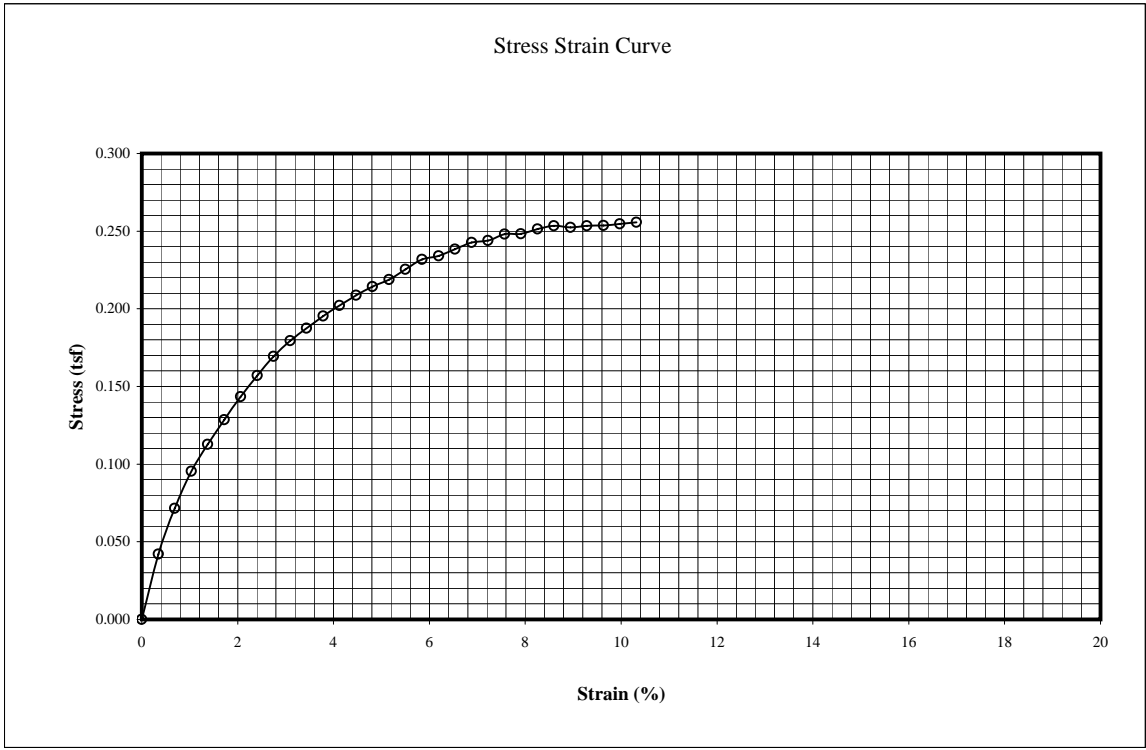
**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 5.8  
 Weight (gm) = 759.7

Wet wt. = 133.17  
 Dry at. = 64.01  
 Moisture Content (%) = 186.97%  
 Can wt. = 27.02

Wet Density (pcf) = 76.7  
 Dry Density (pcf) = 26.7

**Test Data:**  
 Cell Pressure (psi) = 4.3  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	3.8	0.344	0.042
0.040	6.5	0.688	0.072
0.060	8.7	1.032	0.095
0.080	10.3	1.376	0.113
0.100	11.8	1.720	0.129
0.120	13.2	2.064	0.143
0.140	14.5	2.408	0.157
0.160	15.7	2.752	0.169
0.180	16.7	3.096	0.179
0.200	17.5	3.440	0.187
0.220	18.3	3.784	0.195
0.240	19.0	4.128	0.202
0.260	19.7	4.472	0.209
0.280	20.3	4.816	0.214
0.300	20.8	5.160	0.219
0.320	21.5	5.504	0.225
0.340	22.2	5.848	0.232
0.360	22.5	6.192	0.234
0.380	23.0	6.536	0.238
0.400	23.5	6.880	0.243
0.420	23.7	7.224	0.244
0.440	24.2	7.568	0.248
0.460	24.3	7.912	0.248
0.480	24.7	8.256	0.251
0.500	25.0	8.600	0.253
0.520	25.0	8.944	0.252
0.540	25.2	9.288	0.254
0.560	25.3	9.632	0.254
0.580	25.5	9.976	0.255
0.600	25.7	10.320	0.256



6.521451



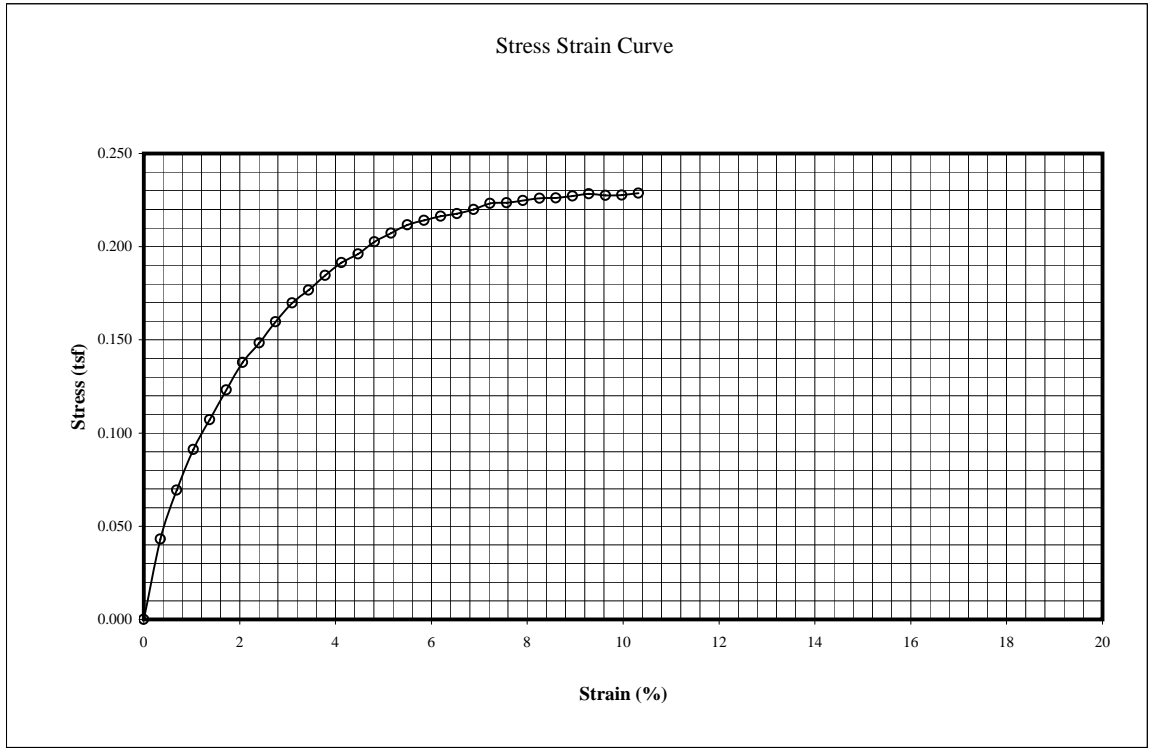
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very Soft dark gray organic clay with peat  
**Boring No.:** LACW-2-2  
**Depth (ft):** 9.5-10.5  
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 764.5  
 Wet wt. = 135  
 Dry at. = 70.05  
 Can wt. = 28.93  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 157.95%  
 Wet Density (pcf) = 77.2  
 Dry Density (pcf) = 29.9  
**Test Data:**  
 Cell Pressure (psi) = 4.3  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	3.9	0.344	0.043
0.040	6.3	0.688	0.069
0.060	8.3	1.032	0.091
0.080	9.8	1.376	0.107
0.100	11.3	1.720	0.123
0.120	12.7	2.064	0.138
0.140	13.7	2.408	0.148
0.160	14.8	2.752	0.160
0.180	15.8	3.096	0.170
0.200	16.5	3.440	0.177
0.220	17.3	3.784	0.185
0.240	18.0	4.128	0.191
0.260	18.5	4.472	0.196
0.280	19.2	4.816	0.203
0.300	19.7	5.160	0.207
0.320	20.2	5.504	0.212
0.340	20.5	5.848	0.214
0.360	20.8	6.192	0.216
0.380	21.0	6.536	0.218
0.400	21.3	6.880	0.220
0.420	21.7	7.224	0.223
0.440	21.8	7.568	0.223
0.460	22.0	7.912	0.225
0.480	22.2	8.256	0.226
0.500	22.3	8.600	0.226
0.520	22.5	8.944	0.227
0.540	22.7	9.288	0.228
0.560	22.7	9.632	0.228
0.580	22.8	9.976	0.228
0.600	23.0	10.320	0.229



6.521451

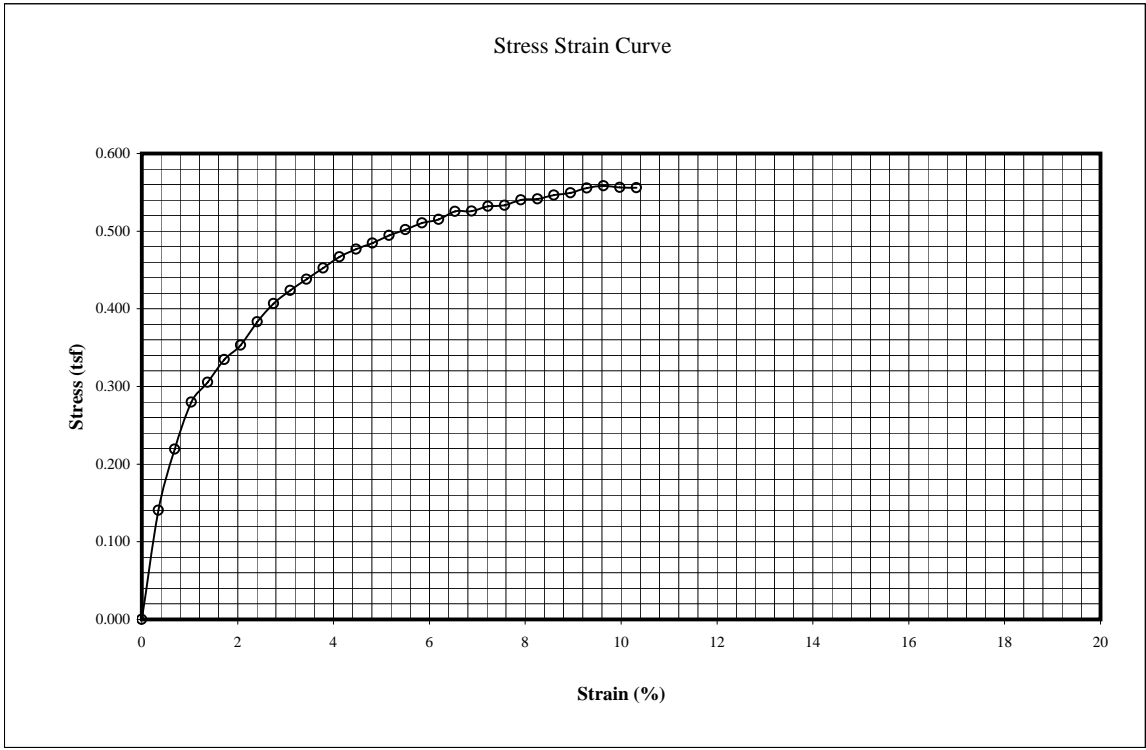
### UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium dark gray organic clay alt. Layers of sand silt & clay  
**Boring No.:** LACW-3-4  
**Depth (ft):** 10-12  
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 5.8  
 Weight (gm) = 1120.8  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 48.11%  
 Wet Density (pcf) = 113.1  
 Dry Density (pcf) = 76.4  
**Wet wt.** = 205  
**Dry wt.** = 145.69  
**Can wt.** = 22.42  
**Test Data:**  
 Cell Pressure (psi) = 6.5  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	12.7	0.344	0.140
0.040	19.9	0.688	0.219
0.060	25.5	1.032	0.280
0.080	27.9	1.376	0.305
0.100	30.7	1.720	0.335
0.120	32.5	2.064	0.353
0.140	35.4	2.408	0.383
0.160	37.7	2.752	0.407
0.180	39.4	3.096	0.423
0.200	40.9	3.440	0.438
0.220	42.4	3.784	0.452
0.240	43.9	4.128	0.467
0.260	45.0	4.472	0.477
0.280	45.9	4.816	0.485
0.300	47.0	5.160	0.494
0.320	47.9	5.504	0.502
0.340	48.9	5.848	0.511
0.360	49.5	6.192	0.515
0.380	50.7	6.536	0.526
0.400	50.9	6.880	0.526
0.420	51.7	7.224	0.532
0.440	52.0	7.568	0.533
0.460	52.9	7.912	0.540
0.480	53.2	8.256	0.541
0.500	53.9	8.600	0.546
0.520	54.4	8.944	0.549
0.540	55.2	9.288	0.555
0.560	55.7	9.632	0.558
0.580	55.7	9.976	0.556
0.600	55.9	10.320	0.556



6.521451

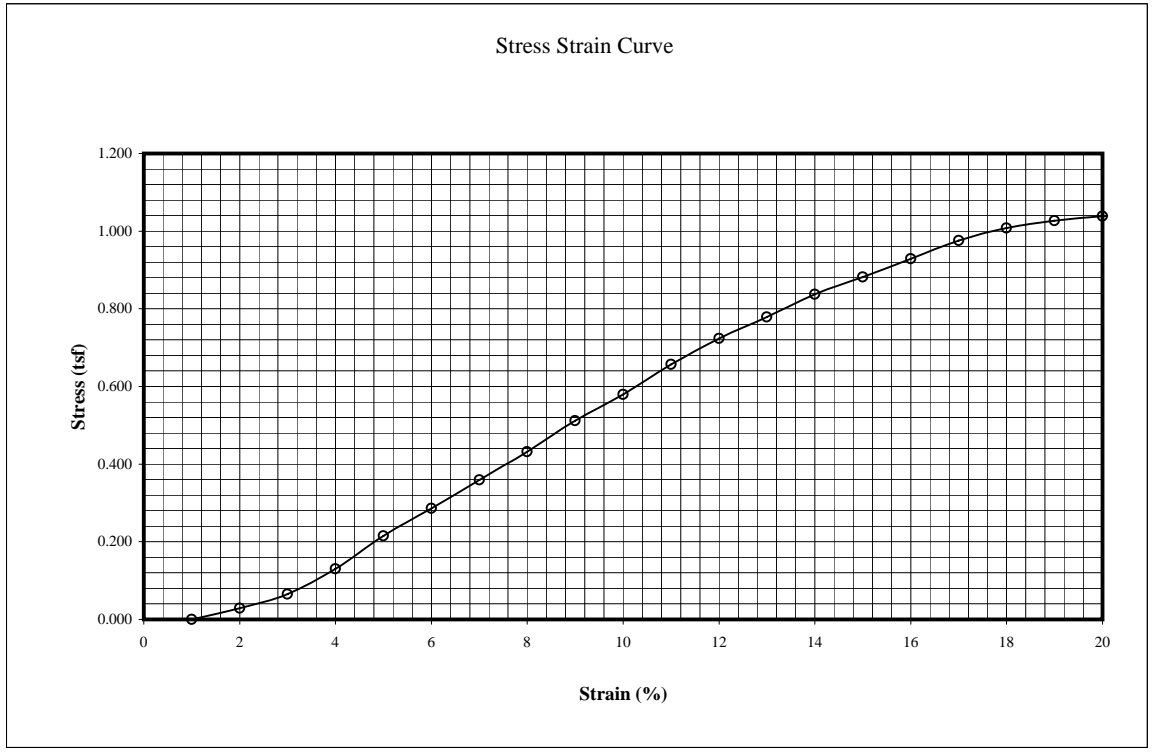
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Stiff dark gray organic w/roots  
**Boring No.:** LACW-4-1  
**Depth (ft):** 3.5-4.5  
**Type of Failure:** Vertical @ 9%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 4.6  
 Weight (gm) = 790.1  
 Wet wt. = 145.27  
 Dry at. = 105.17  
 Can wt. = 28.52  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 52.32%  
 Wet Density (pcf) = 101.7  
 Dry Density (pcf) = 66.7  
**Test Data:**  
 Cell Pressure (psi) =  
 Height Correction = 0.978  
 Proving Ring No. = 9839  
 0.337

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	8	0.439	0.029
0.040	18	0.877	0.065
0.060	36	1.316	0.130
0.080	60	1.754	0.215
0.100	80	2.193	0.286
0.120	101	2.632	0.359
0.140	122	3.070	0.432
0.160	145	3.509	0.511
0.180	165	3.947	0.579
0.200	188	4.386	0.657
0.220	208	4.825	0.724
0.240	225	5.263	0.779
0.260	243	5.702	0.838
0.280	257	6.140	0.882
0.300	272	6.579	0.929
0.320	287	7.018	0.975
0.340	298	7.456	1.008
0.360	305	7.895	1.027
0.380	310	8.333	1.039
0.400	314	8.772	1.047
0.420	314	9.211	1.042
0.440			
0.460			
0.480			
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



2.197729

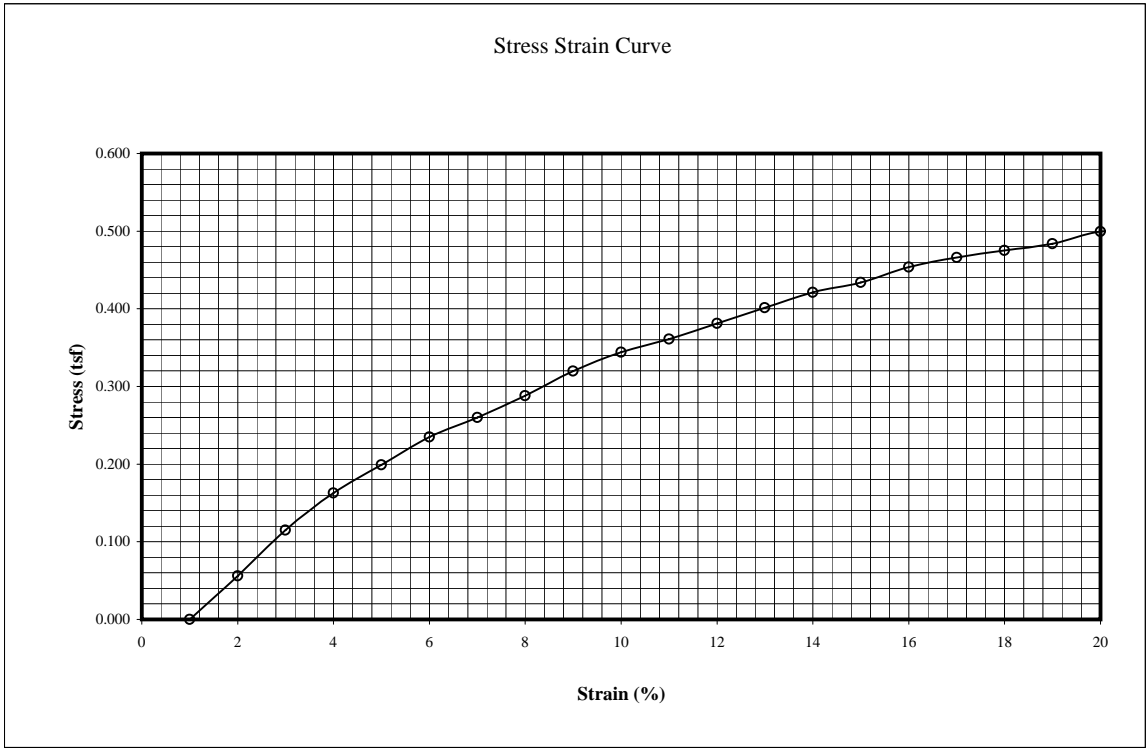
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium gray organic clay w/wood & peat      **Type of Failure:** Vertical @ 7%  
**Boring No.:** LACW-4-3  
**Depth (ft):** 7.5-8.5

**Sample Data:**      **Test Data:**  
Diameter (in.) = 2.875      Wet wt. = 134.15  
Height (in.) = 5.8      Area (in<sup>2</sup>) = 6.492      Dry at. = 78.49      Cell Pressure (psi) =  
Moisture Content (%) = 109.93%      Can wt. = 27.86      Height Correction = 1.000  
Weight (gm) = 858.9      Wet Density (pcf) = 86.7      Proving Ring No. = 9839  
Dry Density (pcf) = 41.3      **0.337**

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	15	0.344	0.056
0.040	31	0.688	0.115
0.060	44	1.032	0.163
0.080	54	1.376	0.199
0.100	64	1.720	0.235
0.120	71	2.064	0.260
0.140	79	2.408	0.288
0.160	88	2.752	0.320
0.180	95	3.096	0.344
0.200	100	3.440	0.361
0.220	106	3.784	0.381
0.240	112	4.128	0.401
0.260	118	4.472	0.421
0.280	122	4.816	0.434
0.300	128	5.160	0.454
0.320	132	5.504	0.466
0.340	135	5.848	0.475
0.360	138	6.192	0.484
0.380	143	6.536	0.500
0.400	143	6.880	0.498
0.420	143	7.224	0.496
0.440			
0.460			
0.480			
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



2.197729

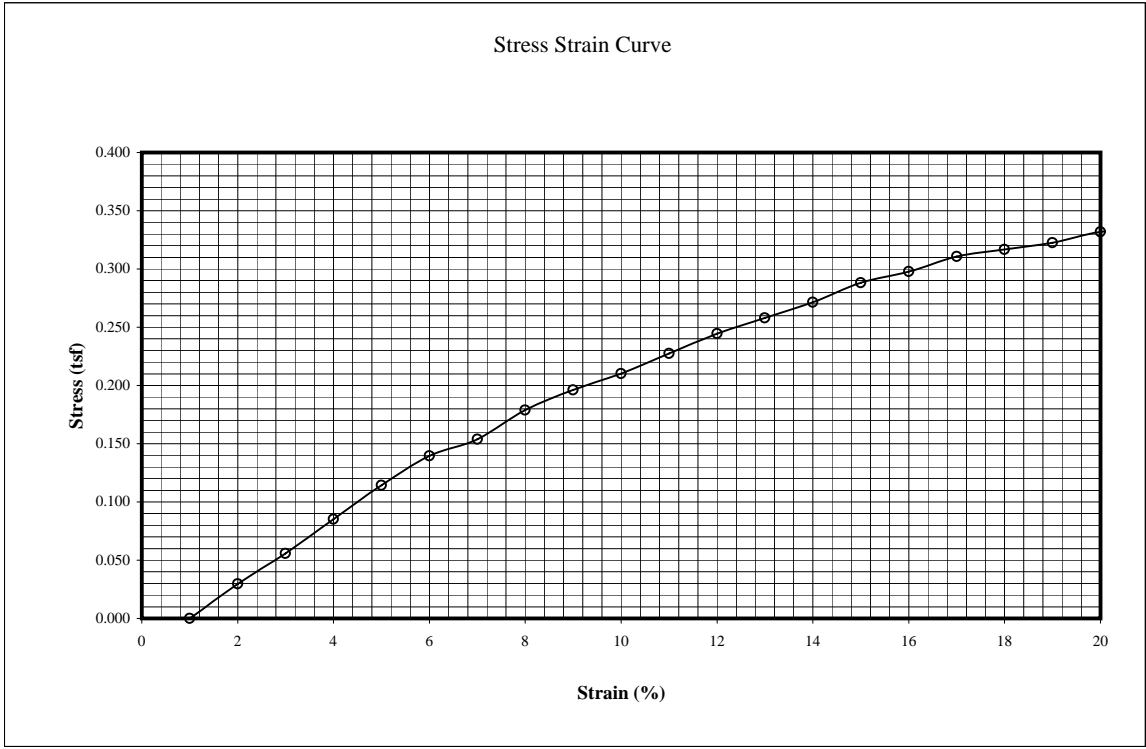
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Soft gray clay with peat & wood  
**Boring No.:** LACW-4-3  
**Depth (ft):** 8.5-9.5  
**Type of Failure:** Vertical @ 8%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 836.6  
 Wet wt. = 105.4  
 Dry at. = 59.13  
 Can wt. = 22.14  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 125.09%  
 Wet Density (pcf) = 84.4  
 Dry Density (pcf) = 37.5  
**Test Data:**  
 Cell Pressure (psi) =  
 Height Correction = 1.000  
 Proving Ring No. = 9839  
 0.337

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	8	0.344	0.030
0.040	15	0.688	0.056
0.060	23	1.032	0.085
0.080	31	1.376	0.114
0.100	38	1.720	0.140
0.120	42	2.064	0.154
0.140	49	2.408	0.179
0.160	54	2.752	0.196
0.180	58	3.096	0.210
0.200	63	3.440	0.227
0.220	68	3.784	0.245
0.240	72	4.128	0.258
0.260	76	4.472	0.271
0.280	81	4.816	0.288
0.300	84	5.160	0.298
0.320	88	5.504	0.311
0.340	90	5.848	0.317
0.360	92	6.192	0.323
0.380	95	6.536	0.332
0.400	96	6.880	0.334
0.420	97	7.224	0.336
0.440	98	7.568	0.339
0.460	98	7.912	0.337
0.480	98	8.256	0.336
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



2.197729

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium gray clay w/fine sand at bottom      **Type of Failure:** Yield @ 10%

**Boring No.:** LACS-1-3

**Sample Data:**

Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1030.8

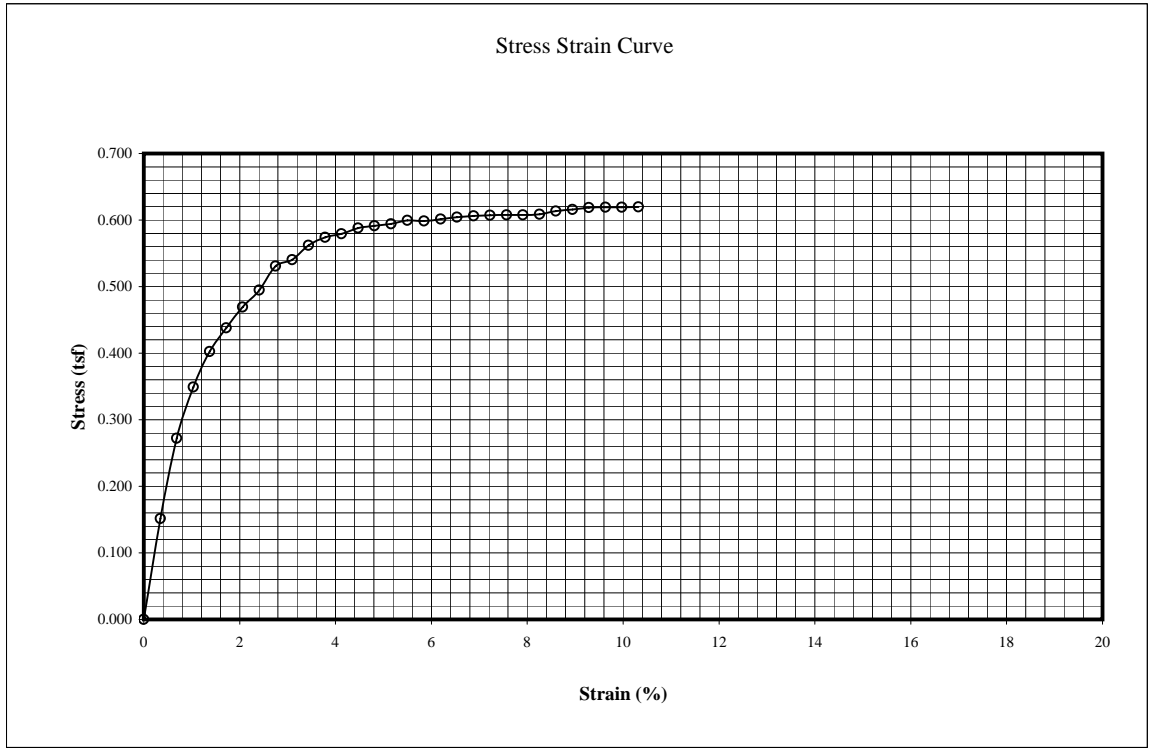
Wet wt. = 223.35

Area (in<sup>2</sup>) = 6.492      Dry wt. = 174.08  
 Moisture Content (%) = 32.46%      Can wt. = 22.3

**Test Data:**

Cell Pressure (psi) = 4.2  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	13.7	0.344	0.151
0.040	24.7	0.688	0.272
0.060	31.8	1.032	0.349
0.080	36.8	1.376	0.403
0.100	40.2	1.720	0.438
0.120	43.2	2.064	0.469
0.140	45.7	2.408	0.495
0.160	49.2	2.752	0.531
0.180	50.3	3.096	0.541
0.200	52.5	3.440	0.562
0.220	53.8	3.784	0.574
0.240	54.5	4.128	0.580
0.260	55.5	4.472	0.588
0.280	56.0	4.816	0.591
0.300	56.5	5.160	0.594
0.320	57.2	5.504	0.599
0.340	57.3	5.848	0.598
0.360	57.8	6.192	0.601
0.380	58.3	6.536	0.604
0.400	58.7	6.880	0.606
0.420	59.0	7.224	0.607
0.440	59.3	7.568	0.608
0.460	59.5	7.912	0.608
0.480	59.8	8.256	0.608
0.500	60.5	8.600	0.613
0.520	61.0	8.944	0.616
0.540	61.5	9.288	0.619
0.560	61.8	9.632	0.619
0.580	62.0	9.976	0.619
0.600	62.3	10.320	0.620



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Stiff gray clay  
**Boring No.:** LACS-3-1  
**Depth (ft):** 5-7

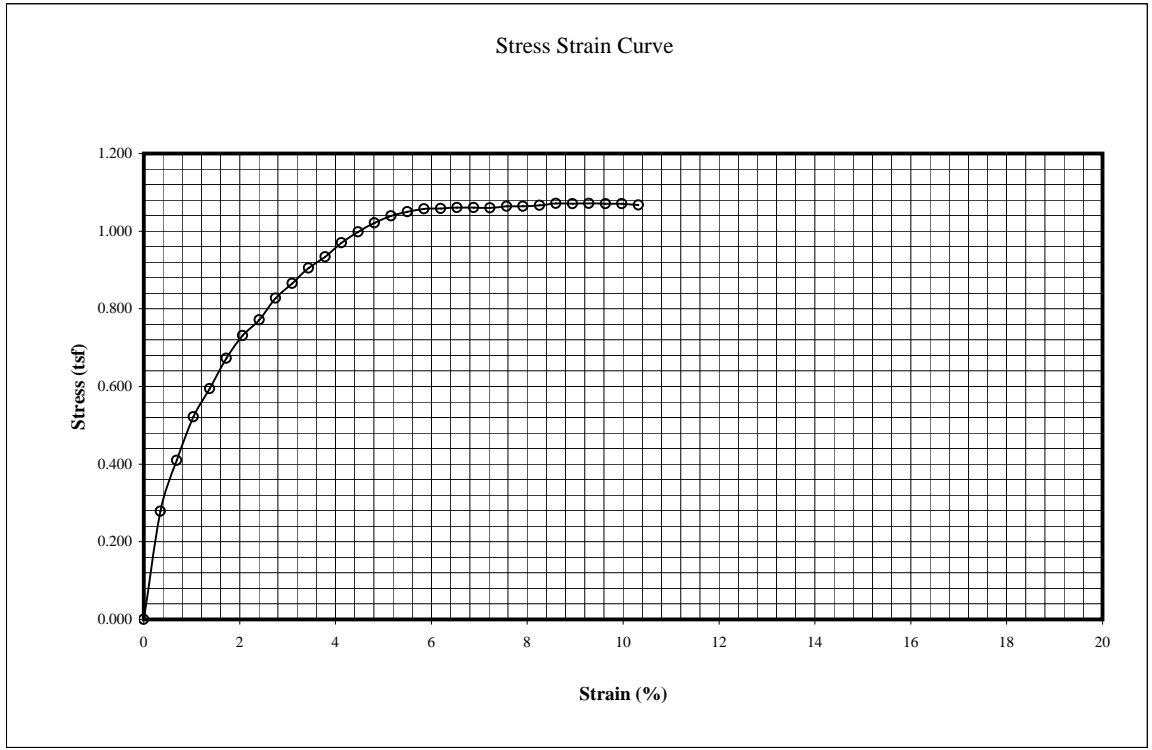
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1160.0

Wet wt. = 218.55  
 Dry wt. = 177.01  
 Moisture Content (%) = 28.06%  
 Can wt. = 28.96  
 Wet Density (pcf) = 117.1  
 Dry Density (pcf) = 91.4

**Test Data:**  
 Cell Pressure (psi) = 3.5  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	25.2	0.344	0.279
0.040	37.2	0.688	0.410
0.060	47.5	1.032	0.521
0.080	54.3	1.376	0.594
0.100	61.7	1.720	0.673
0.120	67.3	2.064	0.731
0.140	71.3	2.408	0.772
0.160	76.7	2.752	0.827
0.180	80.5	3.096	0.865
0.200	84.5	3.440	0.905
0.220	87.5	3.784	0.934
0.240	91.2	4.128	0.970
0.260	94.2	4.472	0.998
0.280	96.7	4.816	1.021
0.300	98.8	5.160	1.039
0.320	100.2	5.504	1.050
0.340	101.3	5.848	1.058
0.360	101.7	6.192	1.058
0.380	102.3	6.536	1.060
0.400	102.7	6.880	1.061
0.420	103.0	7.224	1.060
0.440	103.8	7.568	1.064
0.460	104.2	7.912	1.064
0.480	104.8	8.256	1.066
0.500	105.7	8.600	1.071
0.520	106.0	8.944	1.070
0.540	106.5	9.288	1.071
0.560	106.8	9.632	1.070
0.580	107.2	9.976	1.070
0.600	107.3	10.320	1.067



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Soft gray caly  
**Boring No.:** LACS-3-2  
**Depth (ft):** 7.5-9.5

**Type of Failure:** Bulge @ 8%

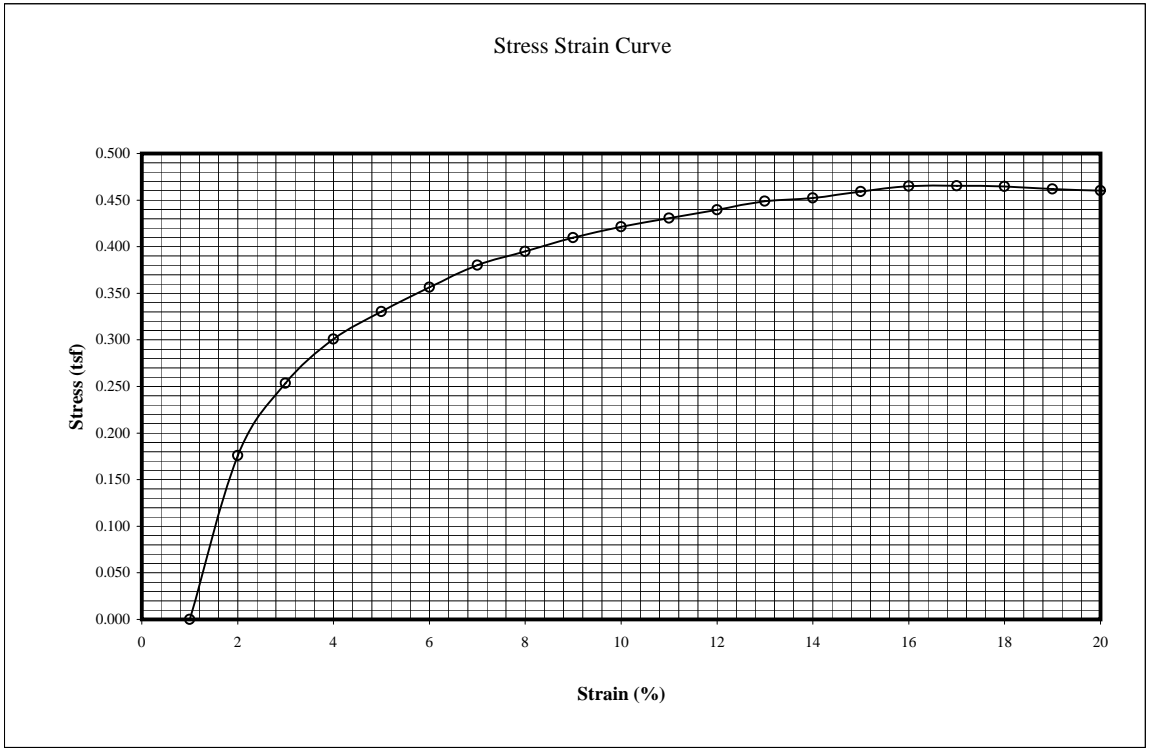
**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 984.9

Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 50.25%  
 Wet Density (pcf) = 99.4  
 Dry Density (pcf) = 66.2

Wet wt. = 224.64  
 Dry wt. = 158.43  
 Can wt. = 26.67

**Test Data:**  
 Cell Pressure (psi) = 5.0  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	15.9	0.344	0.176
0.040	23.0	0.688	0.253
0.060	27.4	1.032	0.301
0.080	30.2	1.376	0.330
0.100	32.7	1.720	0.356
0.120	35.0	2.064	0.380
0.140	36.5	2.408	0.395
0.160	38.0	2.752	0.410
0.180	39.2	3.096	0.421
0.200	40.2	3.440	0.431
0.220	41.2	3.784	0.440
0.240	42.2	4.128	0.449
0.260	42.7	4.472	0.452
0.280	43.5	4.816	0.459
0.300	44.2	5.160	0.465
0.320	44.4	5.504	0.465
0.340	44.5	5.848	0.465
0.360	44.4	6.192	0.462
0.380	44.4	6.536	0.460
0.400	44.4	6.880	0.459
0.420	44.4	7.224	0.457
0.440	44.0	7.568	0.451
0.460	43.5	7.912	0.444
0.480	43.2	8.256	0.440
0.500			
0.520			
0.540			
0.560			
0.580			
0.600			



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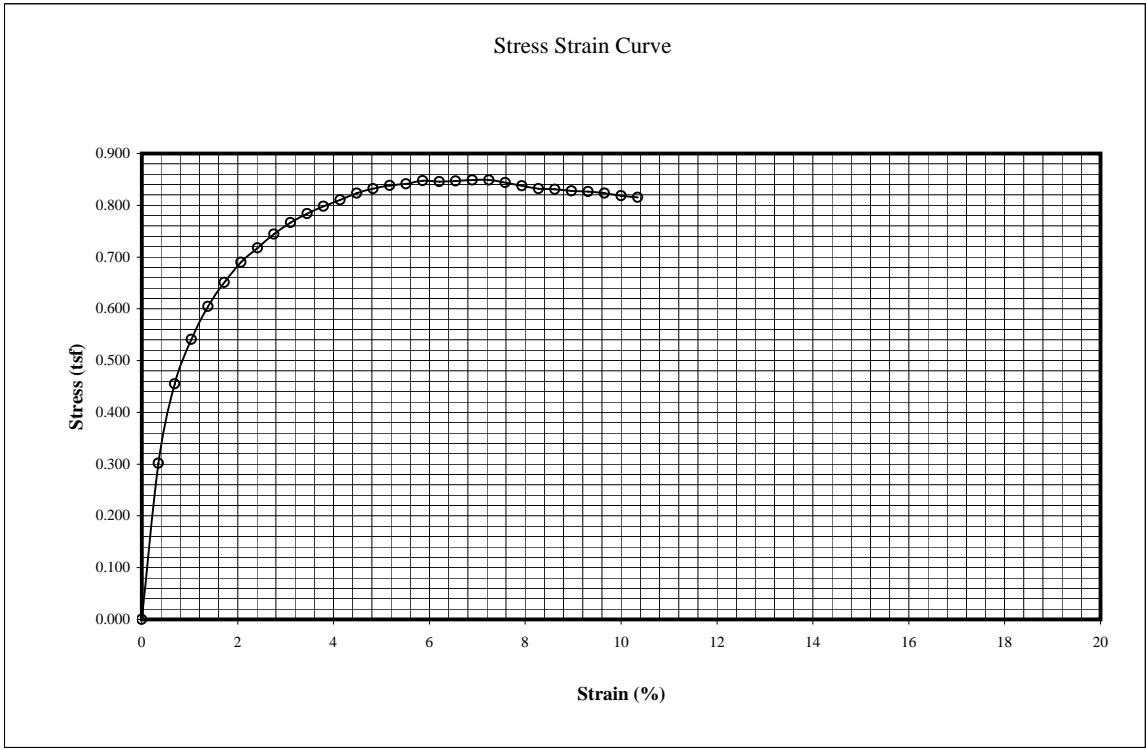
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Medium gray clay  
**Boring No.:** IHNCS-1-1  
**Depth (ft):** 7.5-9.5  
 Type of Failure: Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1009.3  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 62.77%  
 Wet Density (pcf) = 102.1  
 Dry Density (pcf) = 62.7  
**Test Data:**  
 Wet wt. = 98.15  
 Dry at. = 70.36  
 Can wt. = 26.09  
 Cell Pressure (psi) = 4.0  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	27.3	0.345	0.302
0.040	41.3	0.690	0.455
0.060	49.3	1.034	0.541
0.080	55.3	1.379	0.605
0.100	59.7	1.724	0.651
0.120	63.5	2.069	0.690
0.140	66.3	2.414	0.718
0.160	69.0	2.759	0.744
0.180	71.3	3.103	0.766
0.200	73.2	3.448	0.784
0.220	74.8	3.793	0.798
0.240	76.2	4.138	0.810
0.260	77.7	4.483	0.823
0.280	78.8	4.828	0.832
0.300	79.7	5.172	0.838
0.320	80.3	5.517	0.841
0.340	81.2	5.862	0.848
0.360	81.3	6.207	0.846
0.380	81.7	6.552	0.847
0.400	82.2	6.897	0.849
0.420	82.5	7.241	0.849
0.440	82.3	7.586	0.843
0.460	82.0	7.931	0.837
0.480	81.8	8.276	0.832
0.500	82.0	8.621	0.831
0.520	82.0	8.966	0.828
0.540	82.2	9.310	0.827
0.560	82.2	9.655	0.824
0.580	82.0	10.000	0.818
0.600	82.0	10.345	0.815



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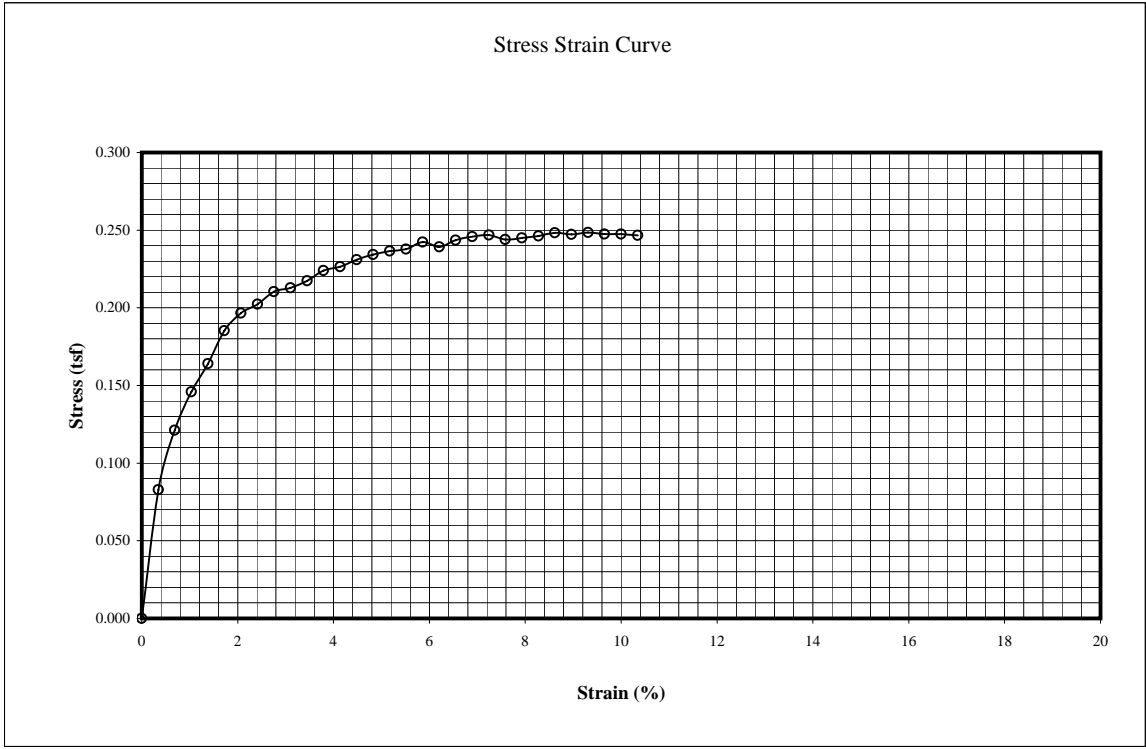
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Soft gray clay w/wood  
**Boring No.:** IHNCS-1-3  
**Depth (ft):** 12-13  
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 5.8  
 Weight (gm) = 890.0  
 Wet wt. = 124.85  
 Dry at. = 74.21  
 Can wt. = 20.87  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 94.94%  
 Wet Density (pcf) = 90.0  
 Dry Density (pcf) = 46.2  
**Test Data:**  
 Cell Pressure (psi) = 7.4  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	7.5	0.345	0.083
0.040	11.0	0.690	0.121
0.060	13.3	1.034	0.146
0.080	15.0	1.379	0.164
0.100	17.0	1.724	0.185
0.120	18.1	2.069	0.197
0.140	18.7	2.414	0.202
0.160	19.5	2.759	0.210
0.180	19.8	3.103	0.213
0.200	20.3	3.448	0.217
0.220	21.0	3.793	0.224
0.240	21.3	4.138	0.226
0.260	21.8	4.483	0.231
0.280	22.2	4.828	0.234
0.300	22.5	5.172	0.237
0.320	22.7	5.517	0.238
0.340	23.2	5.862	0.242
0.360	23.0	6.207	0.239
0.380	23.5	6.552	0.244
0.400	23.8	6.897	0.246
0.420	24.0	7.241	0.247
0.440	23.8	7.586	0.244
0.460	24.0	7.931	0.245
0.480	24.2	8.276	0.246
0.500	24.5	8.621	0.248
0.520	24.5	8.966	0.247
0.540	24.7	9.310	0.248
0.560	24.7	9.655	0.247
0.580	24.8	10.000	0.248
0.600	24.8	10.345	0.247



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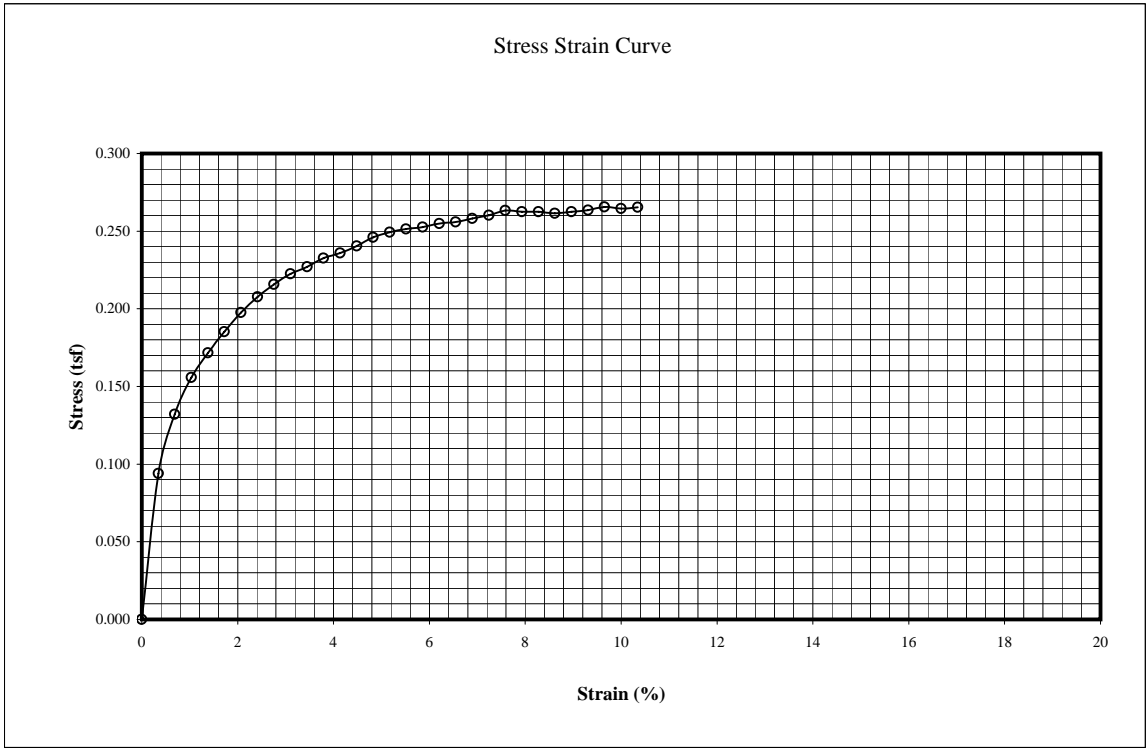
### UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Soft gray clay w/wood  
**Boring No.:** IHNCS-1-3  
**Depth (ft):** 13-14  
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 847.5  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 94.48%  
 Wet Density (pcf) = 85.7  
 Dry Density (pcf) = 44.1  
**Test Data:**  
 Wet wt. = 130.39  
 Dry wt. = 77.82  
 Can wt. = 22.18  
 Cell Pressure (psi) = 8.0  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	8.5	0.345	0.094
0.040	12.0	0.690	0.132
0.060	14.2	1.034	0.156
0.080	15.7	1.379	0.172
0.100	17.0	1.724	0.185
0.120	18.2	2.069	0.198
0.140	19.2	2.414	0.208
0.160	20.0	2.759	0.216
0.180	20.7	3.103	0.222
0.200	21.2	3.448	0.227
0.220	21.8	3.793	0.233
0.240	22.2	4.138	0.236
0.260	22.7	4.483	0.240
0.280	23.3	4.828	0.246
0.300	23.7	5.172	0.249
0.320	24.0	5.517	0.251
0.340	24.2	5.862	0.253
0.360	24.5	6.207	0.255
0.380	24.7	6.552	0.256
0.400	25.0	6.897	0.258
0.420	25.3	7.241	0.260
0.440	25.7	7.586	0.263
0.460	25.7	7.931	0.262
0.480	25.8	8.276	0.262
0.500	25.8	8.621	0.261
0.520	26.0	8.966	0.262
0.540	26.2	9.310	0.264
0.560	26.5	9.655	0.266
0.580	26.5	10.000	0.264
0.600	26.7	10.345	0.265



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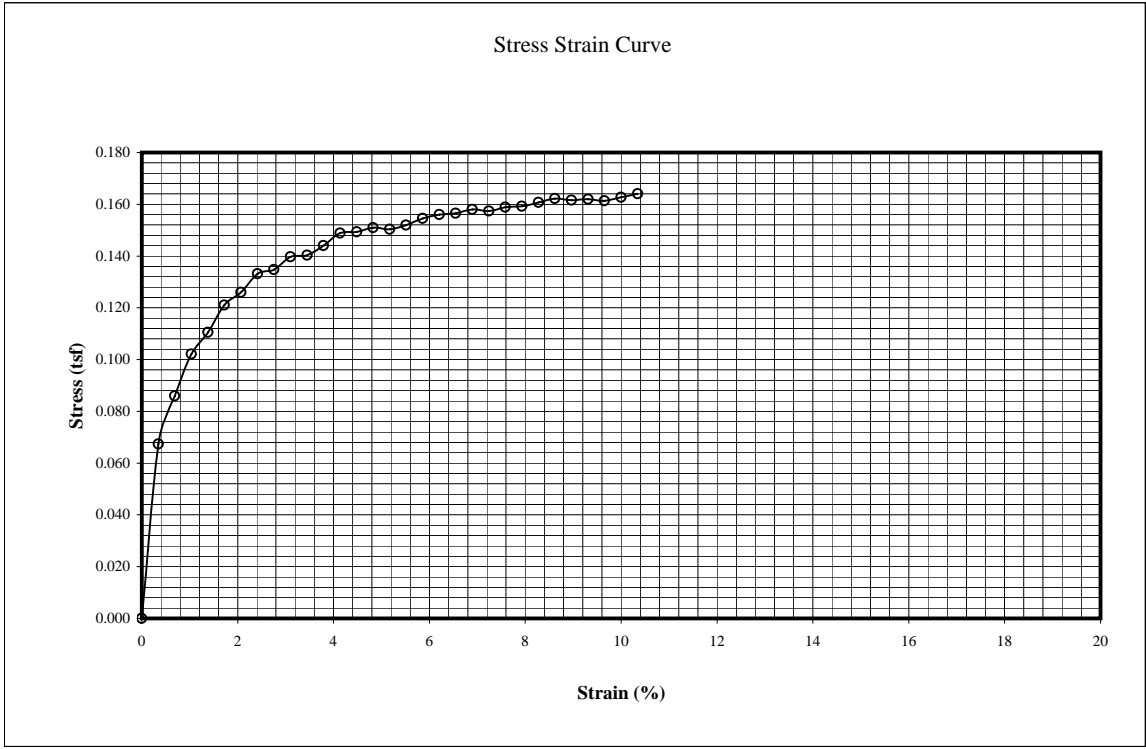
**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray clay w/peat  
**Boring No.:** IHNCS-3-2  
**Depth (ft):** 11.5-12.5  
 Type of Failure: Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in.) = 5.8  
 Weight (gm) = 950.1  
 Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 78.30%  
 Wet Density (pcf) = 96.1  
 Dry Density (pcf) = 53.9  
**Test Data:**  
 Wet wt. = 136.01  
 Dry wt. = 85.46  
 Can wt. = 20.9  
 Cell Pressure (psi) = 7.1  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	6.1	0.345	0.067
0.040	7.8	0.690	0.086
0.060	9.3	1.034	0.102
0.080	10.1	1.379	0.110
0.100	11.1	1.724	0.121
0.120	11.6	2.069	0.126
0.140	12.3	2.414	0.133
0.160	12.5	2.759	0.135
0.180	13.0	3.103	0.140
0.200	13.1	3.448	0.140
0.220	13.5	3.793	0.144
0.240	14.0	4.138	0.149
0.260	14.1	4.483	0.149
0.280	14.3	4.828	0.151
0.300	14.3	5.172	0.150
0.320	14.5	5.517	0.152
0.340	14.8	5.862	0.155
0.360	15.0	6.207	0.156
0.380	15.1	6.552	0.156
0.400	15.3	6.897	0.158
0.420	15.3	7.241	0.157
0.440	15.5	7.586	0.159
0.460	15.6	7.931	0.159
0.480	15.8	8.276	0.161
0.500	16.0	8.621	0.162
0.520	16.0	8.966	0.162
0.540	16.1	9.310	0.162
0.560	16.1	9.655	0.161
0.580	16.3	10.000	0.163
0.600	16.5	10.345	0.164



6.521451

**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material :** Very soft gray clay  
**Boring No.:** IHNCS-3-2  
**Depth (ft):** 12.5-13.5

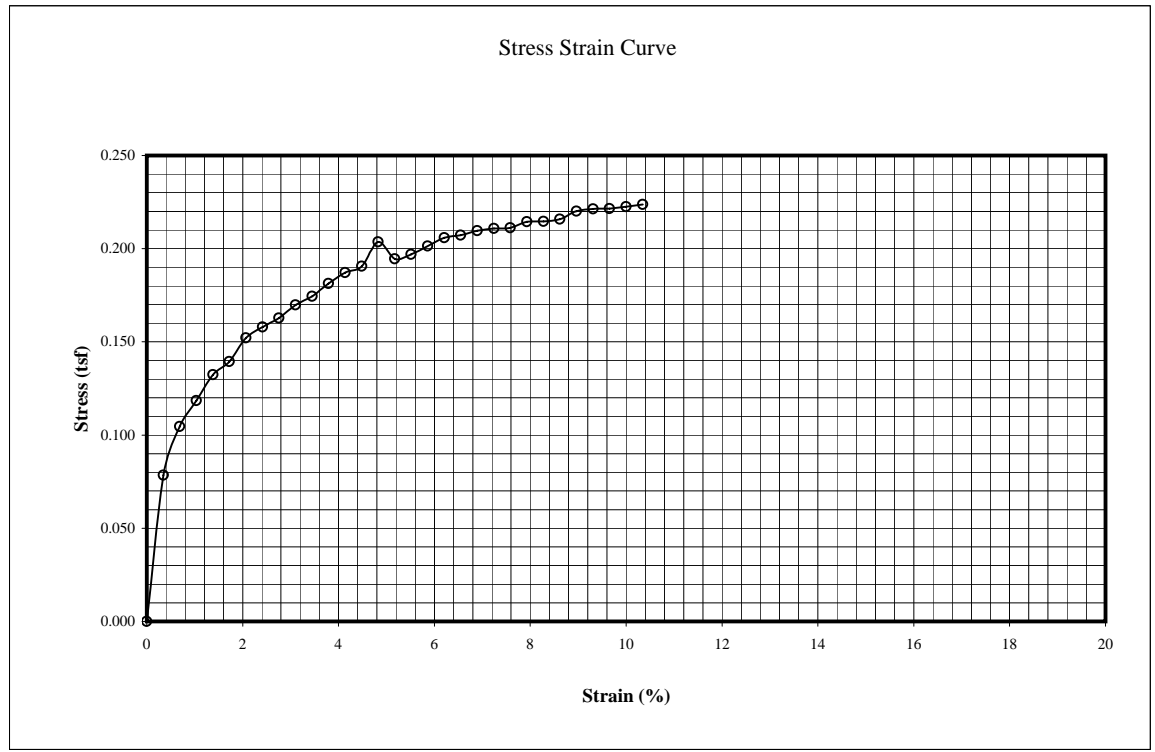
**Type of Failure:** Yield @ 10%

**Sample Data:**  
 Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 1001.6

Wet wt. = 133.27  
 Dry at. = 95.32  
 Moisture Content (%) = 57.18%  
 Can wt. = 28.95  
 Wet Density (pcf) = 101.3  
 Dry Density (pcf) = 64.5

**Test Data:**  
 Cell Pressure (psi) = 7.7  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	7.1	0.345	0.078
0.040	9.5	0.690	0.105
0.060	10.8	1.034	0.119
0.080	12.1	1.379	0.132
0.100	12.8	1.724	0.140
0.120	14.0	2.069	0.152
0.140	14.6	2.414	0.158
0.160	15.1	2.759	0.163
0.180	15.8	3.103	0.170
0.200	16.3	3.448	0.175
0.220	17.0	3.793	0.181
0.240	17.6	4.138	0.187
0.260	18.0	4.483	0.191
0.280	19.3	4.828	0.204
0.300	18.5	5.172	0.195
0.320	18.8	5.517	0.197
0.340	19.3	5.862	0.201
0.360	19.8	6.207	0.206
0.380	20.0	6.552	0.207
0.400	20.3	6.897	0.210
0.420	20.5	7.241	0.211
0.440	20.6	7.586	0.211
0.460	21.0	7.931	0.214
0.480	21.1	8.276	0.215
0.500	21.3	8.621	0.216
0.520	21.8	8.966	0.220
0.540	22.0	9.310	0.221
0.560	22.1	9.655	0.221
0.580	22.3	10.000	0.223
0.600	22.5	10.345	0.224



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**UNCONFINED COMPRESSION TEST/UNCONSOLIDATED UNDRAINED TRIAXIAL TEST**

**Project Name:** Levee Study  
**File No.:** 06-1004

**Material:** Very soft gray & dark gray clay w/peat      **Type of Failure:** Yield @ 10%

**Boring No.:** IHNCN-1-3

**Sample Data:**

Diameter (in.) = 2.875  
 Height (in) = 5.8  
 Weight (gm) = 962.5

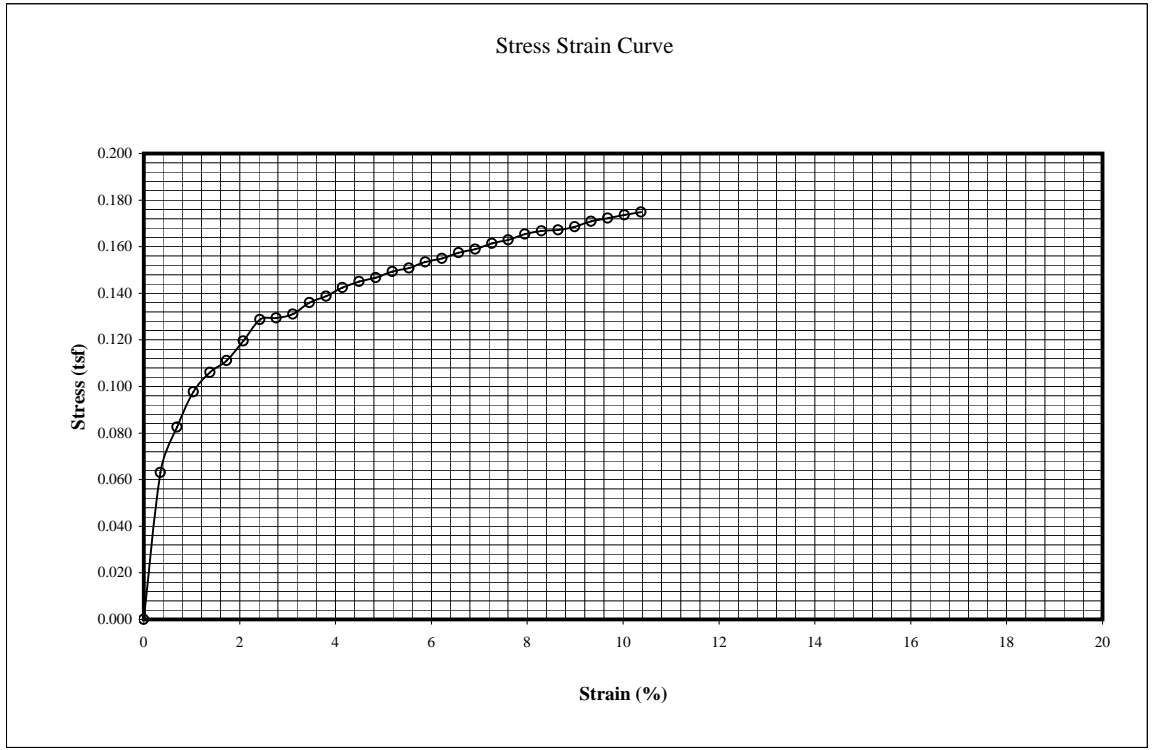
Area (in<sup>2</sup>) = 6.492  
 Moisture Content (%) = 67.92%  
 Wet Density (pcf) = 97.6  
 Dry Density (pcf) = 58.1

Wet wt. = 182.11  
 Dry wt. = 119.39  
 Can wt. = 27.05

**Test Data:**

Cell Pressure (psi) = 6.5  
 Height Correction = 1.000  
 Proving Ring No. = 2011  
 1

TEST DATA			
Strain Dial	Strength Dial	Strain (%)	Stress (tsf)
0.000	0	0.000	0.000
0.020	5.7	0.346	0.063
0.040	7.5	0.691	0.083
0.060	8.9	1.037	0.098
0.080	9.7	1.383	0.106
0.100	10.2	1.729	0.111
0.120	11.0	2.074	0.119
0.140	11.9	2.420	0.129
0.160	12.0	2.766	0.129
0.180	12.2	3.111	0.131
0.200	12.7	3.457	0.136
0.220	13.0	3.803	0.139
0.240	13.4	4.149	0.142
0.260	13.7	4.494	0.145
0.280	13.9	4.840	0.147
0.300	14.2	5.186	0.149
0.320	14.4	5.532	0.151
0.340	14.7	5.877	0.153
0.360	14.9	6.223	0.155
0.380	15.2	6.569	0.157
0.400	15.4	6.914	0.159
0.420	15.7	7.260	0.161
0.440	15.9	7.606	0.163
0.460	16.2	7.952	0.165
0.480	16.4	8.297	0.167
0.500	16.5	8.643	0.167
0.520	16.7	8.989	0.169
0.540	17.0	9.334	0.171
0.560	17.2	9.680	0.172
0.580	17.4	10.026	0.174
0.600	17.6	10.372	0.175



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