Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-72

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)	
1	0 - 2	3.75		Sandy Clay,w/roots,Very stiff,Gray	C L	13.2												
2	2 - 4	1.50		Sandy Clay,w/ferrous nodules,Stiff,Gray	C L	16.8	103.3	120.6										
3	4 - 6	4.25		Sandy Clay,w/calcareous&ferrous nodules, Hard,Gray	C L	16.6												
4	6 - 8	1.75		Sandy Clay,w/calcareous&ferrous nodules, Stiff,Gray & Yellowish gray	C L													
5	8 - 10	1.75		Sandy Clay,w/calcareous&ferrous nodules, Stiff,Gray & Yellowish gray	C L	15.6	110.5	127.8	28.0	14.0	99.6	99.2	99.0	90.2	66.1		1.48	5
6	10 - 12	4.00		Clay,w/calcareous nod & fer stains,Very stiff, Gray & Brown	C H	19.2												
7	12 - 14	4.5+		Clay,w/calcareous nod & fer stains,Hard, Gray & Brown	C H	12.2												
8	14 - 16	4.25		Clay,w/calcareous nod & fer stains,slks, Hard,Gray & Brown	C H													
9	16 - 18	4.25		Clay,w/calcareous nod & fer stains,slks, Hard,Gray & Brown	C H	27.4												
10	18 - 20	4.25		Clay,w/calcareous nod & fer stains,slks, Hard,Gray & Brown	C H	22.0	96.0	117.1	62.0	23.0	99.3	98.2	97.7	97.6	97.2		4.22	1
11	20 - 22	2.25		Clay,Very stiff,Red & Gray	C H	24.7												
12	22 - 24	2.00		Clay,Very stiff,Red & Gray	C H	24.9												
13	24 - 26	4.5+		Clay,slks,Hard,Red & Gray	C H	19.5												
14	26 - 28	4.50		Clay,slks,Hard,Red & Gray	C H	19.2												
15	28 - 30	4.50		Clay,slks,Hard,Red & Gray	C H	27.0	93.4	118.6	64.0	23.0	100.0	100.0	99.7	99.2	98.7		3.42	2
16	30 - 32	4.5+		Clay,w/calcareous nodules,slks,Hard, Red & Gray	C H	23.4												
17	32 - 34	4.5+		Clay,w/calcareous nodules,slks,Hard, Red & Gray	C H	19.6												
18	34 - 36	4.5+		Clay,w/calcareous nodules,slks,Hard, Red & Gray	C H	25.4												
19	36 - 38	4.5+		Clay,w/calcareous nodules,slks,Hard, Red & Gray	C H	22.4												
20	38 - 40	4.5+		Clay,w/calcareous nodules,slks,Hard, Red & Gray	C H	23.8												

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classifcation, M c : Moisture Content
q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

Project: Greens Bayou

SU Y OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-73

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
21	40-42	4.5+		Clay,w/silt poc,Hard,Red & Gray	C H	18.8											
22	42-44	3.00		Sandy Clay,Very stiff,Yellowish gray	C L	16.8											
23	44-46	4.00		Sandy Clay,w/calc nod,Very stiff,Yellowish gray	C L	16.4											
24	46-48	4.5+		Sandy Clay,w/calc nod,Hard,Yellowish gray	C L	16.0											
25	48-50	4.5+		Clay,w/fer nod,Hard,Gray & Brown	C H	17.0											

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q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-74

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)	
1	0 - 2	4.5+		Sandy Clay,w/roots,Hard,Gray	C L	13.0												
2	2 - 4	4.5+		Sandy Clay,Hard,Gray	C L	8.1												
3	4 - 6	4.5+		Sandy Clay,Hard,Gray	C L	4.9												
4	6 - 8	3.75		Sandy Clay,w/fer nod,Very stiff,Yellowish Gray	C L	12.9	110.5	124.8	41.0	18.0	100.0	99.5	99.3	88.3	63.1		2.36	12
5	8 - 10	4.25		Sandy Clay,w/fer nod,Hard,Yellowish Gray	C L	13.5												
6	10 - 12	4.25		Sandy Clay,w/fer nod,Hard,Yellowish Gray	C L	15.4												
7	12 - 14	3.50		Sandy Clay,Very stiff,Yellowish gray	C L	19.7												
8	14 - 16	4.5+		Clay,w/sand seams,Hard,Gray & Red	C H	23.4												
9	16 - 18	4.25		Clay,w/sand seams & sand poc,Hard,Red & Gray	C H	22.2												
10	18 - 20	4.25		Clay,w/sand seams,Hard,Gray & Red	C H	24.5	96.3	119.8	81.0	31.0	100.0	99.6	98.9	98.3	96.7		4.08	13
11	20 - 22	3.25		Clay,w/sand seams,Very stiff,Red & Gray	C H	26.8												
12	22 - 24	1.00		Silty Clay,Stiff,Red & Gray	C L	27.6	94.2	120.3	32.0	17.0	100.0	100.0	99.9	98.3	93.9		1.09	
13A	24-25	1.00		Silty Clay,Stiff,Red & Gray	C L	37.3												
13	25-26	4.5+		Clay,slks,Hard,Red & Gray	C H	30.3												
14	26-28	4.5+		Clay,slks,Hard,Red & Gray	C H	22.2												
15	28-30	4.5+		Clay,slks,Hard,Red & Gray	C H	24.5												

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q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-75

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)	
1	0 - 2	2.50		Sandy Clay,w/roots,Very stiff,Gray	C L	15.6												
2	2 - 4	3.00		Sandy Clay,w/fer nod,Very stiff,Gray	C L	16.1												
3	4 - 6	4.5+		Sandy Clay,w/fer nod & fer stains,Hard, Yellowish gray	C L	9.9												
4	6 - 8	4.5+		Sandy Clay,w/fer nod & fer stains,Hard, Yellowish gray	C L	11.3												
5	8 - 10	4.5+		Sandy Clay,w/fer nod & fer stains,Hard, Yellowish gray	C L	11.8	112.1	125.3	34.0	16.0	97.7	96.9	96.6	88.9	66.5		4.21	14
6	10 - 12	3.50		Sandy Clay,w/fer nod & fer stains,Very stiff, Yellowish gray	C L	14.4												
7	12 - 14	4.00		Clay,w/calc&fer nod,slks,Very stiff,Yellowish gray	C H	17.1												
8	14 - 16	4.5+		Clay,w/calc & fer nod,slks,Hard,Red & Gray	C H	19.1	105.2	125.2	60.0	23.0	99.9	99.6	98.2	96.1	95.1			
9	16 - 18	4.5+		Clay,w/calc & fer nod,slks,Hard,Red & Gray	C H	22.6											•	
10	18 - 20	4.5+		Clay,w/calc & fer nod,slks,Hard,Red & Gray	C H	23.1												
11	20 - 22	3.75		Clay,w/calc & fer nod,slks,Very stiff, Red & Gray	C H	24.9	98.6	123.1	61.0	24.0	100.0	100.0	99.8	99.3	99.0		2.04	15
12	22 - 24	4.25		Clay,w/calc & fer nod,slks,Hard,Red & Gray	C H	25.1												
13	24 - 26	4.25		Clay,w/calc & fer nod,slks,Hard,Red & Gray	C H	23.4												
14	26 - 28	4.25		Clay,w/calc & fer nod,slks,Hard,Red & Gray	C H	26.4												
15	28 - 30	4.5+		Clay,w/calc & fer nod,slks,Hard,Red & Gray	C H	23.2	100.2	123.5										

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Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-76

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)	
1	0 - 2	1.25		Sandy Clay,w/roots,Stiff,Gray	C L	18.9												
2	2 - 4	1.00		Sandy Clay,w/calc & fer nod,Stiff,Gray	C L	19.7												
3	4 - 6	2.25		Sandy Clay,w/calc & fer nod,Very stiff, Yellowish gray	C L	19.1	108.8	129.6	36.0	17.0	99.8	96.0	92.7	81.3	61.4		2.07	16
4	6 - 8	3.75		Sandy Clay,w/calc & fer nod,Very stiff, Yellowish gray	C L	16.1												
5	8 - 10	3.75		Clay,w/sand seams,slks,Very stiff,Yellowish Gray	C H	20.5												
6	10 - 12	4.25		Clay,w/sand seams,slks,Hard,Yellowish Gray	C H	21.3												
7	12 - 14	3.50		Clay,w/sand seams & fer stains,slks,Very stiff,Gray & Brown	C H	24.0												
8	14 - 16	4.5+		Clay,w/calc nod,slks,Hard,Red & Gray	C H	25.0	94.4	118.0	55.0	22.0								
9	16 - 18	4.5+		Clay,w/fer stains,slks,Hard,Red & Gray	C H	28.2												
10	18 - 20	4.5+		Clay,w/fer stains,slks,Hard,Red & Gray	C H	22.6												
11	20 - 22	4.5+		Clay,w/fer stains,slks,Hard,Red & Gray	C H	24.2												
12	22 - 24	4.5+		Clay,w/fer stains,slks,Hard,Red & Gray	C H	23.6												
13	24 - 26	4.5+		Clay,w/fer stains,slks,Hard,Red & Gray	C H	20.6	102.4	123.4	62.0	26.0	99.8	99.7	99.6	98.8	98.2		4.02	17
14	26 - 28	4.5+		Clay,w/fer stains,slks,Hard,Red & Gray	C H	25.0												
15	28 - 30	4.5+		Clay,w/fer stains,slks,Hard,Red & Gray	C H	26.1												

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q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

roject: Greens Bayou

SU OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-77

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)	
1	0 - 2	2.00		Sandy Clay,w/roots,Very stiff,Gray & Brown **(Fill Material 0-12')**	C L	14.0												
2	2 - 4	2.00		Sandy Clay,Very stiff,Gray	C L	14.6												
3	4 - 6	3.50		Sandy Clay,Very stiff,Gray	C L	15.4												
4	6 - 8	2.25		Sandy Clay,Very stiff,Gray	C L	15.5	106.7	123.2	25.0	17.0	99.6	96.7	95.1	86.0	69.8		2.18	18
5	8 - 10	3.75		Sandy Clay,Very stiff,Gray	C L	13.8												
6	10 - 12	3.25		Sandy Clay,Very stiff,Gray	C L	13.4												
7	12 - 14	3.75		Sandy Clay,Very stiff,Gray	C L	20.7												
8	14 - 16	2.50		Clay,w/calc & fer nod,Very stiff,Red & Gray	C H	25.2												
9	16 - 18	4.00		Clay,w/silt & sand seams,Very stiff,Red & Gray	C H	23.1	98.1	120.8	53.0	20.0	98.7	98.2	97.7	93.7	90.4		2.43	19
10	18 - 20	3.50		Clay,w/silt & sand seams,Very stiff,Red & Gray	C H	27.2												
11	20 - 22	4.5+		Clay,Hard,Red & Gray	C H	23.7												
12	22 - 24	4.5+		Clay,w/calc nod,slks,Hard,Red & Gray	C H	25.9												
13	24 - 26	4.50		Clay,w/calc nod,slks,Hard,Red & Gray	C H	27.7	94.8	121.1	62.0	26.0								
14	26 - 28	4.5+		Clay,w/calc nod,slks,Hard,Red & Gray	C H	26.8												
15	28 - 30	4.5+		Clay,w/calc nod,slks,Hard,Red & Gray	C H	27.8												

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q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-78

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
1	0 - 2	2.25		Sandy Clay,w/roots,Very stiff,Gray	C L	16.5											
2	2 - 4	4.5+		Sandy Clay,w/roots,Hard,Gray	C L	15.6											
3	4 - 6	0.50		Sandy Clay,w/sand seams,Medium stiff,Gray	C L	15.4	104.5	120.6	26.0	18.0	99.6	98.9	97.8	89.4	69.5		0.54
4	6 - 8	0.50		Sandy Clay,w/sand seams,Medium stiff,Gray	C L	19.8	108.8	130.3									
5	8 - 10	0.50		Sandy Clay,w/sand seams,Medium stiff,Gray & Yellowish gray	C L	19.4											
6	10 - 12	1.75		Sandy Clay,w/fer nod & sand seams,Stiff, Gray & Yellowish gray	C L	18.1	106.7	126.1	29.0	14.0	99.9	99.3	98.9	92.9	72.2		1.19
7	12 - 14	2.25		Sandy Clay,w/sand seams,Very stiff,Gray & Yellowish gray	C L	21.7											
8	14 - 16	4.00		Sandy Clay,w/sand seams,Very stiff,Gray & Yellowish gray	C L	20.6											
9	16 - 18	3.50		Clay,w/calc nod,Very stiff,Red & gray	C H	21.4	100.6	122.2	50.0	21.0	100.0	100.0	99.7	98.8	91.2		
10	18 - 20	4.50		Clay,w/calc nod,slks,Hard,Red & Gray	C H	19.9											
11	20 - 22	4.5+		Clay,w/calc nod,slks,Hard,Red & Gray	C H	27.2											
12	22 - 24	4.5+		Clay,w/calc nod,slks,Hard,Red & Gray	C H	23.1											
13	24 - 26	4.25		Clay,w/calc nod,slks,Hard,Red & Gray	C H	26.9											
14	26 - 28	4.5+		Clay,w/calc nod,slks,Hard,Red & Gray	C H	27.1	94.9	120.7	74.0	25.0							
15	28 - 30	4.5+		Clay,w/calc nod,slks,Hard,Red & Gray	C H	23.8											

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q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

Project: Greens Bayou

SU. .Y OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-79

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)	
1	0 - 2	2.25		Sandy Clay,w/roots,Very stiff,Gray	C L	17.0												
2	2 - 4	1.00		Sandy Clay,Stiff,Gray	C L	18.9												
3	4 - 6	1.00		Sandy Clay,w/calc & fer nod,Stiff,Yellowish Gray	C L	18.7												
4	6 - 8	1.00		Sandy Clay,w/calc & fer nod,Stiff,Yellowish Gray	C L	17.0	113.1	132.3	29.0	16.0	96.7	95.4	94.7	89.7	82.0		1.19	
5	8 - 10	2.00		Sandy Clay,w/calc & fer nod,Very stiff, Yellowish gray	C L	16.4												
6	10 - 12	3.00		Sandy Clay,Very stiff,Yellowish brown	C L	19.9	107.1	128.4										
7	12 - 14	3.00		Clay,w/sand seams,Very stiff,Gray & Red	C H	21.1												
8	14 - 16	2.75		Clay,w/calc & fer nod,slks,Very stiff,Red & Gray	C H	27.1	95.0	120.8	51.0	20.0	100.0	100.0	99.9	99.6	98.0		2.27	20
9	16 - 18	4.5+		Clay,w/calc&fer nod,slks,Hard,Red & Gray	C H													
10	18 - 20	4.5+		Clay,w/calc&fer nod,slks,Hard,Red & Gray	C H	28.4												
11	20 - 22	4.5+		Clay,w/calc&fer nod,slks,Hard,Red & Gray	C H	26.9												
12	22 - 24	4.25		Clay,w/calc&fer nod,slks,Hard,Red & Gray	C H	27.1	95.3	121.2	66.0	24.0								
13	24 - 26	4.5+		Clay,w/calc&fer nod,slks,Hard,Red & Gray	C H	27.3												
14	26 - 28	4.5+		Clay,w/calc&fer nod,slks,Hard,Red & Gray	C H	24.1	98.9	122.8	70.0	26.0	100.0	99.8	99.6	98.8	97.8		3.91	21
15	28 - 30	1.25		Silty Clay,w/silt stone & silt seams,Stiff,Red	C L	24.6	98.1	122.2										

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$\gamma_b (MC+1)\gamma_d$

EL

EL 107.118 TOB

EL 92.5 ft

15

Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-80

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
1	0 - 2	2.00		Sandy Clay,w/roots,Very stiff,Gray	C L	19.3											
2	2 - 4	3.25		Sandy Clay,Very stiff,Gray	C L	15.1	γ_b = 120										
3	4 - 6	1.00		Sandy Clay,w/fer nod & sand seams,Stiff, Gray	C L	20.7	102.8	124.1	24.0	15.0	100.0	99.3	99.1	94.3	72.1		1.06
4	6 - 8	1.25		Sandy Clay,w/fer nod & sand seams,Stiff, Gray	C L	20.4	γ_b = 123										
5	8 - 10	1.50		Sandy Clay,w/fer nod & sand seams,Stiff, Gray	C L	18.9											
6	10 - 12	3.25		Clay,w/calc nod & fer stains,slks,Very stiff, Red & Gray	C H	23.8											
7	12 - 14	3.75		Clay,w/calc nod & fer stains,slks,Very stiff, Red & Gray	C H	24.1	125										
8	14 - 16	3.75		Clay,w/calc nod & fer stains,slks,Very stiff, Red & Gray	C H	23.5	100.9	124.6	55.0	23.0	99.8	99.4	98.8	97.7	96.5		
9	16 - 18	4.5+		Clay,w/fer stains,slks,hard,Red & Gray	C H	25.4											
10	18 - 20	4.50		Clay,w/fer stains,slks,hard,Red & Gray	C H	27.0											
11	20 - 22	4.5+		Clay,w/fer stains,slks,hard,Red & Gray	C H	28.0											
12	22 - 24	4.5+		Clay,w/fer stains,slks,hard,Red & Gray	C H	28.0	121										
13	24 - 26	4.50		Clay,w/fer stains,slks,hard,Red & Gray	C H	28.2	94.3	120.9	65.0	26.0							
14	26 - 28	4.50		Clay,w/fer stains,slks,hard,Red & Gray	C H	28.7											
15	28 - 30	4.50		Clay,w/fer stains,slks,hard,Red & Gray	C H	24.5											

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Project: Greens Bayou

SU .RY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-81

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
1	0 - 2	2.75		Sandy Clay,w/grass roots,Very stiff,Gray	C L	13.6											
2	2 - 4	2.50		Sandy Clay,Very stiff,Gray	C L	12.3											
3	4 - 6	0.75		Silty Clay,w/fer nod & sand seams,Medium stiff,Gray & Yellowish gray	C L	15.1	105.2	121.1	26.0	16.0							
4	6 - 8	0.75		Silty Clay,w/fer nod & sand seams,Medium stiff,Gray & Yellowish gray	C L	16.7											
5	8 - 10	0.50		Silty Clay,w/fer nod & sand seams,Medium stiff,Gray & Yellowish gray	C L	16.4											
6	10 - 12	0.50		Silty Clay,w/fer nod & sand seams,Medium stiff,Gray & Yellowish gray	C L	17.7	110.1	129.6	28.0	16.0	98.5	98.2	97.8	93.8	88.3		0.52
7	12 - 14	1.75		Silty Clay,w/fer nod & sand seams,Stiff, Gray & Yellowish gray	C L	19.0											
8	14 - 16	2.25		Clay,w/fer stains,slks,Very stiff,Red & Gray	C H	22.1											
9	16 - 18	2.75		Clay,w/fer stains,slks,Very stiff,Red & Gray	C H	25.5											
10	18 - 20	1.75		Clay,w/fer stains,slks,Stiff,Red & Gray	C H	31.1	87.8	115.1	57.0	25.0							
11	20 - 22	3.75		Clay,w/calc nod & fer stains,slks,Very stiff, Red & Gray	C H	25.2											
12	22 - 24	3.75		Clay,w/calc nod & fer stains,slks,Very stiff, Red & Gray	C H	24.2											
13	24 - 26	3.75		Clay,w/calc nod & fer stains& silt layer,slks, Very stiff,Red & Gray	C H	27.3											
14	26 - 28	2.75		Silty Clay,w/silt stone & silt layer,Very stiff, Red & Gray	C L	21.2	104.3	126.3	32.0	18.0	95.3	93.3	91.6	91.6	91.5		1.99
15	28 - 30	2.75		Silty Clay,w/silt stone & silt layer,Very stiff, Red & Gray	C L	22.7											

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S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classifcation, M c : Moisture Content
q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

Project: Greens Bayou

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 97-82

EL 104.178
FL 90.0'

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
1	0 - 2	4.5+		Sandy Clay,w/roots,Hard,Gray	C L	12.7											
2	2 - 4	1.25		Sandy Clay,w/silt seams,Stiff,Gray	C L	16.9											
3	4 - 6	1.25		Silty Clay,w/sand seams,Stiff,Yellowish gray	C L	18.9	107.2	127.5	23.0	15.0	99.7	99.6	99.5	94.1	89.6		1.26
4	6 - 8	1.75		Silty Clay,w/sand seams,Stiff,Yellowish gray	C L	19.9											
5	8 - 10	1.25		Silty Clay,w/sand seams,Stiff,Yellowish gray	C L	18.1											
6	10 - 12	1.25		Silty Clay,w/sand seams,Stiff,Yellowish gray	C L	19.4											
7	12 - 14	2.25		Silty Clay,w/fer stains & sand seams,Very stiff,Yellowish gray	C L	21.5											
8	14 - 16	2.00		Clay,w/silt & sand seams,Very stiff,Red & Gray	C H	21.6	101.5	123.3	68.0	27.0	100.0	100.0	99.6	96.6	95.6		2.02
9	16 - 18	3.25		Clay,w/silt & sand seams,Very stiff,Red & Gray	C H	29.6											
10	18 - 20	4.25		Clay,slks,Hard,Red & Gray	C H	37.8											
11	20 - 22	4.5+		Clay,slks,Hard,Red & Gray	C H	28.3											
12	22 - 24	4.5+		Clay,w/calc nod,slks,Hard,Red & Gray	C H	27.0	92.9	118.1	56.0	22.0							
13	24 - 26	4.5+		Clay,w/calc nod,slks,Hard,Red & Gray	C H	26.4											
14	26 - 28	4.50		Clay,w/calc nod,slks,Hard,Red & Gray	C H	22.7											
15	28 - 30	4.50		Clay,w/calc nod,slks,Hard,Red & Gray	C H	25.0											

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S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classifcation, M c : Moisture Content
q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

Project: Greens Bayou

SU. RY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-83

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)	
1	0 - 2	1.75		Sandy Clay,w/roots,Stiff,Gray	C L	15.9												
2	2 - 4	1.75		Sandy Clay,w/sand seams,Stiff,Gray	C L	18.7												
3	4 - 6	2.50		Sandy Clay,w/sand seams,Very stiff,Gray	C L	20.4												
4	6 - 8	3.25		Sandy Clay,w/fer nod & sand seams,Very stiff,Yellowish gray	C L	16.4	109.9	127.8	27.0	17.0	100.0	99.9	99.5	97.5	79.3		2.14	24
5	8 - 10	1.25		Sandy Clay,w/fer stains & sand seams,Stiff, Gray	C L	19.7												
6	10 - 12	3.00		Clay,w/sand seams & fer stains,Very stiff, Yellowish gray & red	C H	19.0												
7	12 - 14	4.5+		Clay,w/fer nod fer stains&sand seams,Hard, Red & Gray	C H	22.8												
8	14 - 16	4.50		Clay,w/fer nod fer stains&silt seams,Hard, Red & Gray	C H	19.8												
9	16 - 18	3.00		Silty Clay,w/fer nod & fer stains & silt seams ,Very stiff,Red & Gray	C L	21.5	100.9	122.6	42.0	21.0	100.0	100.0	99.9	99.2	92.8		2.11	25
10	18 - 20	4.5+		Silty Clay,Hard,Red & Gray	C L	21.7	102.3	124.6	40.0	20.0								
11	20 - 22	2.75		Clay,w/sand seams,slks,Very stiff,Red &	C H	34.3												
12	22 - 24	4.25		Clay,slks,Hard,Red & Gray	C H	27.6												
13	24 - 26	4.25		Clay,w/calc nod,slks,Hard,Red & Gray	C H	27.5												
14	26 - 28	4.50		Clay,w/calc nod,slks,Hard,Red & Gray	C H	27.4	98.3	125.2	64.0	28.0								
15	28 - 30	4.5+		Clay,w/calc nod,slks,Hard,Red & Gray	C H	25.0												

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q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-84

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)	
1	0 - 2	4.5+		Sandy Clay,w/roots,Hard,Gray	C L	4.0												
2	2 - 4	4.5+		Sandy Clay,Hard,Gray	C L	3.9												
3	4 - 6	4.5+		Sandy Clay,Hard,Gray	C L	6.1												
4	6 - 8	4.5+		Sandy Clay,Hard,Yellowish gray	C L	11.0												
5	8 - 10	4.5+		Sandy Clay,Hard,Yellowish gray	C L	12.3	112.4	126.2	26.0	16.0	99.2	99.2	99.2	96.8	81.9		4.27	26
6	10 - 12	3.00		Sandy Clay,w/fer nod,Very stiff,Yellowish Gray	C L	19.8												
7	12 - 14	2.50		Sandy Clay,w/fer nod,Very stiff,Yellowish Gray	C L	14.0												
8	14 - 16	2.00		Sandy Clay,w/fer nod,Very stiff,Yellowish Gray	C L	18.8												
9	16 - 18	2.00		Sandy Clay,w/sand seams,Very stiff, Yellowish Gray	C L	19.1	105.9	126.2	27.0	16.0	100.0	100.0	100.0	97.7	66.7		2.07	27
10	18 - 20	2.50		Sandy Clay,w/sand seams,Very stiff, Yellowish Gray	C L	23.2												
11	20-21.5		14	Silty Sand,Medium Dense,Gray & Brown	S M	22.7												
12	25-26.5		23	Silty Sand,Medium Dense,Gray & Brown	S M	23.6					100.0	100.0	99.9	82.3	47.6			
13	28-30	1.50		Silty Clay,w/sand seams,Stiff,Red & Gray	C L	32.0	88.2	116.4	33.0	17.0	100.0	100.0	100.0	99.9	99.1		1.28	

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q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

oject: Greens Bayou

SUI OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-85

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
1	0 - 2	4.5+		Sandy Clay,w/roots,Hard,Gray	C L	6.6											
2	2 - 4	4.5+		Sandy Clay,w/fer stains,Hard,Gray	C L	3.5											
3	4 - 6	4.5+		Sandy Clay,w/fer stains,Hard,Gray	C L	6.3											
4	6 - 8	4.5+		Sandy Clay,w/fer stains,Hard,Yellowish gray	C L	6.7	107.1	114.3	28.0	15.0							
5	8 - 10	4.5+		Sandy Clay,w/fer stains,Hard,Yellowish gray	C L												
6	10 - 12	1.50		Sandy Clay,w/fer nod & fer stains,Stiff, Yellowish gray	C L	14.4	105.8	121.1	31.0	15.0	99.7	99.5	99.4	95.6	65.2		1.17
7	12 - 14	3.75		Sandy Clay,w/fer nod fer stains&sand seams Very stiff,Yellowish gray	C L	10.7											
8	14 - 16	4.00		Sandy Clay,w/fer nod fer stains&sand seams Very stiff,Yellowish gray	C L	9.9											
9	16 - 18	2.50		Sandy Clay,w/fer nod fer stains&sand seams Very stiff,Yellowish gray	C L	14.1											
10	18-19.5		13	Silty Sand,Medium dense,Gray	S M	21.7											
11	23-24.5		25	Silty Sand,Medium dense,Gray	S M	18.5											
12	28-29.5		36	Silty Sand,Dense,Gray	S M	19.3											
13	33-34.5		10	Clay,w/calc nod & blocky structure,Stiff, Red & Gray	C H	18.8											
14	34.5-36	4.5+		Clay,w/calc nod & blocky structure,Hard, Red & Gray	C H	19.2											
15	36-38	4.5+		Clay,w/calc nod & blocky structure,Hard, Red & Gray	C H	25.7	101.5	127.6	61.0	24.0	99.7	99.1	98.6	98.6	98.3		4.02
16	38-40	4.5+		Clay,w/calc nod & blocky structure,Hard, Red & Gray	C H												
17	40-41	4.5+		Clay,w/calc nod & blocky structure,Hard, Red & Gray	C H	15.7											
17A	41-42			Sandy Silt,Gray & Brown	M L	19.0											
18	42-44	4.5+		Clay,w/sand pockets,Hard,Red & Gray	C H	18.2											
19	44-46	4.5+		Sandy Clay,Hard,Red & Gray	C L	16.7											

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q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-85

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
20	46-48	4.5+		Sandy Clay,Hard,Red & Gray	C L	17.8	108.9	128.3	31.0	17.0	100.0	100.0	100.0	98.1	63.4		4.08
21	48-50	4.5+		Sandy Clay,Hard,Red & Gray	C L	17.4											

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Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-86

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)	
1	0 - 2	2.50		Sandy Clay,w/roots,Very stiff,Gray & brown	C L	12.7												
2	2 - 4	2.25		Sandy Clay,Very stiff,Gray	C L	15.2												
3	4 - 6	2.25		Sandy Clay,Very stiff,Gray	C L	9.9												
4	6 - 8	2.25		Sandy Clay,Very stiff,Gray	C L	11.1												
5	8 - 10	3.50		Sandy Clay,w/fer nod,Very stiff,Gray	C L	13.0	109.7	124.0	23.0	14.0	98.7	98.6	98.5	95.2	77.9		2.93	5
6	10 - 12	2.25		Sandy Clay,w/fer nod,Very stiff,Yellowish Gray	C L	13.9												
7	12 - 14	2.75		Clay,w/sand seams,Very stiff,Red & Gray	C H	17.2												
8	14 - 16	3.75		Clay,w/sand seams,Very stiff,Red & Gray	C H													
9	16 - 18	4.5+		Clay,w/sand seams,Hard,Red & Gray	C H	23.5												
10	18 - 20	2.75		Silty Clay,Very stiff,Red & Gray	C L	23.2	100.0	123.2	45.0	18.0	100.0	100.0	99.9	99.4	91.9		2.67	6
11	20 - 22	2.00		Silty Clay,w/silt seams,Red & Gray	C L	22.9												
12	22 - 24	4.5+		Clay,w/calc nod,Hard,Red & Gray	C H	25.8												
13	24 - 26	4.5+		Clay,w/calc nod,Hard,Red & Gray	C H	20.5												
14	26-27.5		68	Silty Sand,Very dense,Reddish brown	S M	25.0												
15	31-32.5		68	Silty Sand,Very dense,Reddish brown	S M	25.3					100.0	99.8	99.7	97.9	36.6			
16	32.5-34	4.5+		Clay,w/calc nod,Hard,Red & Gray	C H	27.1												
17	34-36	3.75		Clay,w/calc nod,Very stiff,Red & Gray	C H	24.4												
18	36-38	3.75		Clay,w/blocky structure,slks,Very stiff, Red & Gray	C H	27.9												
19	38-40	4.50		Clay,w/blocky structure,slks,Hard,Red & Gray	C H	26.0												
20	40-42	4.00		Clay,w/calc nod & blocky structure,slks,Very stiff,Red & Gray	C H	17.4	110.3	129.5	58.0	23.0	100.0	100.0	100.0	99.6	97.7		3.67	7

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Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-86

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
21	42-44	4.00		Clay,w/calc nod & blocky structure,slks, Very stiff,Red & Gray	C H	17.2											
22	44-45.5		63	Silty Sand,Very dense,Reddish brown	S M	17.9											
23	48-50	4.5+		Clay,w/calc nod,slks,Hard,Red & Gray	C H	27.2											
24	50-52	4.5+		Clay,w/calc nod,slks,Hard,Red & Gray	C H	28.6											
25	52-54	4.5+		Clay,w/calc nod,slks,Hard,Red & Gray	C H	23.7											
26	54-56	4.5+		Clay,w/calc nod,slks,Hard,Red & Gray	C H	21.7	105.0	127.8									
27	56-58	4.5+		Clay,w/calc nod,slks,Hard,Red & Gray	C H	23.0											
28	58-60	2.75		Sandy Clay,Very stiff,Yellowish gray	C L	17.8	109.6	129.1	30.0	15.0							

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Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-87

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
1	0 - 2	2.50		Sandy Clay,w/grass roots,Very stiff,Gray & Brown	C L	20.2											
2	2 - 4	1.75		Sandy Clay,Stiff,Gray	C L	14.8											
3	4 - 6	1.75		Sandy Clay,w/calc & fer nod,Stiff,Gray	C L	14.9	108.7	125.0	30.0	16.0	98.4	94.3	87.9	83.1	67.7		1.17
4	6 - 8	2.50		Sandy Clay,w/calc & fer nod,Very stiff,Gray & Yellowish gray	C L	15.0											
5	8 - 10	2.00		Sandy Clay,w/calc & fer nod,Very stiff,Gray & Yellowish gray	C L	17.5											
6	10 - 12	2.50		Clay,w/sand seams,Very stiff,Red & Gray	C H	22.1											
7	12 - 14	3.50		Clay,w/fer nod & sand seams,Very stiff,Red & Gray	C H												
8	14 - 16	4.5+		Clay,w/fer nod & sand seams,Hard,Red & Gray	C H	17.7											
9	16 - 18	4.5+		Clay,w/fer nod & sand seams,Hard,Red & Gray	C H	17.9											
10	18 - 20	3.00		Silty Clay,Very stiff,Brown & Gray	C L	18.7	104.5	124.0	31.0	20.0	100.0	100.0	99.9	99.5	88.7		2.40
11	20 - 22	4.00		Clay,w/silt seams,Very stiff,Red & Gray	C H	25.0											
12	22 - 24	4.5+		Clay,w/calc nod & silt seams,Hard,Red & Gray	C H	24.4											
13	24 - 26	3.75		Silty Clay,Very stiff,Red & gray	C L	24.2	97.9	121.6	28.0	20.0							
14	26 - 28			Silty Sand,Very dense,Reddish brown	S M	24.1					100.0	100.0	100.0	74.1	32.9		
15	28-29.5		74	Silty Sand,Very dense,Reddish brown	S M	21.6											
16	32-34	4.25		Clay,w/calc nod & fer stains,slks,Hard,Red & Gray	C H	22.6											
17	34-36	4.5+		Clay,w/calc nod & fer stains,slks,Hard,Red & Gray	C H	22.5											
18	36-38	4.5+		Clay,w/calc nod & fer stains,slks,Hard,Red & Gray	C H	21.0	103.0	124.7	59.0	22.0							
19	38-40	4.5+		Clay,w/calc nod & fer stains,slks,Hard,Red & Gray	C H	21.5											
20	40-42	4.5+		Clay,w/calc nod & fer stains,slks,Hard,Red & Gray	C H	16.1											

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q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

oject: Greens Bayou

SUM OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-87

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
21	42-44	4.5+		Silty Clay,w/silt seams,Hard,Red & Gray	C L	16.5	110.4	128.6	43.0	19.0							
22	44-46	3.00		Silty Clay,Very stiff,Brown	C L	19.3											
23	46-48	2.50		Silty Clay,w/fer nod,Very stiff,Red & Gray	C L	21.5											
24	48-50			Silt,Reddish brown & gray	M L	18.7											
25	50-52	4.25		Silty Clay,Hard,Reddish brown	C L	20.6											
26	52-54	4.5+		Clay,w/calc nod,Hard,Red & Gray	C H	21.5											
27	54-56	4.50		Clay,w/calc nod,Hard,Red & Gray	C H	18.3	108.6	128.4	55.0	21.0	99.7	96.9	94.5	93.9	92.3		3.82
28	56-58	1.00		Silty Clay,w/calc nod,Stiff,Gray	C L	18.2											
29	58-60	3.25		Silty Clay,w/calc nod,Very stiff,Gray & Brown	C L	15.4											

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q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-88

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
1	0 - 2			Clayey Sand,w/grass roots,Gray	S C	14.3											
2	2 - 4	0.50		Sandy Clay,Medium stiff,Dark gray	C L	14.8											
3	4 - 6	4.5+		Sandy Clay,w/fer nod & sand seams,Hard, Gray & Yellowish gray	C L	11.8											
4	6 - 8	4.5+		Sandy Clay,w/fer nod & sand seams,Hard, Gray & Yellowish gray	C L	8.0											
5	8 - 10	1.50		Sandy Clay,w/fer nod & sand seams,Stiff, Gray & Yellowish gray	C L	17.7	105.6	124.3	27.0	17.0	99.8	99.6	99.5	96.6	77.1		1.23
6	10 - 12	1.25		Sandy Clay,w/fer nod & sand seams,Stiff, Gray & Yellowish gray	C L	19.6											
7	12 - 14	3.50		Sandy Clay,w/calc nod & sand seams,Very stiff,Gray & Yellowish gray	C L	21.8											
8	14 - 16	3.75		Sandy Clay,w/calc nod & sand seams,Very stiff,Gray & Yellowish gray	C L	19.8											
9	16 - 18	3.50		Clay,w/fer stains,slks,Very stiff,Red & Gray	C H	22.3											
10	18 - 20	3.50		Clay,w/fer stains,slks,Very stiff,Red & Gray	C H	21.5	98.8	120.1	52.0	23.0							
11	20-21		n	Silty Sand,Red ? Medium Dense	S M	—	—	—									
11A	21-22	3.50		Clay,w/fer stains,slks,Very stiff,Red	C H	32.2											
12	22-24	4.5+		Clay,w/fer stains,slks,Hard,Red	C H	29.5	92.5	119.7	74.0	30.0	99.9	99.4	99.2	94.1	92.3		4.15
13	24-26	4.5+		Clay,w/fer stains,slks,Hard,Red	C H	21.8											
14A	26-27			Sandy Silt,w/silt stone,Red Medium Dense	M L												
14	27-28	3.50		Clay,w/silt stone & fer stains,slks,Very stiff, Red	C H	25.3											
15	28-30			Sandy Silt,Medium dense,Red	M L												
16	30-31.5		23	Sandy Silt,Medium dense,Red	M L												
17	32-34	3.75		Clay,w/calc nod & fer stains,slks,Very stiff, Red	C H	25.6											
18	34-36	4.25		Clay,w/calc nod & fer stains,slks,Hard,Red	C H	26.1											

10

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classifcation, M c : Moisture Content
q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-88

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
19	36-38	3.50		Clay,w/calc nod & fer stains,slks,Very stiff, Red	C H	30.4	93.4	121.8	52.0	23.0							
20	38-40	4.25		Clay,w/calc nod & fer stains,slks,Hard,Red	C H	30.2											
21	40-42	1.00		Sandy Clay,Stiff,Yellowish gray	C L	17.7	111.3	131.0	27.0	16.0	100.0	100.0	99.9	94.4	63.8		1.16
22	42-44	3.50		Sandy Clay,w/fer stains & sand seams,Very stiff,Red & Gray	C L	19.2											
23	44-46	1.75		Sandy Clay,w/fer stains & sand seams,Stiff, Red & Gray	C L	18.0											
24	46-48			Sandy Silt,Medium dense,Red	M L	18.6											
25	48-49.5		24	Sandy Silt,Medium dense,Red	M L												
26	49.5-51		30	Sandy Silt,Medium dense,Red	M L												

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q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-89

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
1	0 - 2	1.00		Sandy Clay,w/grass roots,Stiff,Dark gray	C L	18.6											
2	2 - 4	1.00		Sandy Clay,Stiff,Dark gray	C L	16.6											
3	4 - 6	1.50		Sandy Clay,w/fer stains & sand seams,Stiff, Yellowish gray	C L	16.1	104.0	120.7	40.0	18.0	100.0	100.0	99.8	95.4	78.9		1.53
4	6 - 8	2.00		Sandy Clay,w/fer stains & sand seams,Very stiff,Yellowish gray	C L	16.8											
5	8 - 10	2.00		Sandy Clay,w/fer stains & sand seams,Very stiff,Yellowish gray	C L	16.8											
6	10 - 12	2.00		Sandy Clay,w/fer stains & sand seams,Very stiff,Yellowish gray	C L	16.6											
7	12 - 14	3.75		Clay,w/fer stains & sand seams,Very stiff, Reddish brown & Gray	C H	21.0	102.7	124.3	55.0	21.0	100.0	99.9	98.8	95.5	88.9		2.16
8	14 - 16	3.50		Clay,w/fer stains & sand seams,Very stiff, Reddish brown & Gray	C H	23.5											
9	16 - 18	3.50		Clay,w/fer stains & sand seams,Very stiff, Reddish brown & Gray	C H	26.7											

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q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

ɔject: Greens Bayou

SUM OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-90

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
1	0 - 2	1.00		Sandy Clay,w/grass roots,Stiff,Dark gray	C L	20.7											
2	2 - 4	1.00		Sandy Clay,Stiff,Dark gray	C L	17.1	106.7	125.0	26.0	18.0	100.0	99.7	99.4	95.2	77.8		1.20
3	4 - 6	0.75		Sandy Clay,w/fer stains,Medium stiff,Gray & Yellowish gray	C L	21.1											
4	6 - 8	2.00		Sandy Clay,w/fer nod,Very stiff,Gray & Yellowish gray	C L	17.6											
5	8 - 10	2.25		Sandy Clay,w/fer nod,Very stiff,Gray & Yellowish gray	C L	17.3											
6	10 - 12	2.75		Sandy Clay,w/fer nod,Very stiff,Gray & Yellowish gray	C L	18.6											
7	12 - 14	3.00		Silty Clay,w/fer stains & sand seams,Very stiff,Gray & Brown	C L	16.8	108.7	127.0	49.0	18.0							
8	14 - 16	3.50		Clay,w/fer stains & sand seams,Very stiff, Brown & gray	C H	18.6											
9	16 - 18	3.75		Clay,w/fer stains & sand seams,Very stiff, Brown & gray	C H	19.0	105.3	125.3	54.0	22.0							

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q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

Project: Greens Bayou

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 97-91

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
1	0 - 2	0.50		Sandy Clay,w/grass roots,Medium stiff,Dark Gray	C L	25.2											
2	2 - 4	0.75		Sandy Clay,Medium stiff,Gray	C L	17.2											
3	4 - 6	0.75		Sandy Clay,w/fer nod,Medium stiff,Yellowish Gray	C L	16.0	108.9	126.4	29.0	17.0							
4	6 - 8	1.25		Sandy Clay,w/fer nod,Stiff,Yellowish gray	C L	18.3											
5	8 - 10	2.00		Sandy Clay,w/fer nod,Very stiff,Yellowish Gray	C L	16.7											
6	10 - 12	2.25		Sandy Clay,w/fer nod,Very stiff,Yellowish Gray	C L	15.4	110.9	128.0	36.0	16.0							
7	12 - 14			Clayey Sand,Medium dense,Gray	S C	19.1											
8	14-15.5		14	Silty Sand,Medium Dense,Gray	S M	19.6											
9	16.5-18		12	Silty Sand,Medium Dense,Gray	S M	18.6					100.0	100.0	86.8	19.7	16.6		

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classifcation, M c : Moisture Content
q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-92

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
1	0 - 2	0.50		Sandy Clay,w/grass roots,Medium stiff, Dark gray	C L	21.5											
2	2 - 4	0.50		Sandy Clay,w/fer nod,Medium stiff,Gray	C L	20.0											
3	4 - 6	0.50		Sandy Clay,w/fer nod,Medium stiff,Gray	C L	20.1	104.6	125.7	28.0	17.0							
4	6 - 8	0.75		Sandy Clay,w/fer nod,Medium stiff,Gray & Yellowish gray	C L	16.5											
5	8 - 10	1.25		Sandy Clay,w/fer nod,Stiff,Gray & Yellowish Gray	C L	17.4	108.4	127.3	37.0	16.0							
6	10 - 12	1.25		Sandy Clay,w/fer nod,Stiff,Gray & Yellowish Gray	C L	20.7											
7	12 - 14	2.25		Sandy Clay,w/soft sandy clay seams,Very stiff,Brown & Gray	C L	22.9											
8	14 - 16	3.25		Sandy Clay,w/sand seams & fer stains,Very stiff,Brown & Gray	C L	18.4	106.2	125.8	41.0	19.0							
9	16 - 18	3.25		Sandy Clay,w/sand layer & fer stains,Very stiff,Brown & Gray	C L	19.0											

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q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-93

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
1	0 - 2	1.25		Sandy Clay,w/grass roots,Stiff,Dark gray	C L	21.1											
2	2 - 4	1.25		Sandy Clay,w/fer nod & sand seams,Stiff, Gray	C L	17.0	105.9	123.9	30.0	19.0							
3	4 - 6	1.25		Sandy Clay,w/fer nod & sand seams,Stiff, Yellowish gray & gray	C L	16.8											
4	6 - 8	1.75		Sandy Clay,w/fer nod & sand seams,Stiff, Yellowish gray & gray	C L	15.9	110.8	128.5	26.0	18.0							
5	8 - 10	1.25		Sandy Clay,w/fer nod & sand seams,Stiff, Gray	C L	16.6											
6	10 - 12	1.75		Sandy Clay,w/fer nod & sand seams,Stiff, Gray	C L	18.9											
7	12 - 14	1.50		Sandy Clay,w/fer nod & sand seams,Stiff, Brown & gray	C L	21.6											
8	14 - 16	1.75		Sandy Clay,w/fer nod & sand seams,Stiff, Brown & gray	C L	21.2	101.7	123.3	30.0	17.0							
9	16 - 18	1.25		Sandy Clay,w/fer nod & sand seams,Stiff, Brown & gray	C L	23.3											

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classifcation, M c : Moisture Content
q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

Project: Greens Bayou

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-95-D-0007 Delivery Order No. 0047

Boring No. 97-93

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
1	0 - 2	1.25		Sandy Clay,w/grass roots,Stiff,Dark gray	C L	21.1											
2	2 - 4	1.25		Sandy Clay,w/fer nod & sand seams,Stiff, Gray	C L	17.0	105.9	123.9	30.0	19.0							
3	4 - 6	1.25		Sandy Clay,w/fer nod & sand seams,Stiff, Yellowish gray & gray	C L	16.8											
4	6 - 8	1.75		Sandy Clay,w/fer nod & sand seams,Stiff, Yellowish gray & gray	C L	15.9	110.8	128.5	26.0	18.0							
5	8 - 10	1.25		Sandy Clay,w/fer nod & sand seams,Stiff, Gray	C L	16.6											
6	10 - 12	1.75		Sandy Clay,w/fer nod & sand seams,Stiff, Gray	C L	18.9											
7	12 - 14	1.50		Sandy Clay,w/fer nod & sand seams,Stiff, Brown & gray	C L	21.6											
8	14 - 16	1.75		Sandy Clay,w/fer nod & sand seams,Stiff, Brown & gray	C L	21.2	101.7	123.3	30.0	17.0							
9	16 - 18	1.25		Sandy Clay,w/fer nod & sand seams,Stiff, Brown & gray	C L	23.3											

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classifcation, M c : Moisture Content
q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

SIEVE ANALYSIS

PROJECT: GREENS BAYOU

BORING: 97-87 SAMPLE: 7 DF: PR0998A .DAT
DEPTH: 12-14 DATE: 28 APR 98

LL: 50 PL: 17 PI: 33 GS: .00 WC: .00
CLASSIFICATION: 200
SANDY CLAY (CH), REDDISH BROWN

TOTAL WEIGHT OF SAMPLE: .0 gms.
PARTIAL WEIGHT AFTER SPLIT: 51.7 gms.

WEIGHTS gm.	SIEVE SIZE or NUMBER	OPENING mm	PERCENT FINER	PERCENT COARSER
.0	No 4	4.750	100.0	.0
.0	No 6	3.350	100.0	.0
.0	No 10	2.000	100.0	.0
.0	No 16	1.180	100.0	.0
.0	No 20	.850	100.0	.0
.0	No 30	.600	100.0	.0
.1	No 40	.425	99.8	.2
.1	No 50	.300	99.8	.2
.4	No 70	.212	99.2	.8
1.8	No 100	.150	96.5	3.5
5.1	No 140	.106	90.1	9.9
8.9	No 200	.075	82.8	17.2

PERCENT GRAVEL = .0
PERCENT SAND = 17.2
PERCENT FINES = 82.8

EDE

JOB NO. 114008614 DATE 3/11/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-72 SAMPLE NO. 5 DEPTH 8-10 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/calc & fer nod,Stiff,Gray & yellowish gray

Tare No.	IM-11	Height	5.595 in.
Tare plus Wet Specimen	258.66 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	229.58 gm	Initial Area	6.290 sq in.
Water Weight	29.08 gm	Volume	35.194 cu in.
Tare Weight	42.91 gm	Volume of Solids	cu in.
Wet Specimen	1180.34 gm	Void Ratio	
Dry Specimen	1021.25 gm	Saturation	%
Water Content	15.58 %	Dry Density	110.5 lb/cu ft
Specific Gravity of Solids			

LL = 28 PL = 14 PI = 14

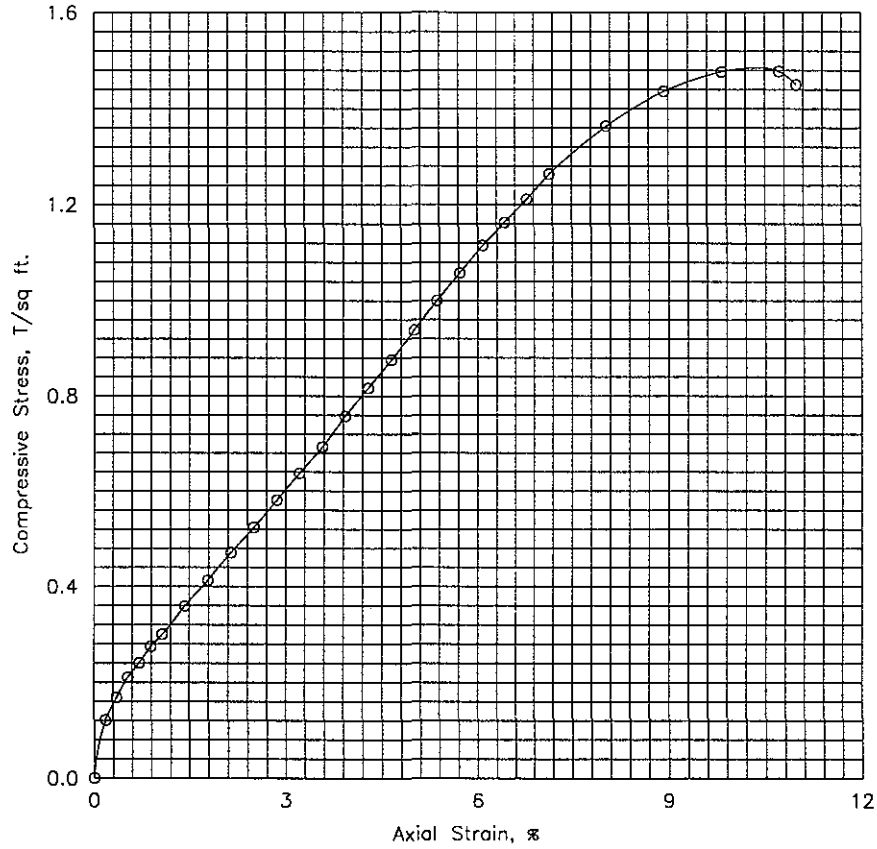
Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	14.0	10.6	.002	6.30	.121
.3	20.	.020	19.5	14.8	.004	6.31	.168
.5	30.	.030	24.5	18.5	.005	6.32	.211
.7	40.	.040	28.0	21.2	.007	6.34	.241
.9	50.	.050	32.0	24.2	.009	6.35	.275
1.0	60.	.060	35.0	26.5	.011	6.36	.300
1.4	80.	.080	42.0	31.8	.014	6.38	.359
1.7	100.	.100	48.5	36.7	.018	6.40	.413
2.0	120.	.120	55.5	42.0	.021	6.43	.471
2.3	140.	.140	62.0	46.9	.025	6.45	.524
2.7	160.	.160	69.0	52.2	.029	6.48	.581
3.0	180.	.180	76.0	57.5	.032	6.50	.637
3.3	200.	.200	83.0	62.8	.036	6.52	.693
3.6	220.	.220	91.0	68.9	.039	6.55	.758
3.9	240.	.240	98.5	74.6	.043	6.57	.817
4.2	260.	.260	106.0	80.2	.046	6.60	.876
4.6	280.	.280	114.0	86.3	.050	6.62	.938
4.9	300.	.300	122.0	92.4	.054	6.65	1.000
5.2	320.	.320	129.5	98.0	.057	6.67	1.058
5.5	340.	.340	137.0	103.7	.061	6.70	1.115
5.8	360.	.360	143.5	108.6	.064	6.72	1.163
6.1	380.	.380	150.0	113.6	.068	6.75	1.211
6.4	400.	.400	157.0	118.8	.071	6.77	1.263
6.7	450.	.450	171.0	129.4	.080	6.84	1.363
7.4	500.	.500	182.0	137.8	.089	6.91	1.436
8.3	550.	.550	189.0	143.1	.098	6.98	1.477

9.1	600.	.600	191.0	144.6	.107	7.05	1.478
9.4	615.	.615	188.0	142.3	.110	7.07	1.450

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	15.6 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	110.5			
Time to failure, min		t_f	9.13			
Unconfined compressive strength, T/sq ft		q_u	1.48			
Undrained shear strength, T/sq ft		S_u	.74			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,w/calc & fer nod,Stiff,Gray & yellowish gray

LL	28	PL	14	PI	14	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-72 | Sample No. 5

Depth El 8-10 ft | Date 3/11/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/11/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-72 SAMPLE NO. 10 DEPTH 18-20 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,w/calc & fer stains,slks,Hard,Gray & Brown

Tare No.	W24	Height	5.595 in.
Tare plus Wet Specimen	299.33 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	253.02 gm	Initial Area	6.290 sq in.
Water Weight	46.31 gm	Volume	35.194 cu in.
Tare Weight	42.80 gm	Volume of Solids	cu in.
Wet Specimen	1082.24 gm	Void Ratio	
Dry Specimen	886.87 gm	Saturation	%
Water Content	22.03 %	Dry Density	96.0 lb/cu ft
Specific Gravity of Solids			

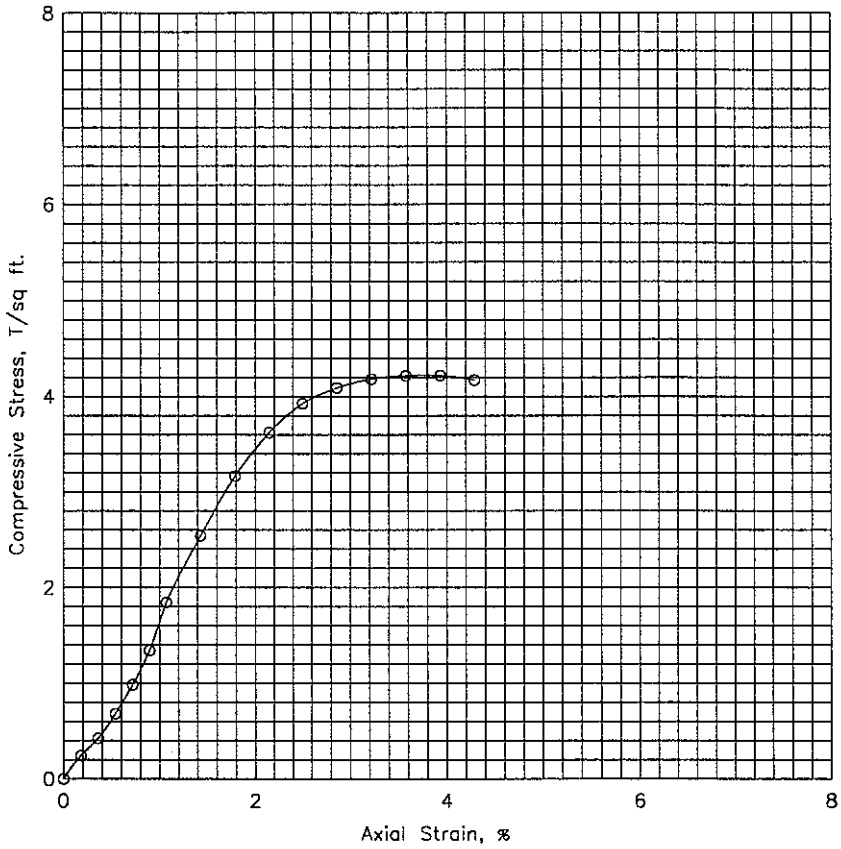
LL = 62 PL = 23 PI = 39

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	28.0	21.2	.002	6.30	.242
.3	20.	.020	49.0	37.1	.004	6.31	.423
.5	30.	.030	79.0	59.8	.005	6.32	.681
.7	40.	.040	114.0	86.3	.007	6.34	.981
.9	50.	.050	156.0	118.1	.009	6.35	1.340
1.0	60.	.060	215.0	162.8	.011	6.36	1.843
1.4	80.	.080	297.0	224.8	.014	6.38	2.537
1.7	100.	.100	372.0	281.6	.018	6.40	3.166
2.0	120.	.120	427.0	323.2	.021	6.43	3.621
2.3	140.	.140	465.0	352.0	.025	6.45	3.928
2.7	160.	.160	486.0	367.9	.029	6.48	4.091
3.0	180.	.180	499.0	377.7	.032	6.50	4.185
3.3	200.	.200	505.0	382.3	.036	6.52	4.219
3.6	220.	.220	507.0	383.8	.039	6.55	4.220
3.9	240.	.240	503.0	380.8	.043	6.57	4.172

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	22.0 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	96.0			
Time to failure, min		t_f	3.60			
Unconfined compressive strength, T/sq ft		q_u	4.22			
Undrained shear strength, T/sq ft		S_u	2.11			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,w/calc & fer stains,silks,Hard,Gray & Brown

LL	62	PL	23	PI	39	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-72 | Sample No. 10

Depth El 18-20 ft | Date 3/11/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/11/98

OJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-72 SAMPLE NO. 15 DEPTH 28-30 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,slks,Hard,Red & Gray

Tare No.	IB10	Height	5.595 in.
Tare plus Wet Specimen	246.71 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	203.52 gm	Initial Area	6.290 sq in.
Water Weight	43.19 gm	Volume	35.194 cu in.
Tare Weight	43.63 gm	Volume of Solids	cu in.
Wet Specimen	1095.98 gm	Void Ratio	
Dry Specimen	862.89 gm	Saturation	%
Water Content	27.01 %	Dry Density	93.4 lb/cu ft
Specific Gravity of Solids			

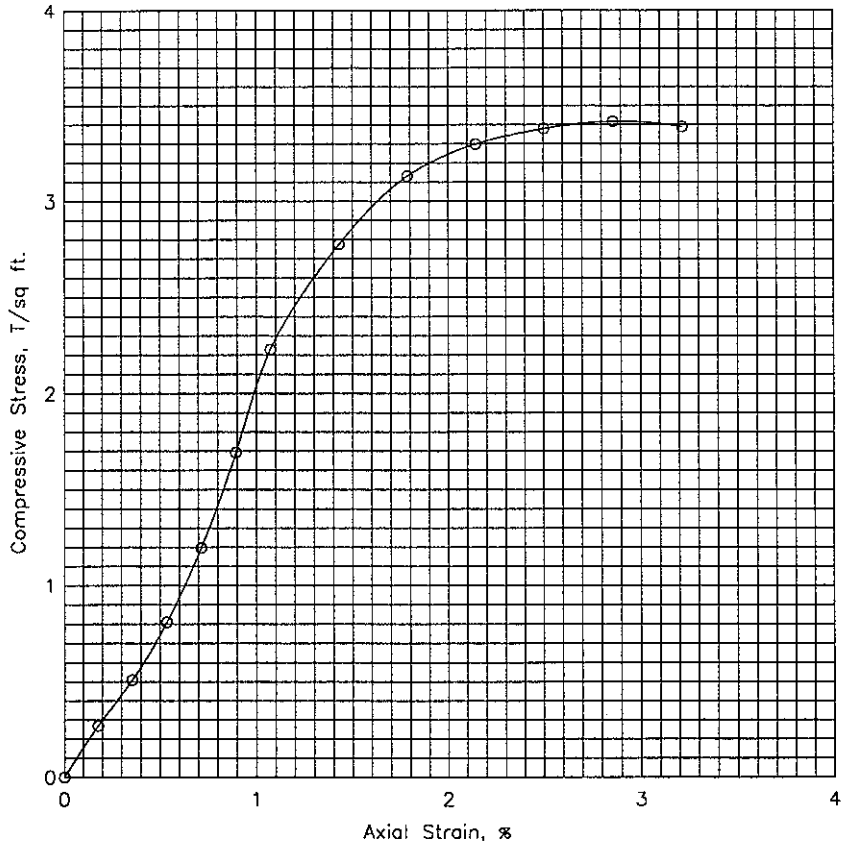
LL = 64 PL = 23 PI = 41

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	31.0	23.5	.002	6.30	.268
.4	20.	.020	59.0	44.7	.004	6.31	.509
.5	30.	.030	94.0	71.2	.005	6.32	.810
.7	40.	.040	139.0	105.2	.007	6.34	1.196
.9	50.	.050	197.0	149.1	.009	6.35	1.692
1.1	60.	.060	260.0	196.8	.011	6.36	2.229
1.4	80.	.080	325.0	246.0	.014	6.38	2.776
1.7	100.	.100	368.0	278.6	.018	6.40	3.132
2.0	120.	.120	389.0	294.5	.021	6.43	3.298
2.3	140.	.140	400.0	302.8	.025	6.45	3.379
2.6	160.	.160	406.0	307.3	.029	6.48	3.417
2.9	180.	.180	404.0	305.8	.032	6.50	3.388

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	27.0 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	93.4			
Time to failure, min		t_f	2.62			
Unconfined compressive strength, T/sq ft		q_u	3.42			
Undrained shear strength, T/sq ft		S_u	1.71			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,silks,Hard,Red & Gray

LL	64	PL	23	PI	41	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-72 | Sample No. 15

Depth El 28-30 ft | Date 3/11/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/11/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-72 SAMPLE NO. 23 DEPTH 44-46 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/calc nod,Hard,Yellowish gray

Tare No.	HP39	Height	5.595 in.
Tare plus Wet Specimen	237.53 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	207.45 gm	Initial Area	6.290 sq in.
Water Weight	30.08 gm	Volume	35.194 cu in.
Tare Weight	43.13 gm	Volume of Solids	cu in.
Wet Specimen	1189.43 gm	Void Ratio	
Dry Specimen	1005.39 gm	Saturation	%
Water Content	18.31 %	Dry Density	108.8 lb/cu ft

Specific Gravity of Solids
LL = 33 PL = 17 PI = 16

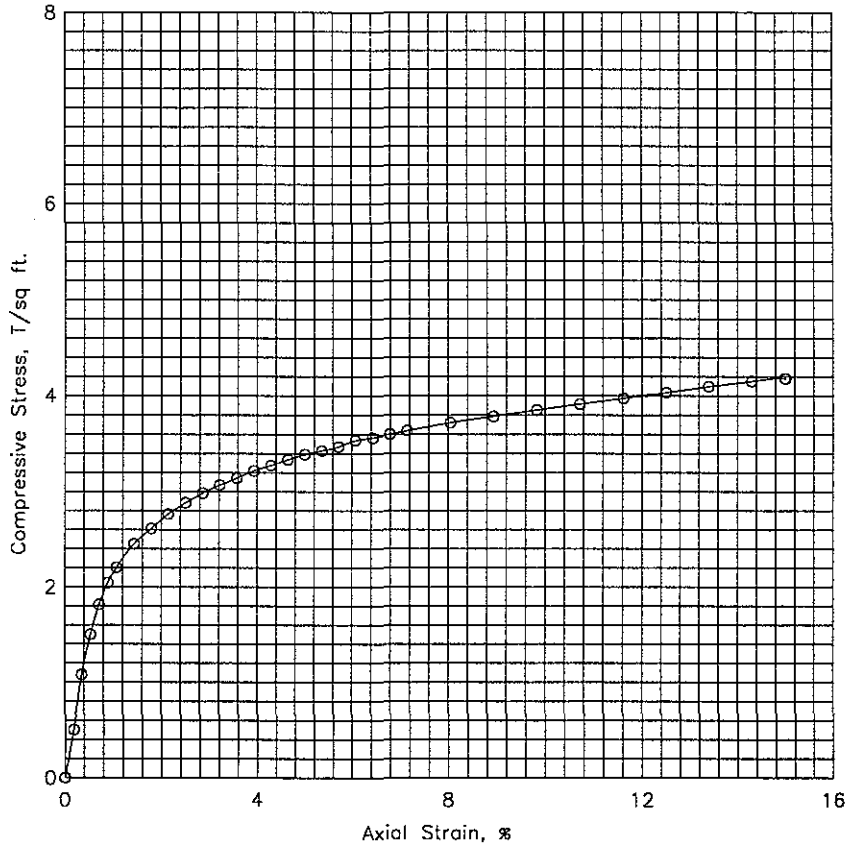
Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	58.0	43.9	.002	6.30	.502
.4	20.	.020	125.0	94.6	.004	6.31	1.079
.5	30.	.030	174.0	131.7	.005	6.32	1.500
.7	40.	.040	211.0	159.7	.007	6.34	1.815
.9	50.	.050	238.0	180.2	.009	6.35	2.044
1.1	60.	.060	257.0	194.5	.011	6.36	2.203
1.4	80.	.080	287.0	217.3	.014	6.38	2.451
1.7	100.	.100	307.0	232.4	.018	6.40	2.613
2.0	120.	.120	326.0	246.8	.021	6.43	2.764
2.3	140.	.140	341.0	258.1	.025	6.45	2.881
2.6	160.	.160	354.5	268.4	.029	6.48	2.984
2.9	180.	.180	366.0	277.1	.032	6.50	3.069
3.3	200.	.200	376.0	284.6	.036	6.52	3.142
3.4	220.	.220	387.0	293.0	.039	6.55	3.221
3.7	240.	.240	395.0	299.0	.043	6.57	3.276
4.0	260.	.260	404.0	305.8	.046	6.60	3.338
4.3	280.	.280	412.0	311.9	.050	6.62	3.391
4.7	300.	.300	418.5	316.8	.054	6.65	3.432
5.0	320.	.320	425.0	321.7	.057	6.67	3.472
5.3	340.	.340	435.0	329.3	.061	6.70	3.540
5.6	360.	.360	440.0	333.1	.064	6.72	3.567
5.9	380.	.380	446.0	337.6	.068	6.75	3.602
6.2	400.	.400	452.0	342.2	.071	6.77	3.637
6.9	450.	.450	467.0	353.5	.080	6.84	3.721
7.7	500.	.500	480.0	363.4	.089	6.91	3.787
8.3	550.	.550	493.0	373.2	.098	6.98	3.852

9.0	600.	.600	506.0	383.0	.107	7.05	3.914
9.7	650.	.650	519.0	392.9	.116	7.12	3.975
10.4	700.	.700	532.0	402.7	.125	7.19	4.033
11.1	750.	.750	546.0	413.3	.134	7.26	4.097
11.9	800.	.800	559.0	423.2	.143	7.34	4.151
12.6	839.	.839	567.5	429.6	.150	7.40	4.180
12.6	840.	.840	567.5	429.6	.150	7.40	4.179

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	18.3 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	108.8			
Time to failure, min		t_f	12.60			
Unconfined compressive strength, T/sq ft		q_u	4.18			
Undrained shear strength, T/sq ft		S_u	2.09			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,w/calc nod,Hard,Yellowish gray

LL	33	PL	17	PI	16	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-72 | Sample No. 23

Depth 44-46 ft | Date 3/11/98
El

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/10/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-73 SAMPLE NO. 4 DEPTH 6-8 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/sand seams,Stiff,Gray & Brown

Tare No.	KL33	Height	5.595 in.
Tare plus Wet Specimen	270.21 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	238.58 gm	Initial Area	6.290 sq in.
Water Weight	31.63 gm	Volume	35.194 cu in.
Tare Weight	42.88 gm	Volume of Solids	cu in.
Wet Specimen	1159.24 gm	Void Ratio	
Dry Specimen	997.95 gm	Saturation	%
Water Content	16.16 %	Dry Density	108.0 lb/cu ft
Specific Gravity of Solids			

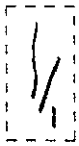
LL = 23 PL = 14 PI = 9

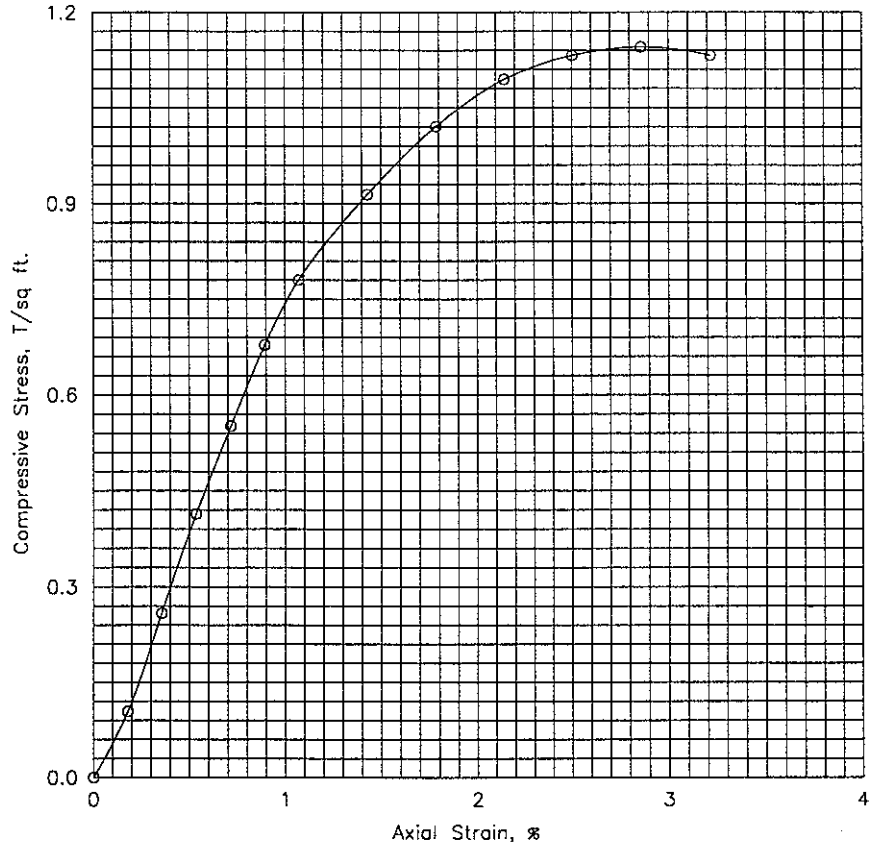
Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	12.0	9.1	.002	6.30	.104
.4	20.	.020	30.0	22.7	.004	6.31	.259
.5	30.	.030	48.0	36.3	.005	6.32	.414
.7	40.	.040	64.0	48.4	.007	6.34	.551
.9	50.	.050	79.0	59.8	.009	6.35	.678
1.1	60.	.060	91.0	68.9	.011	6.36	.780
1.4	80.	.080	107.0	81.0	.014	6.38	.914
1.7	100.	.100	120.0	90.8	.018	6.40	1.021
2.0	120.	.120	129.0	97.7	.021	6.43	1.094
2.3	140.	.140	134.0	101.4	.025	6.45	1.132
2.6	160.	.160	136.0	103.0	.029	6.48	1.145
2.9	180.	.180	135.0	102.2	.032	6.50	1.132

Job No. 114008614

Failure Sketches





☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	16.2 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	108.0			
Time to failure, min		t_f	2.62			
Unconfined compressive strength, T/sq ft		q_u	1.14			
Undrained shear strength, T/sq ft		S_u	.57			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,w/sand seams,Stiff,Gray & Brown

LL	23	PL	14	PI	9	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-73 | Sample No. 4

Depth El 6-8 ft | Date 3/10/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/10/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-73 SAMPLE NO. 9 DEPTH 16-18 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,w/calc nod,Hard,Red

Tare No.	HP19	Height	5.595 in.
Tare plus Wet Specimen	231.59 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	191.17 gm	Initial Area	6.290 sq in.
Water Weight	40.42 gm	Volume	35.194 cu in.
Tare Weight	43.16 gm	Volume of Solids	cu in.
Wet Specimen	1129.82 gm	Void Ratio	
Dry Specimen	887.46 gm	Saturation	%
Water Content	27.31 %	Dry Density	96.1 lb/cu ft
Specific Gravity of Solids			

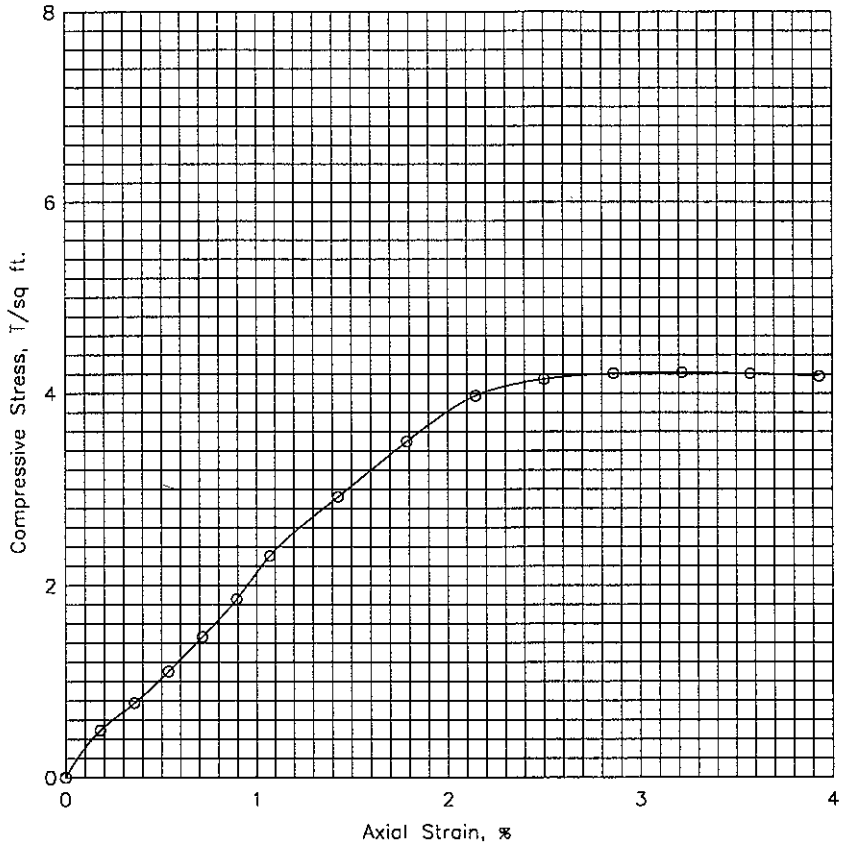
LL = 61 PL = 21 PI = 40

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	57.0	43.1	.002	6.30	.493
.3	20.	.020	90.0	68.1	.004	6.31	.777
.5	30.	.030	128.0	96.9	.005	6.32	1.103
.7	40.	.040	170.0	128.7	.007	6.34	1.463
.9	50.	.050	216.0	163.5	.009	6.35	1.855
1.0	60.	.060	269.0	203.6	.011	6.36	2.306
1.4	80.	.080	342.0	258.9	.014	6.38	2.921
1.6	100.	.100	411.0	311.1	.018	6.40	3.498
2.0	120.	.120	469.0	355.0	.021	6.43	3.977
2.3	140.	.140	491.0	371.7	.025	6.45	4.148
2.6	160.	.160	500.0	378.5	.029	6.48	4.209
2.9	180.	.180	503.0	380.8	.032	6.50	4.218
3.3	200.	.200	503.5	381.1	.036	6.52	4.207
3.6	220.	.220	502.0	380.0	.039	6.55	4.179

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	27.3 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	96.1			
Time to failure, min		t_f	2.93			
Unconfined compressive strength, T/sq ft		q_u	4.22			
Undrained shear strength, T/sq ft		S_u	2.11			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,w/calc nod,Hard,Red

LL	61	PL	21	PI	40	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-73 | Sample No. 9

Depth El 16-18 ft | Date 3/10/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/10/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-73 SAMPLE NO. 18 DEPTH 34-36 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,w/calc nod,Hard,Red & Gray

Tare No.	KL24	Height	5.595 in.
Tare plus Wet Specimen	253.07 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	209.23 gm	Initial Area	6.290 sq in.
Water Weight	43.84 gm	Volume	35.194 cu in.
Tare Weight	44.30 gm	Volume of Solids	cu in.
Wet Specimen	1140.86 gm	Void Ratio	
Dry Specimen	901.29 gm	Saturation	%
Water Content	26.58 %	Dry Density	97.6 lb/cu ft
Specific Gravity of Solids			

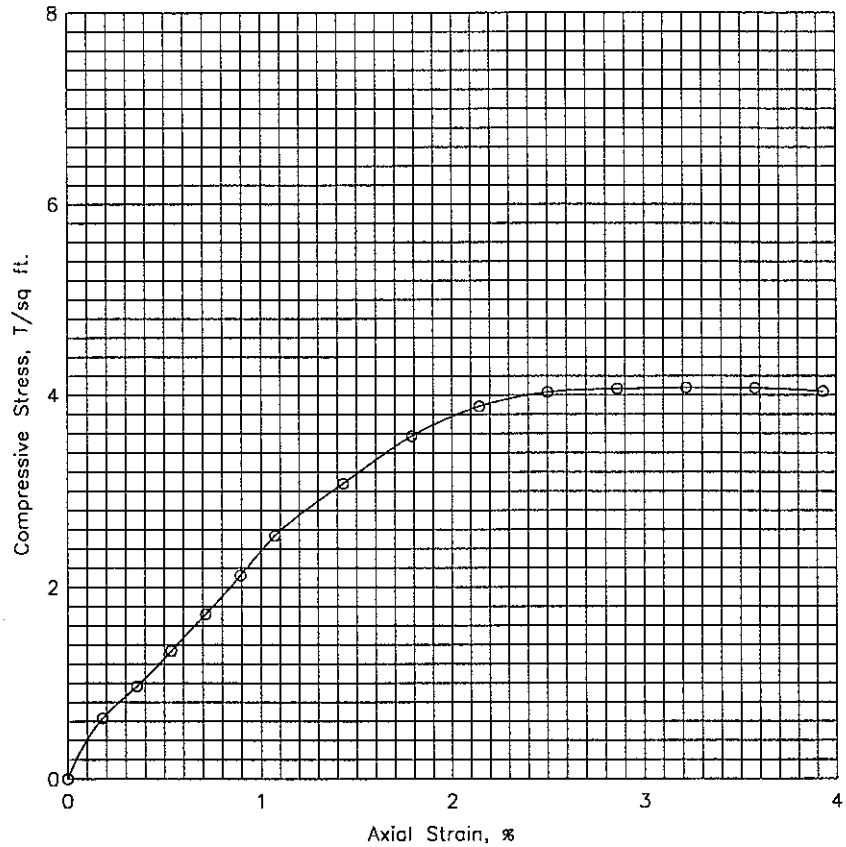
LL = 64 PL = 22 PI = 42

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	73.0	55.3	.002	6.30	.631
.4	20.	.020	112.0	84.8	.004	6.31	.967
.5	30.	.030	155.0	117.3	.005	6.32	1.336
.7	40.	.040	200.0	151.4	.007	6.34	1.721
.9	50.	.050	247.0	187.0	.009	6.35	2.121
1.0	60.	.060	296.0	224.1	.011	6.36	2.537
1.4	80.	.080	361.0	273.3	.014	6.38	3.083
1.7	100.	.100	420.0	317.9	.018	6.40	3.574
2.0	120.	.120	458.0	346.7	.021	6.43	3.883
2.3	140.	.140	477.0	361.1	.025	6.45	4.030
2.6	160.	.160	483.0	365.6	.029	6.48	4.065
2.9	180.	.180	486.0	367.9	.032	6.50	4.076
3.3	200.	.200	487.5	369.0	.036	6.52	4.073
3.6	220.	.220	485.0	367.1	.039	6.55	4.037

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	26.6 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	97.6			
Time to failure, min		t_f	2.93			
Unconfined compressive strength, T/sq ft		q_u	4.08			
Undrained shear strength, T/sq ft		S_u	2.04			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,w/calc nod,Hard,Red & Gray

LL	64	PL	22	PI	42	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-73 | Sample No. 18

Depth El 34-36 ft | Date 3/10/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/2/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-74 SAMPLE NO. 4 DEPTH 6-8 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/fer nod,Very stiff,Yellowish gray

Tare No.	HP44	Height	5.595 in.
Tare plus Wet Specimen	400.01 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	359.17 gm	Initial Area	6.290 sq in.
Water Weight	40.84 gm	Volume	35.194 cu in.
Tare Weight	43.22 gm	Volume of Solids	cu in.
Wet Specimen	1153.11 gm	Void Ratio	
Dry Specimen	1021.12 gm	Saturation	%
Water Content	12.93 %	Dry Density	110.5 lb/cu ft
Specific Gravity of Solids			

LL = 41 PL = 18 PI = 23

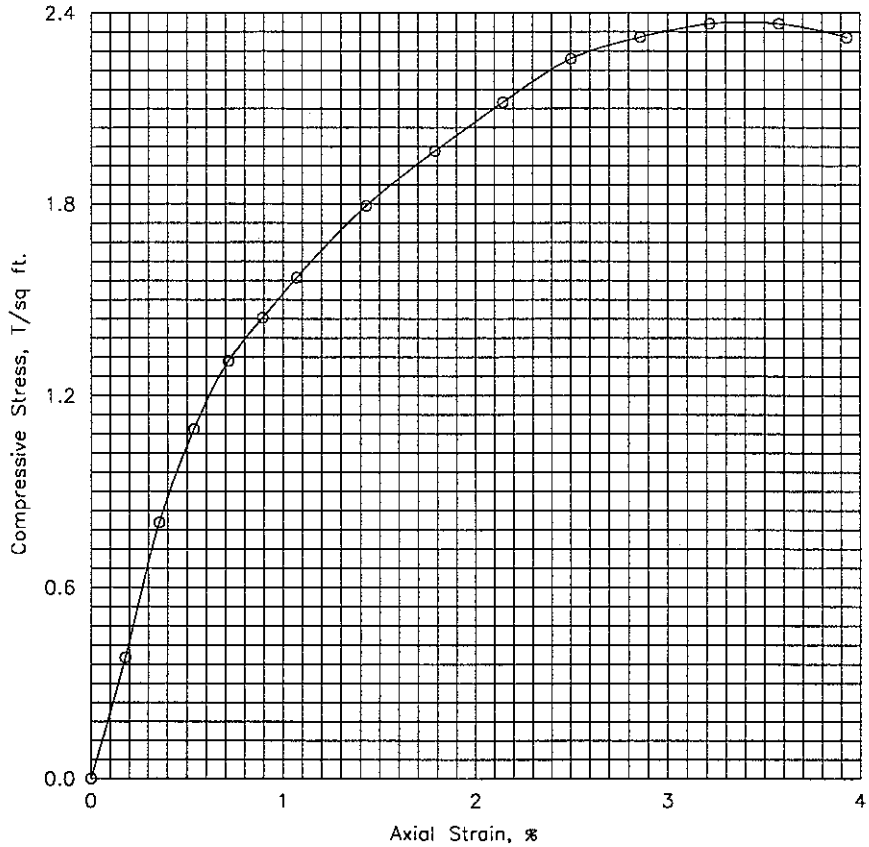
Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	44.0	33.3	.002	6.30	.381
.3	20.	.020	93.0	70.4	.004	6.31	.803
.5	30.	.030	127.0	96.1	.005	6.32	1.095
.7	40.	.040	152.0	115.1	.007	6.34	1.308
.9	50.	.050	168.0	127.2	.009	6.35	1.443
1.0	60.	.060	183.0	138.5	.011	6.36	1.569
1.4	80.	.080	210.0	159.0	.014	6.38	1.794
1.7	100.	.100	231.0	174.9	.018	6.40	1.966
2.0	120.	.120	250.0	189.3	.021	6.43	2.120
2.3	140.	.140	267.0	202.1	.025	6.45	2.256
2.6	160.	.160	276.0	208.9	.029	6.48	2.323
2.9	180.	.180	282.0	213.5	.032	6.50	2.365
3.2	200.	.200	283.0	214.2	.036	6.52	2.365
3.5	220.	.220	279.0	211.2	.039	6.55	2.322

Job No. 114008614

Failure Sketches

☐ Controlled stress
☒ Controlled strain



Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	12.9 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	110.5			
Time to failure, min		t_f	2.90			
Unconfined compressive strength, T/sq ft		q_u	2.36			
Undrained shear strength, T/sq ft		S_u	1.18			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,w/fer nod,Very stiff,Yellowish gray

LL	41	PL	18	PI	23	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-74 | Sample No. 4

Depth El 6-8 ft | Date 3/2/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/2/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-74 SAMPLE NO. 10 DEPTH 18-20 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,w/sand seams,Hard,Gray & Red

Tare No.	IB21	Height	5.595 in.
Tare plus Wet Specimen	496.55 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	407.37 gm	Initial Area	6.290 sq in.
Water Weight	89.18 gm	Volume	35.194 cu in.
Tare Weight	42.89 gm	Volume of Solids	cu in.
Wet Specimen	1106.77 gm	Void Ratio	
Dry Specimen	889.20 gm	Saturation	%
Water Content	24.47 %	Dry Density	96.3 lb/cu ft

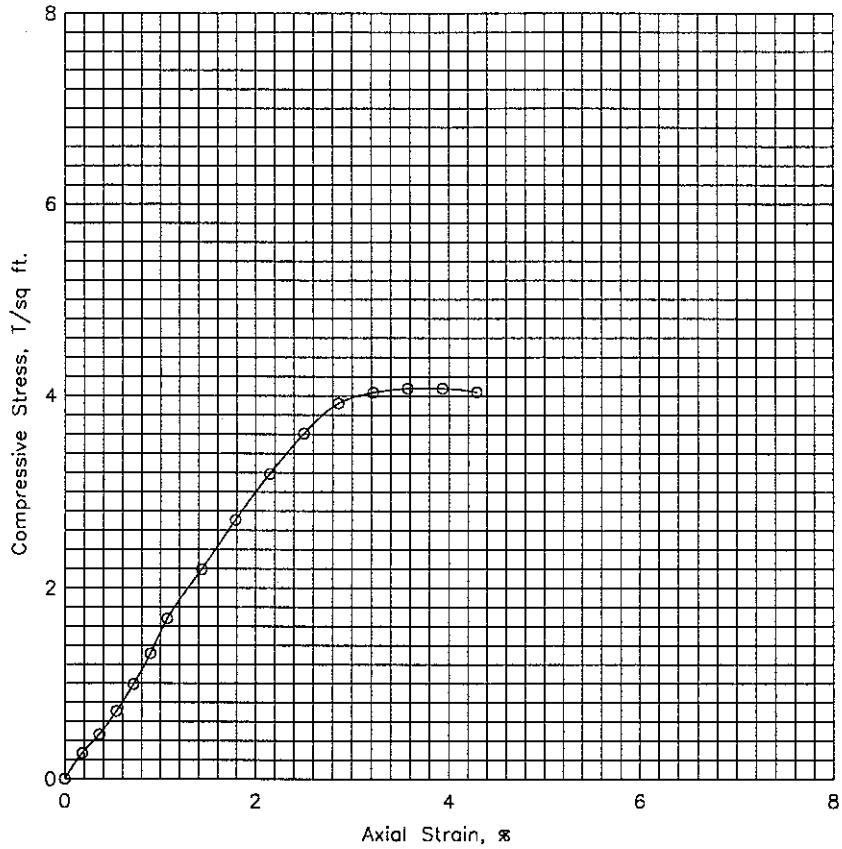
Specific Gravity of Solids
LL = 81 PL = 31 PI = 50

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	31.0	23.5	.002	6.30	.268
.3	20.	.020	54.0	40.9	.004	6.31	.466
.5	30.	.030	82.0	62.1	.005	6.32	.707
.7	40.	.040	115.0	87.1	.007	6.34	.989
.9	50.	.050	153.0	115.8	.009	6.35	1.314
1.1	60.	.060	196.0	148.4	.011	6.36	1.680
1.4	80.	.080	257.0	194.5	.014	6.38	2.195
1.7	100.	.100	318.0	240.7	.018	6.40	2.706
2.0	120.	.120	376.0	284.6	.021	6.43	3.188
2.3	140.	.140	427.0	323.2	.025	6.45	3.607
2.7	160.	.160	466.0	352.8	.029	6.48	3.922
3.0	180.	.180	481.0	364.1	.032	6.50	4.034
3.3	200.	.200	488.0	369.4	.036	6.52	4.077
3.6	220.	.220	490.0	370.9	.039	6.55	4.079
4.0	240.	.240	487.0	368.7	.043	6.57	4.039

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	24.5 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	96.3			
Time to failure, min		t_f	3.63			
Unconfined compressive strength, T/sq ft		q_u	4.08			
Undrained shear strength, T/sq ft		S_u	2.04			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,w/sand seams,Hard,Gray & Red

LL	81	PL	31	PI	50	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-74 | Sample No. 10

Depth El 18-20 ft | Date 3/2/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/2/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-74 SAMPLE NO. 12 DEPTH 22-24 ft

SPECIMEN NO. 1

CLASSIFICATION
Silty Clay,Stiff,Red & Gray

Tare No.	IB12	Height	5.595 in.
Tare plus Wet Specimen	386.56 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	312.31 gm	Initial Area	6.290 sq in.
Water Weight	74.25 gm	Volume	35.194 cu in.
Tare Weight	43.34 gm	Volume of Solids	cu in.
Wet Specimen	1111.04 gm	Void Ratio	
Dry Specimen	870.68 gm	Saturation	%
Water Content	27.61 %	Dry Density	94.2 lb/cu ft

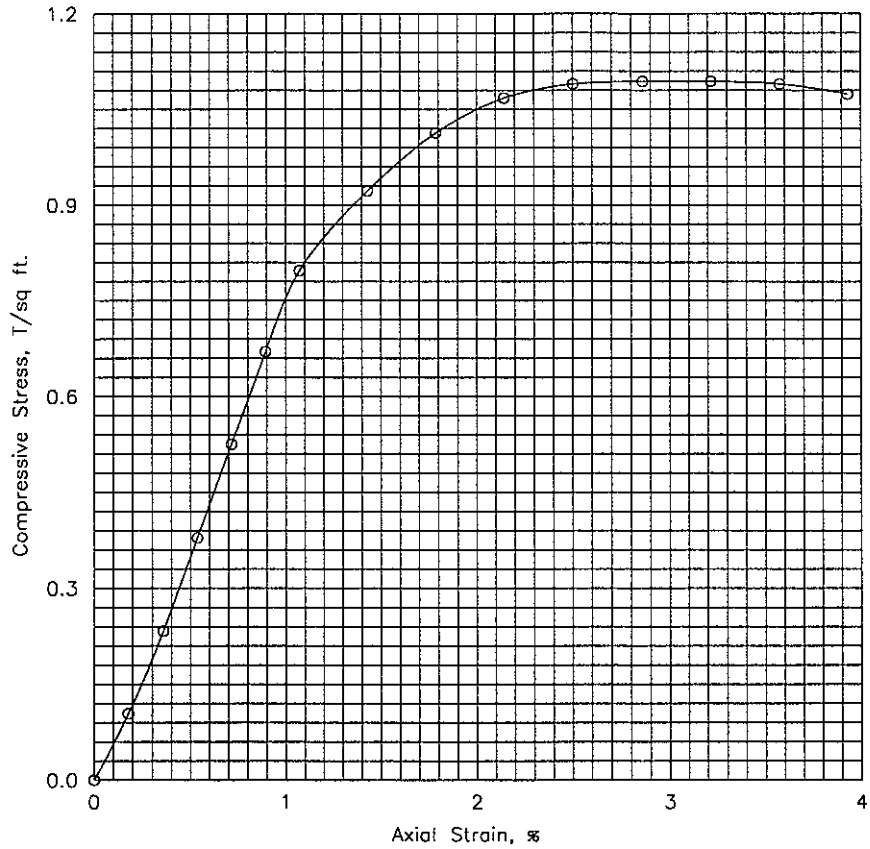
Specific Gravity of Solids
LL = 32 PL = 17 PI = 15

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Lapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	12.0	9.1	.002	6.30	.104
.4	20.	.020	27.0	20.4	.004	6.31	.233
.5	30.	.030	44.0	33.3	.005	6.32	.379
.7	40.	.040	61.0	46.2	.007	6.34	.525
.9	50.	.050	78.0	59.0	.009	6.35	.670
1.0	60.	.060	93.0	70.4	.011	6.36	.797
1.4	80.	.080	108.0	81.8	.014	6.38	.922
1.7	100.	.100	119.0	90.1	.018	6.40	1.013
2.0	120.	.120	126.0	95.4	.021	6.43	1.068
2.3	140.	.140	129.0	97.7	.025	6.45	1.090
2.6	160.	.160	130.0	98.4	.029	6.48	1.094
3.0	180.	.180	130.5	98.8	.032	6.50	1.094
3.3	200.	.200	130.5	98.8	.036	6.52	1.090
3.6	220.	.220	129.0	97.7	.039	6.55	1.074

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	27.6 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	94.2			
Time to failure, min		t_f	2.97			
Unconfined compressive strength, T/sq ft		q_u	1.09			
Undrained shear strength, T/sq ft		S_u	.55			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Silty Clay,Stiff,Red & Gray

LL	32	PL	17	PI	15	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-74 | Sample No. 12

Depth 22-24 ft | Date 3/2/98
El

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/5/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-75 SAMPLE NO. 5 DEPTH 8-10 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/fer nod & fer stains,Hard,Yellowish gray

Tare No.	IB20	Height	5.595 in.
Tare plus Wet Specimen	301.89 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	274.53 gm	Initial Area	6.290 sq in.
Water Weight	27.36 gm	Volume	35.194 cu in.
Tare Weight	43.32 gm	Volume of Solids	cu in.
Wet Specimen	1157.67 gm	Void Ratio	
Dry Specimen	1035.17 gm	Saturation	%
Water Content	11.83 %	Dry Density	112.1 lb/cu ft
Specific Gravity of Solids			

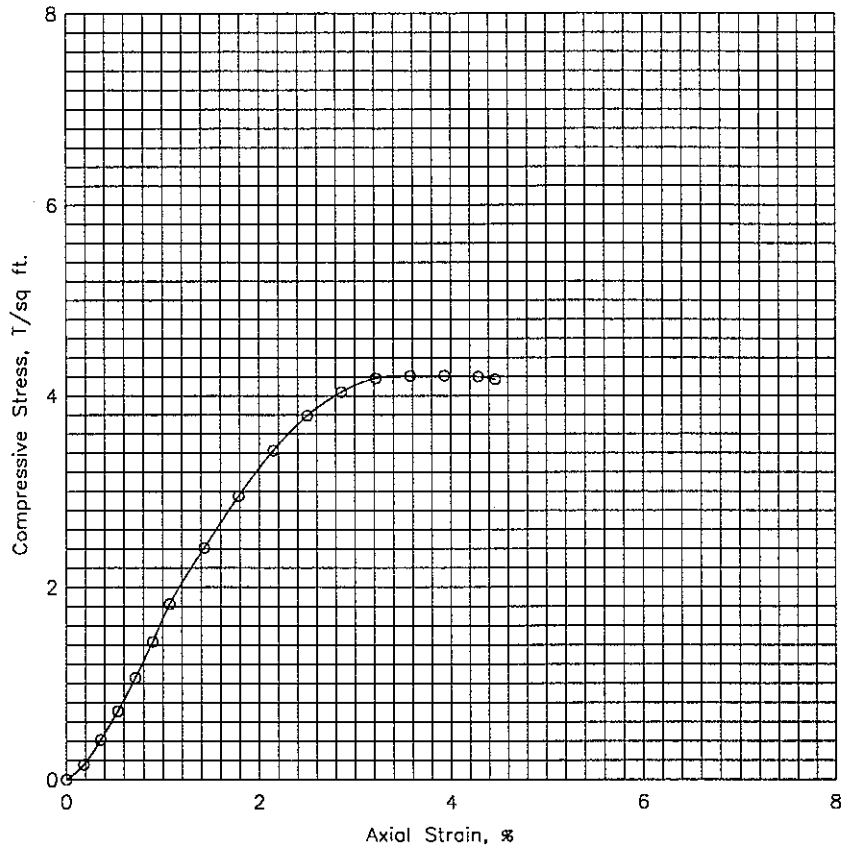
LL = 34 PL = 16 PI = 18

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	18.0	13.6	.002	6.30	.156
.3	20.	.020	48.0	36.3	.004	6.31	.414
.5	30.	.030	83.0	62.8	.005	6.32	.715
.7	40.	.040	123.0	93.1	.007	6.34	1.058
.9	50.	.050	167.0	126.4	.009	6.35	1.434
1.0	60.	.060	213.0	161.2	.011	6.36	1.826
1.4	80.	.080	282.0	213.5	.014	6.38	2.409
1.7	100.	.100	347.0	262.7	.018	6.40	2.953
2.0	120.	.120	404.0	305.8	.021	6.43	3.426
2.3	140.	.140	449.0	339.9	.025	6.45	3.793
2.7	160.	.160	480.0	363.4	.029	6.48	4.040
3.0	180.	.180	499.0	377.7	.032	6.50	4.185
3.3	200.	.200	504.0	381.5	.036	6.52	4.211
3.6	220.	.220	506.0	383.0	.039	6.55	4.212
4.0	240.	.240	506.5	383.4	.043	6.57	4.201
4.2	250.	.250	504.0	381.5	.045	6.58	4.172

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.		1			
Type of Specimen		Undisturbed			
Initial: Water content	w_0	11.8 %	%	%	%
Initial: Void ratio	e_0				
Initial: Saturation	S_0	%	%	%	%
Initial: Dry density, lb/cu ft	γ_d	112.1			
Time to failure, min	t_f	3.62			
Unconfined compressive strength, T/sq ft	q_u	4.21			
Undrained shear strength, T/sq ft	S_u	2.11			
Sensitivity ratio	S_t				
Initial specimen diameter, in.	D_0	2.830			
Initial specimen height, in.	H_0	5.595			

Classification Sandy Clay,w/fer nod & fer stains,Hard,Yellowish gray

LL	34	PL	16	PI	18	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-75 | Sample No. 5

Depth El 8-10 ft | Date 3/5/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/5/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-75 SAMPLE NO. 11 DEPTH 20-22 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,w/calc & fer nod,slks,Very stiff,Red & Gray

Tare No.	AZ1	Height	5.595 in.
Tare plus Wet Specimen	327.34 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	270.70 gm	Initial Area	6.290 sq in.
Water Weight	56.64 gm	Volume	35.194 cu in.
Tare Weight	42.82 gm	Volume of Solids	cu in.
Wet Specimen	1136.75 gm	Void Ratio	
Dry Specimen	910.45 gm	Saturation	%
Water Content	24.86 %	Dry Density	98.6 lb/cu ft
Specific Gravity of Solids			

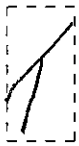
LL = 61 PL = 24 PI = 37

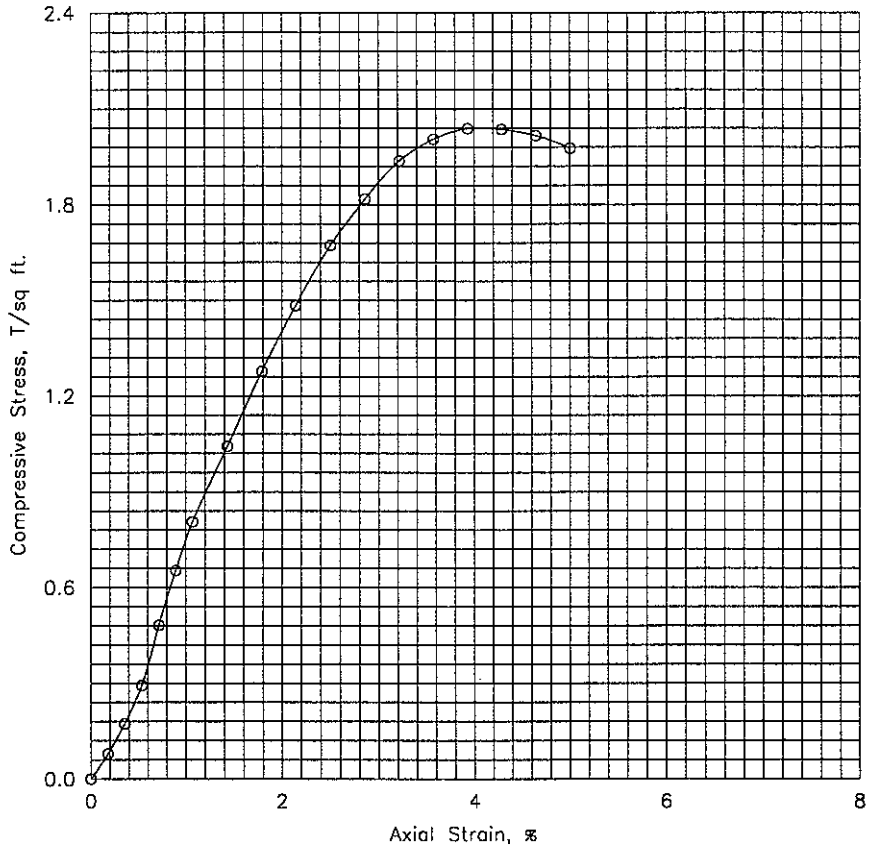
Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	9.0	6.8	.002	6.30	.078
.4	20.	.020	20.0	15.1	.004	6.31	.173
.5	30.	.030	34.0	25.7	.005	6.32	.293
.7	40.	.040	56.0	42.4	.007	6.34	.482
.9	50.	.050	76.0	57.5	.009	6.35	.653
1.1	60.	.060	94.0	71.2	.011	6.36	.806
1.4	80.	.080	122.0	92.4	.014	6.38	1.042
1.7	100.	.100	150.0	113.6	.018	6.40	1.277
2.1	120.	.120	175.0	132.5	.021	6.43	1.484
2.4	140.	.140	198.0	149.9	.025	6.45	1.673
2.7	160.	.160	216.0	163.5	.029	6.48	1.818
3.0	180.	.180	231.0	174.9	.032	6.50	1.937
3.3	200.	.200	240.0	181.7	.036	6.52	2.005
3.7	220.	.220	245.0	185.5	.039	6.55	2.039
4.0	240.	.240	245.5	185.8	.043	6.57	2.036
4.3	260.	.260	244.0	184.7	.046	6.60	2.016
4.7	280.	.280	240.0	181.7	.050	6.62	1.976

Job No. 114008614

Failure Sketches





☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	24.9 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	98.6			
Time to failure, min		t_f	3.65			
Unconfined compressive strength, T/sq ft		q_u	2.04			
Undrained shear strength, T/sq ft		S_u	1.02			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,w/calc & fer nod,slks,Very stiff,Red & Gray

LL	61	PL	24	PI	37	G_s

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-75 | Sample No. 11

Depth El 20-22 ft | Date 3/5/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/1/98

PROJECT Greens Bayou

EA Houston, Texas

BORING NO. 97-76 SAMPLE NO. 3 DEPTH 4-6 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/calc & fer nod,Very stiff,Yellowish Gray

Tare No.	HP24	Height	5.595 in.
Tare plus Wet Specimen	486.43 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	386.28 gm	Initial Area	6.290 sq in.
Water Weight	100.15 gm	Volume	35.194 cu in.
Tare Weight	43.28 gm	Volume of Solids	cu in.
Wet Specimen	1197.50 gm	Void Ratio	
Dry Specimen	926.87 gm	Saturation	%
Water Content	29.20 %	Dry Density	100.3 lb/cu ft
Specific Gravity of Solids			

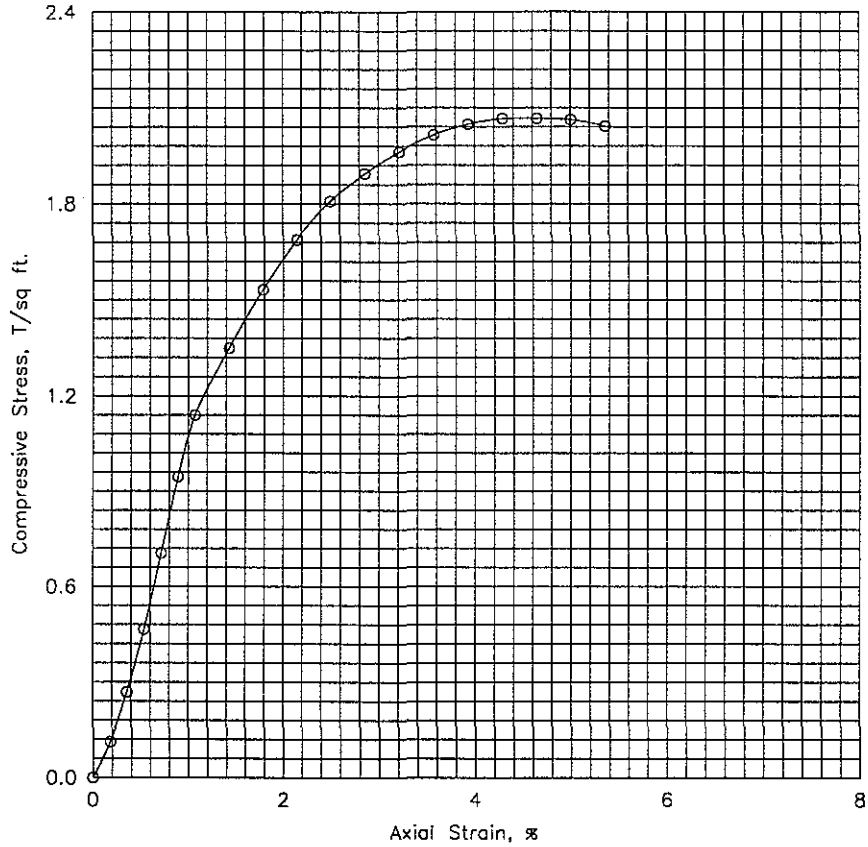
LL = 36 PL = 17 PI = 19

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	13.0	9.8	.002	6.30	.112
.3	20.	.020	31.0	23.5	.004	6.31	.268
.5	30.	.030	54.0	40.9	.005	6.32	.465
.7	40.	.040	82.0	62.1	.007	6.34	.705
.9	50.	.050	110.0	83.3	.009	6.35	.945
1.0	60.	.060	133.0	100.7	.011	6.36	1.140
1.4	80.	.080	158.0	119.6	.014	6.38	1.349
1.7	100.	.100	180.0	136.3	.018	6.40	1.532
2.0	120.	.120	199.0	150.6	.021	6.43	1.687
2.3	140.	.140	214.0	162.0	.025	6.45	1.808
2.6	160.	.160	225.0	170.3	.029	6.48	1.894
4.0	180.	.180	234.0	177.1	.032	6.50	1.962
3.3	200.	.200	241.0	182.4	.036	6.52	2.014
3.6	220.	.220	246.0	186.2	.039	6.55	2.048
4.0	240.	.240	249.0	188.5	.043	6.57	2.065
4.3	260.	.260	250.0	189.3	.046	6.60	2.066
4.6	280.	.280	250.5	189.6	.050	6.62	2.062
4.9	300.	.300	249.0	188.5	.054	6.65	2.042

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	29.2 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	100.3			
Time to failure, min		t_f	4.27			
Unconfined compressive strength, T/sq ft		q_u	2.07			
Undrained shear strength, T/sq ft		S_u	1.03			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,w/calc & fer nod,Very stiff,Yellowish Gray

LL	36	PL	17	PI	19	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-76 | Sample No. 3

Depth El 4-6 ft | Date 3/1/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

JOB NO. 114008614 DATE 3/1/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-76 SAMPLE NO. 13 DEPTH 24-26 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,w/fer stains,slks,Hard,Red & Gray

Tare No.	WB2	Height	5.595 in.
Tare plus Wet Specimen	464.72 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	392.88 gm	Initial Area	6.290 sq in.
Water Weight	71.84 gm	Volume	35.194 cu in.
Tare Weight	43.40 gm	Volume of Solids	cu in.
Wet Specimen	1140.11 gm	Void Ratio	
Dry Specimen	945.71 gm	Saturation	%
Water Content	20.56 %	Dry Density	102.4 lb/cu ft
Specific Gravity of Solids			

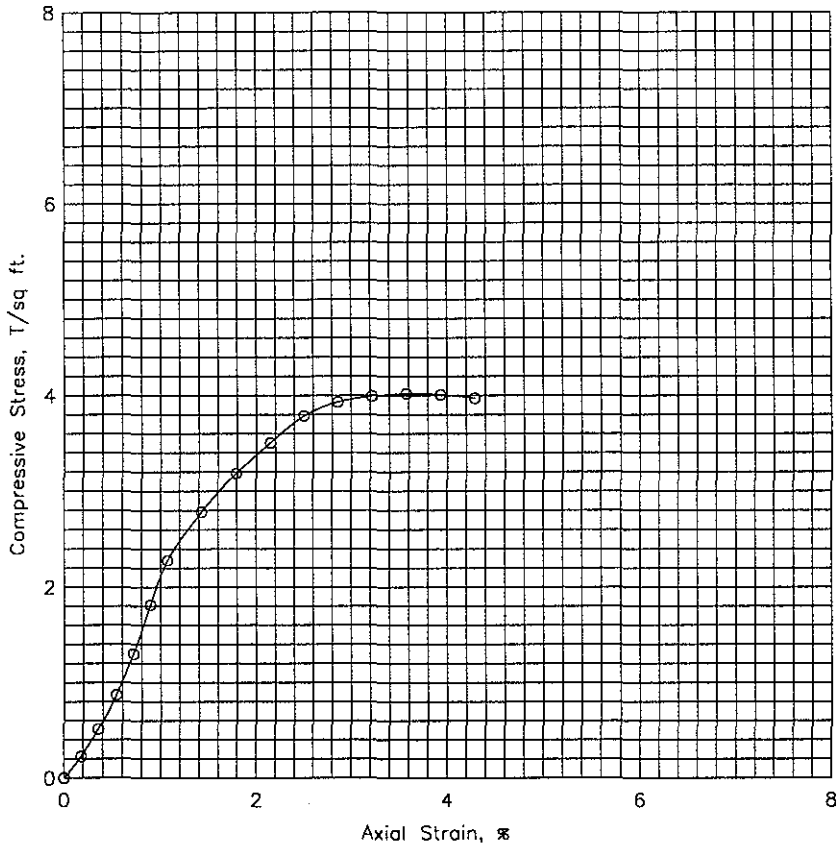
LL = 62 PL = 26 PI = 36

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	26.0	19.7	.002	6.30	.225
.3	20.	.020	59.0	44.7	.004	6.31	.509
.5	30.	.030	101.0	76.5	.005	6.32	.870
.7	40.	.040	151.0	114.3	.007	6.34	1.299
.9	50.	.050	211.0	159.7	.009	6.35	1.812
1.0	60.	.060	266.0	201.4	.011	6.36	2.280
1.3	80.	.080	326.0	246.8	.014	6.38	2.784
1.6	100.	.100	374.0	283.1	.018	6.40	3.183
2.0	120.	.120	413.0	312.6	.021	6.43	3.502
2.3	140.	.140	448.0	339.1	.025	6.45	3.785
2.6	160.	.160	467.0	353.5	.029	6.48	3.931
4.0	180.	.180	476.0	360.3	.032	6.50	3.992
3.3	200.	.200	481.0	364.1	.036	6.52	4.019
3.6	220.	.220	481.5	364.5	.039	6.55	4.008
4.0	240.	.240	479.0	362.6	.043	6.57	3.972

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	20.6 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	102.4			
Time to failure, min		t_f	3.30			
Unconfined compressive strength, T/sq ft		q_u	4.02			
Undrained shear strength, T/sq ft		S_u	2.01			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,w/fer stains,slks,Hard,Red & Gray

LL	62	PL	26	PI	36	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-76 | Sample No. 13

Depth El 24-26 ft | Date 3/1/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/2/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-77 SAMPLE NO. 4 DEPTH 6-8 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,Very stiff,Gray

Tare No.	HP26	Height	5.595 in.
Tare plus Wet Specimen	417.24 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	367.05 gm	Initial Area	6.290 sq in.
Water Weight	50.19 gm	Volume	35.194 cu in.
Tare Weight	43.17 gm	Volume of Solids	cu in.
Wet Specimen	1138.11 gm	Void Ratio	
Dry Specimen	985.41 gm	Saturation	%
Water Content	15.50 %	Dry Density	106.7 lb/cu ft

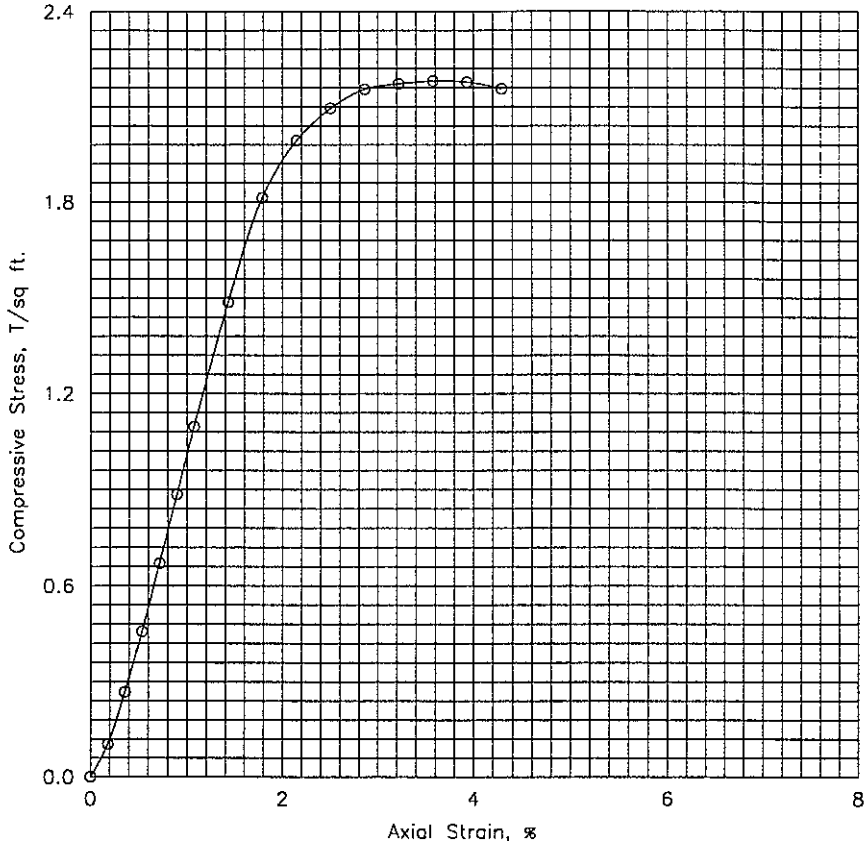
Specific Gravity of Solids
LL = 25 PL = 17 PI = 8

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Lapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	12.0	9.1	.002	6.30	.104
.3	20.	.020	31.0	23.5	.004	6.31	.268
.5	30.	.030	53.0	40.1	.005	6.32	.457
.7	40.	.040	78.0	59.0	.007	6.34	.671
.9	50.	.050	103.0	78.0	.009	6.35	.885
1.0	60.	.060	128.0	96.9	.011	6.36	1.097
1.4	80.	.080	174.0	131.7	.014	6.38	1.486
1.7	100.	.100	213.0	161.2	.018	6.40	1.813
2.0	120.	.120	235.0	177.9	.021	6.43	1.993
2.3	140.	.140	248.0	187.7	.025	6.45	2.095
2.6	160.	.160	256.0	193.8	.029	6.48	2.155
4.0	180.	.180	259.0	196.1	.032	6.50	2.172
3.3	200.	.200	261.0	197.6	.036	6.52	2.181
3.7	220.	.220	261.5	198.0	.039	6.55	2.177
4.0	240.	.240	260.0	196.8	.043	6.57	2.156

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	15.5 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	106.7			
Time to failure, min		t_f	3.32			
Unconfined compressive strength, T/sq ft		q_u	2.18			
Undrained shear strength, T/sq ft		S_u	1.09			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,Very stiff,Gray

LL	25	PL	17	PI	8	G_s

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-77 | Sample No. 4

Depth El 6-8 ft | Date 3/2/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/2/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-77 SAMPLE NO. 9 DEPTH 16-18 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,w/silt & sand seams,Very stiff,Red & Gray

Tare No.	RR	Height	5.595 in.
Tare plus Wet Specimen	439.50 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	365.08 gm	Initial Area	6.290 sq in.
Water Weight	74.42 gm	Volume	35.194 cu in.
Tare Weight	43.45 gm	Volume of Solids	cu in.
Wet Specimen	1115.98 gm	Void Ratio	
Dry Specimen	906.28 gm	Saturation	%
Water Content	23.14 %	Dry Density	98.1 lb/cu ft

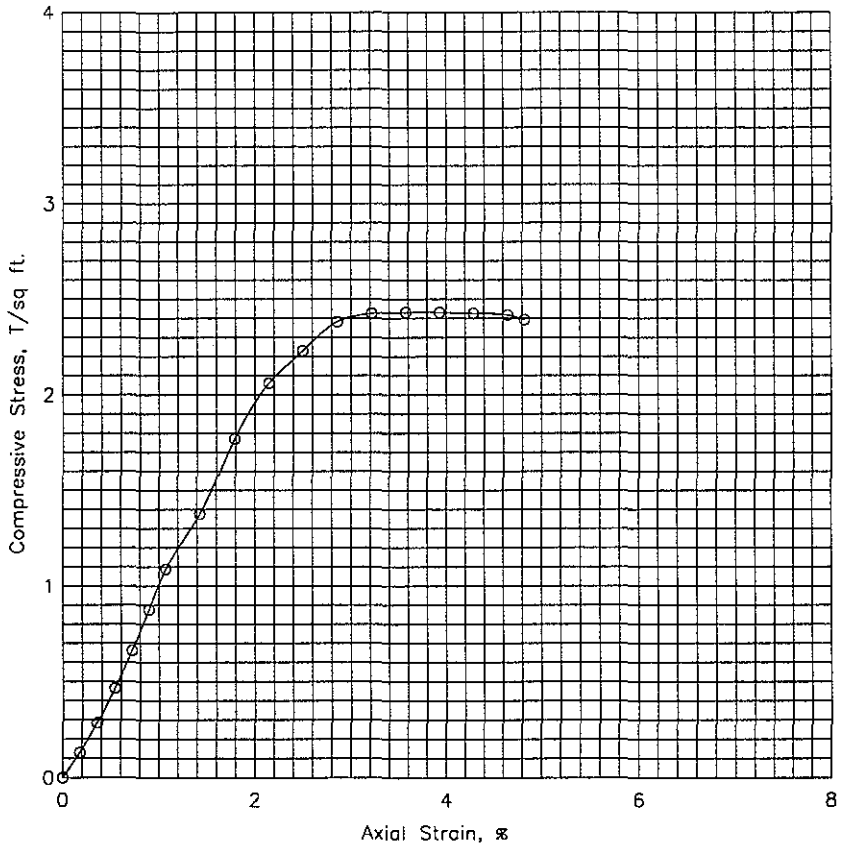
Specific Gravity of Solids
LL = 53 PL = 20 PI = 33

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Lapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	15.0	11.4	.002	6.30	.130
.3	20.	.020	33.0	25.0	.004	6.31	.285
.5	30.	.030	54.0	40.9	.005	6.32	.465
.7	40.	.040	77.0	58.3	.007	6.34	.662
.9	50.	.050	102.0	77.2	.009	6.35	.876
1.0	60.	.060	127.0	96.1	.011	6.36	1.089
1.4	80.	.080	161.0	121.9	.014	6.38	1.375
1.7	100.	.100	208.0	157.5	.018	6.40	1.770
2.0	120.	.120	243.0	184.0	.021	6.43	2.060
2.3	140.	.140	264.0	199.8	.025	6.45	2.230
2.7	160.	.160	283.0	214.2	.029	6.48	2.382
3.0	180.	.180	289.0	218.8	.032	6.50	2.424
3.3	200.	.200	291.0	220.3	.036	6.52	2.431
3.7	220.	.220	292.0	221.0	.039	6.55	2.431
4.0	240.	.240	292.5	221.4	.043	6.57	2.426
4.3	260.	.260	292.5	221.4	.046	6.60	2.417
4.5	270.	.270	290.0	219.5	.048	6.61	2.392

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	23.1 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	98.1			
Time to failure, min		t_f	3.33			
Unconfined compressive strength, T/sq ft		q_u	2.43			
Undrained shear strength, T/sq ft		S_u	1.22			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,w/silt & sand seams,Very stiff,Red & Gray

LL	53	PL	20	PI	33	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-77 | Sample No. 9

Depth El 16-18 ft | Date 3/2/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/9/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-78 SAMPLE NO. 3 DEPTH 4-6 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/sand seams,Medium stiff,Gray

Tare No.	W14	Height	5.595 in.
Tare plus Wet Specimen	346.76 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	307.50 gm	Initial Area	6.290 sq in.
Water Weight	39.26 gm	Volume	35.194 cu in.
Tare Weight	53.02 gm	Volume of Solids	cu in.
Wet Specimen	1114.14 gm	Void Ratio	
Dry Specimen	965.23 gm	Saturation	%
Water Content	15.43 %	Dry Density	104.5 lb/cu ft
Specific Gravity of Solids			

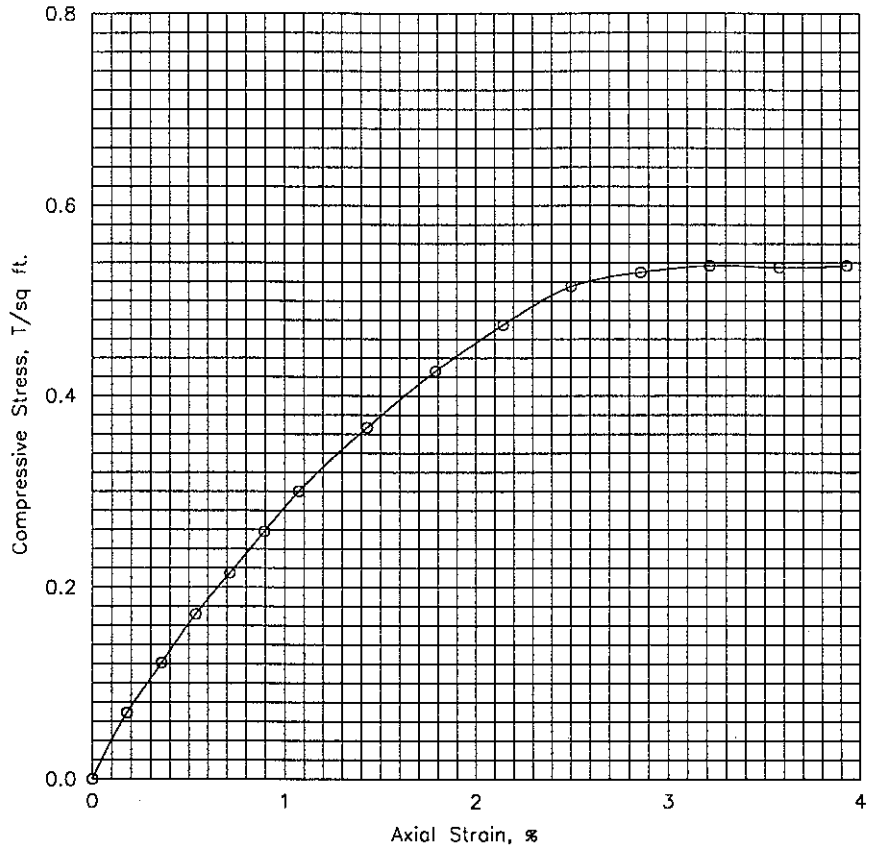
LL = 26 PL = 18 PI = 8

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	8.0	6.1	.002	6.30	.069
.3	20.	.020	14.0	10.6	.004	6.31	.121
.5	30.	.030	20.0	15.1	.005	6.32	.172
.7	40.	.040	25.0	18.9	.007	6.34	.215
.9	50.	.050	30.0	22.7	.009	6.35	.258
1.0	60.	.060	35.0	26.5	.011	6.36	.300
1.3	80.	.080	43.0	32.6	.014	6.38	.367
1.6	100.	.100	50.0	37.9	.018	6.40	.426
2.0	120.	.120	56.0	42.4	.021	6.43	.475
2.3	140.	.140	61.0	46.2	.025	6.45	.515
2.7	160.	.160	63.0	47.7	.029	6.48	.530
3.0	180.	.180	64.0	48.4	.032	6.50	.537
3.3	200.	.200	64.0	48.4	.036	6.52	.535
3.7	220.	.220	64.5	48.8	.039	6.55	.537

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	15.4 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	104.5			
Time to failure, min		t_f	2.97			
Unconfined compressive strength, T/sq ft		q_u	.54			
Undrained shear strength, T/sq ft		S_u	.27			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,w/sand seams,Medium stiff,Gray

LL	26	PL	18	PI	8	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-78 | Sample No. 3

Depth El 4-6 ft | Date 3/9/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/9/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-78 SAMPLE NO. 6 DEPTH 10-12 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/fer nod & sand seams,Stiff,Gray & Yellowish gray

Tare No.	HP10	Height	5.595 in.
Tare plus Wet Specimen	352.54 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	305.10 gm	Initial Area	6.290 sq in.
Water Weight	47.44 gm	Volume	35.194 cu in.
Tare Weight	43.27 gm	Volume of Solids	cu in.
Wet Specimen	1164.60 gm	Void Ratio	
Dry Specimen	985.96 gm	Saturation	%
Water Content	18.12 %	Dry Density	106.7 lb/cu ft
Specific Gravity of Solids			

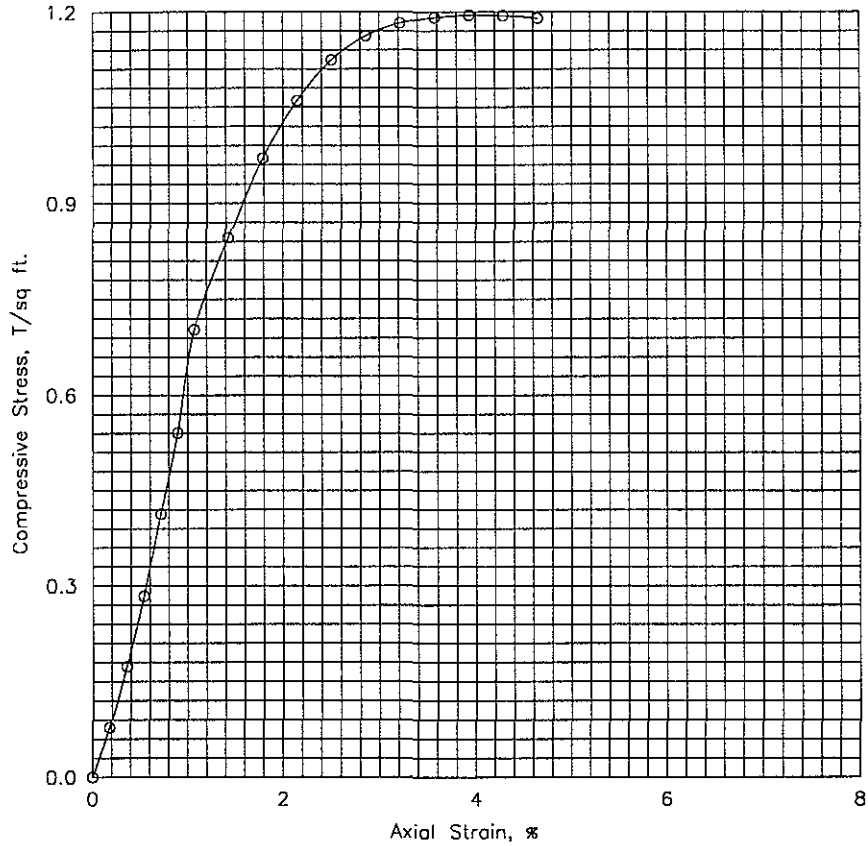
LL = 29 PL = 14 PI = 15

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	9.0	6.8	.002	6.30	.078
.3	20.	.020	20.0	15.1	.004	6.31	.173
.5	30.	.030	33.0	25.0	.005	6.32	.284
.7	40.	.040	48.0	36.3	.007	6.34	.413
.9	50.	.050	63.0	47.7	.009	6.35	.541
1.0	60.	.060	82.0	62.1	.011	6.36	.703
1.3	80.	.080	99.0	74.9	.014	6.38	.846
1.6	100.	.100	114.0	86.3	.018	6.40	.970
2.0	120.	.120	125.0	94.6	.021	6.43	1.060
2.3	140.	.140	133.0	100.7	.025	6.45	1.124
2.6	160.	.160	138.0	104.5	.029	6.48	1.162
3.0	180.	.180	141.0	106.7	.032	6.50	1.182
3.3	200.	.200	142.5	107.9	.036	6.52	1.191
3.6	220.	.220	143.5	108.6	.039	6.55	1.195
3.9	240.	.240	144.0	109.0	.043	6.57	1.194
4.3	260.	.260	144.0	109.0	.046	6.60	1.190

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	18.1 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	106.7			
Time to failure, min		t_f	3.60			
Unconfined compressive strength, T/sq ft		q_u	1.19			
Undrained shear strength, T/sq ft		S_u	.60			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,w/fer nod & sand seams,Stiff,Gray & Yellowish gray

LL	29	PL	14	PI	15	G_s

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-78 | Sample No. 6

Depth El 10-12 ft | Date 3/9/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/10/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-79 SAMPLE NO. 4 DEPTH 6-8 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/calc & fer nod,Stiff,Yellowish gray

Tare No.	P204	Height	5.595 in.
Tare plus Wet Specimen	266.98 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	234.35 gm	Initial Area	6.290 sq in.
Water Weight	32.63 gm	Volume	35.194 cu in.
Tare Weight	42.95 gm	Volume of Solids	cu in.
Wet Specimen	1222.66 gm	Void Ratio	
Dry Specimen	1044.58 gm	Saturation	%
Water Content	17.05 %	Dry Density	113.1 lb/cu ft
Specific Gravity of Solids			

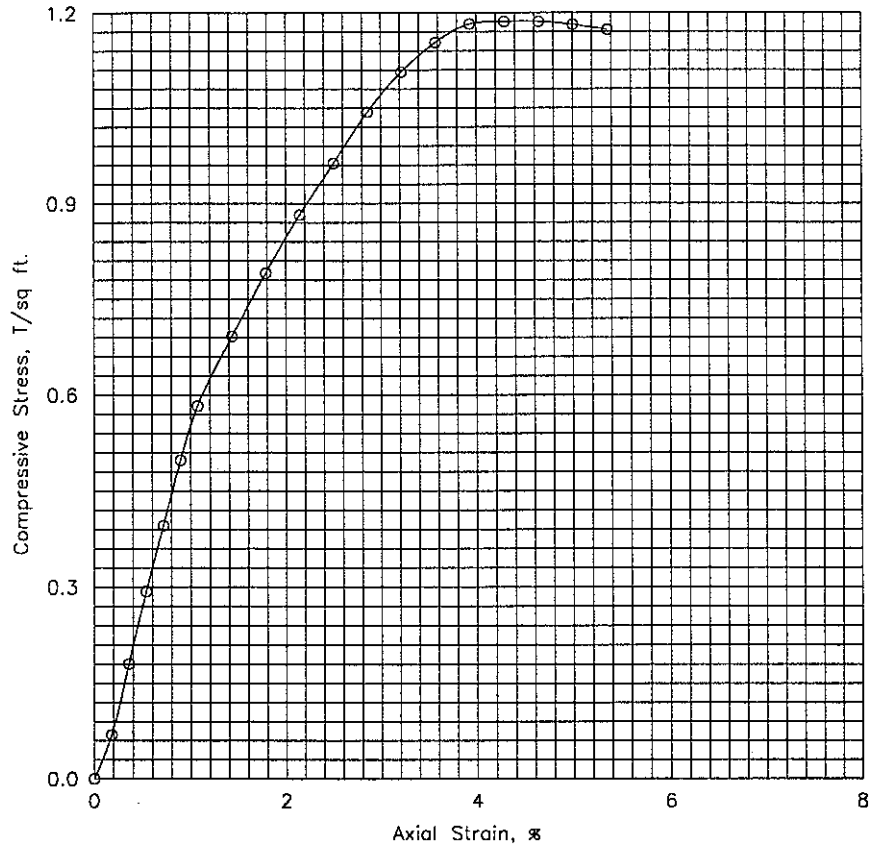
LL = 29 PL = 16 PI = 13

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	8.0	6.1	.002	6.30	.069
.3	20.	.020	21.0	15.9	.004	6.31	.181
.5	30.	.030	34.0	25.7	.005	6.32	.293
.7	40.	.040	46.0	34.8	.007	6.34	.396
.9	50.	.050	58.0	43.9	.009	6.35	.498
1.0	60.	.060	68.0	51.5	.011	6.36	.583
1.4	80.	.080	81.0	61.3	.014	6.38	.692
1.7	100.	.100	93.0	70.4	.018	6.40	.791
2.0	120.	.120	104.0	78.7	.021	6.43	.882
2.3	140.	.140	114.0	86.3	.025	6.45	.963
2.6	160.	.160	124.0	93.9	.029	6.48	1.044
3.0	180.	.180	132.0	99.9	.032	6.50	1.107
3.3	200.	.200	138.0	104.5	.036	6.52	1.153
3.6	220.	.220	142.0	107.5	.039	6.55	1.182
4.0	240.	.240	143.0	108.3	.043	6.57	1.186
4.3	260.	.260	143.5	108.6	.046	6.60	1.186
4.6	280.	.280	143.5	108.6	.050	6.62	1.181
4.9	300.	.300	143.0	108.3	.054	6.65	1.173

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.		1			
Type of Specimen		Undisturbed			
Initial: Water content	w_0	17.0 %	%	%	%
Initial: Void ratio	e_0				
Initial: Saturation	S_0	%	%	%	%
Initial: Dry density, lb/cu ft	γ_d	113.1			
Time to failure, min	t_f	3.95			
Unconfined compressive strength, T/sq ft	q_u	1.19			
Undrained shear strength, T/sq ft	S_u	.59			
Sensitivity ratio	S_t				
Initial specimen diameter, in.	D_0	2.830			
Initial specimen height, in.	H_0	5.595			

Classification Sandy Clay,w/calc & fer nod,Stiff,Yellowish gray

LL	29	PL	16	PI	13	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-79 | Sample No. 4

Depth El 6-8 ft | Date 3/10/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/10/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-79 SAMPLE NO. 8 DEPTH 14-16 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,w/calc & fer nod,slks,Very stiff,Red & Gray

Tare No.	M16	Height	5.595 in.
Tare plus Wet Specimen	254.88 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	211.75 gm	Initial Area	6.290 sq in.
Water Weight	43.13 gm	Volume	35.194 cu in.
Tare Weight	52.91 gm	Volume of Solids	cu in.
Wet Specimen	1116.39 gm	Void Ratio	
Dry Specimen	877.99 gm	Saturation	%
Water Content	27.15 %	Dry Density	95.0 lb/cu ft
Specific Gravity of Solids			

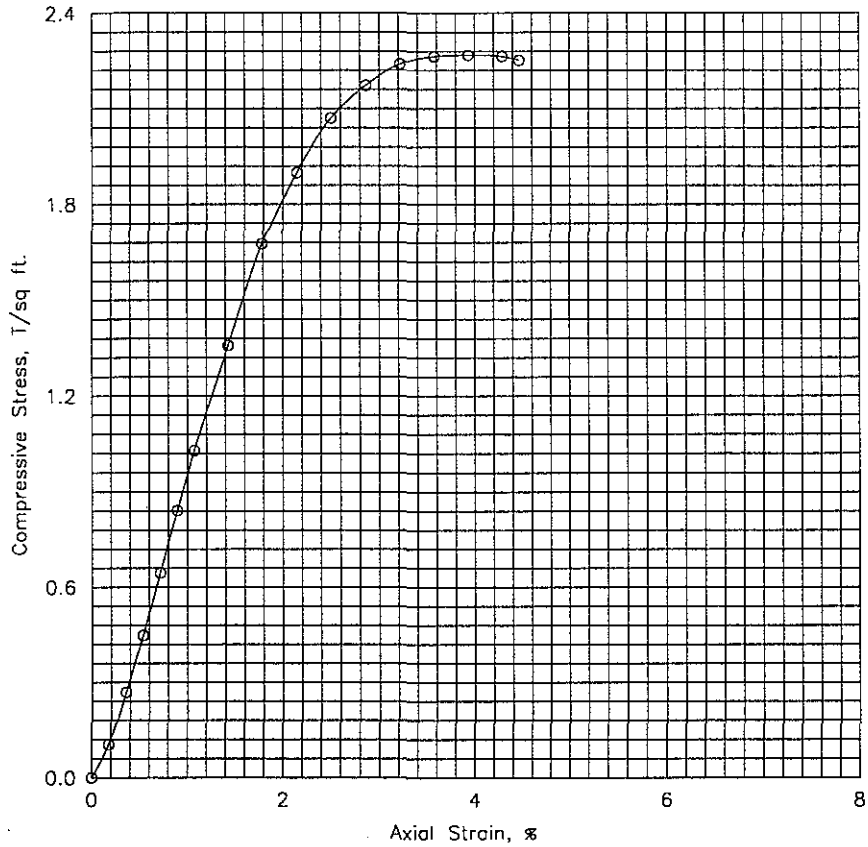
LL = 51 PL = 20 PI = 31

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	12.0	9.1	.002	6.30	.104
.4	20.	.020	31.0	23.5	.004	6.31	.268
.6	30.	.030	52.0	39.4	.005	6.32	.448
.7	40.	.040	75.0	56.8	.007	6.34	.645
.9	50.	.050	98.0	74.2	.009	6.35	.842
1.1	60.	.060	120.0	90.8	.011	6.36	1.029
1.4	80.	.080	159.0	120.4	.014	6.38	1.358
1.7	100.	.100	197.0	149.1	.018	6.40	1.676
2.0	120.	.120	224.0	169.6	.021	6.43	1.899
2.4	140.	.140	245.0	185.5	.025	6.45	2.070
2.7	160.	.160	258.0	195.3	.029	6.48	2.172
3.0	180.	.180	267.0	202.1	.032	6.50	2.239
3.3	200.	.200	271.0	205.1	.036	6.52	2.264
3.6	220.	.220	272.5	206.3	.039	6.55	2.268
4.0	240.	.240	273.0	206.7	.043	6.57	2.264
4.1	250.	.250	272.0	205.9	.045	6.58	2.252

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	27.2 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	95.0			
Time to failure, min		t_f	3.63			
Unconfined compressive strength, T/sq ft		q_u	2.27			
Undrained shear strength, T/sq ft		S_u	1.13			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,w/calc & fer nod,slks,Very stiff,Red & Gray

LL	51	PL	20	PI	31	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-79 | Sample No. 8

Depth El 14-16 ft | Date 3/10/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/10/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-79 SAMPLE NO. 14 DEPTH 26-28 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,w/calc & fer nod,slks,Hard,Red & Gray

Tare No.	HP11	Height	5.595 in.
Tare plus Wet Specimen	259.96 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	217.87 gm	Initial Area	6.290 sq in.
Water Weight	42.09 gm	Volume	35.194 cu in.
Tare Weight	43.47 gm	Volume of Solids	cu in.
Wet Specimen	1134.54 gm	Void Ratio	
Dry Specimen	913.96 gm	Saturation	%
Water Content	24.13 %	Dry Density	98.9 lb/cu ft
Specific Gravity of Solids			

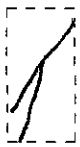
LL = 70 PL = 26 PI = 44

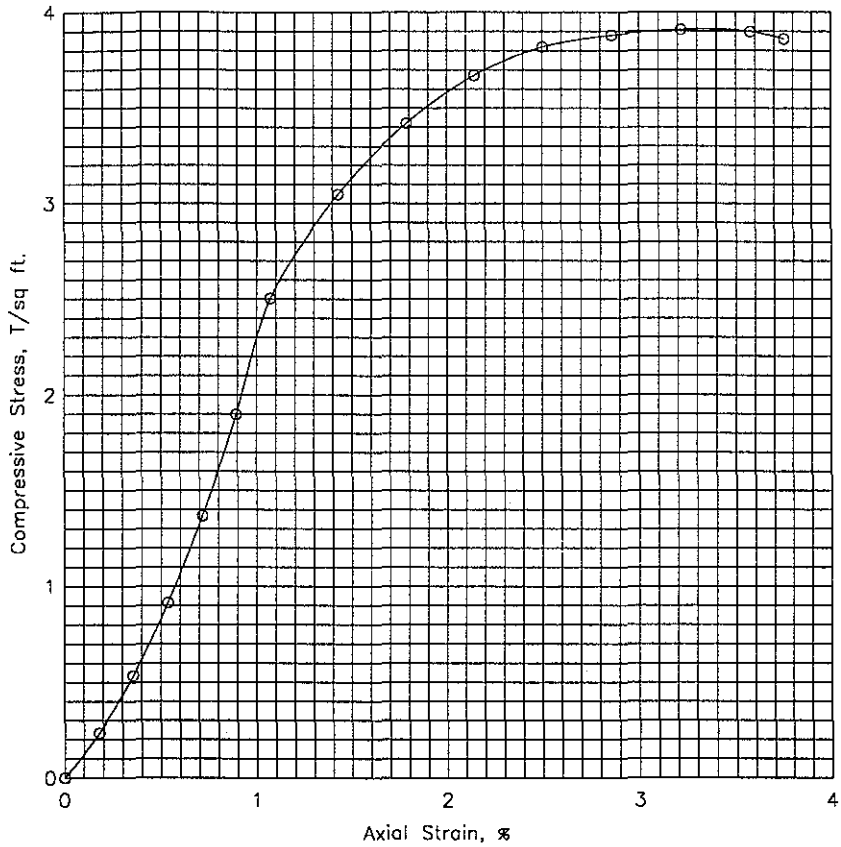
Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	27.0	20.4	.002	6.30	.234
.3	20.	.020	62.0	46.9	.004	6.31	.535
.5	30.	.030	106.0	80.2	.005	6.32	.914
.7	40.	.040	159.0	120.4	.007	6.34	1.368
.8	50.	.050	221.0	167.3	.009	6.35	1.898
1.0	60.	.060	292.0	221.0	.011	6.36	2.503
1.3	80.	.080	357.0	270.2	.014	6.38	3.049
1.6	100.	.100	402.0	304.3	.018	6.40	3.421
2.0	120.	.120	433.0	327.8	.021	6.43	3.671
2.3	140.	.140	452.0	342.2	.025	6.45	3.819
2.6	160.	.160	461.0	349.0	.029	6.48	3.880
2.9	180.	.180	466.0	352.8	.032	6.50	3.908
3.2	200.	.200	466.5	353.1	.036	6.52	3.898
3.4	210.	.210	463.0	350.5	.038	6.54	3.861

Job No. 114008614

Failure Sketches





☐ Controlled stress
☒ Controlled strain

Test No.		1			
Type of Specimen		Undisturbed			
Initial: Water content	w_0	24.1 %	%	%	%
Initial: Void ratio	e_0				
Initial: Saturation	S_0	%	%	%	%
Initial: Dry density, lb/cu ft	γ_d	98.9			
Time to failure, min	t_f	2.93			
Unconfined compressive strength, T/sq ft	q_u	3.91			
Undrained shear strength, T/sq ft	S_u	1.95			
Sensitivity ratio	S_t				
Initial specimen diameter, in.	D_0	2.830			
Initial specimen height, in.	H_0	5.595			

Classification Clay,w/calc & fer nod,slks,Hard,Red & Gray

LL	70	PL	26	PI	44	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-79 | Sample No. 14

Depth El 26-28 ft | Date 3/10/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 2/26/98

PROJECT Greens Bayou

EA Houston, Texas

BORING NO. 97-80 SAMPLE NO. 3 DEPTH 4-6 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/fer nod & sand seams,Stiff,Gray

Tare No.	W16	Height	5.595 in.
Tare plus Wet Specimen	459.70 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	388.10 gm	Initial Area	6.290 sq in.
Water Weight	71.60 gm	Volume	35.194 cu in.
Tare Weight	42.54 gm	Volume of Solids	cu in.
Wet Specimen	1146.88 gm	Void Ratio	
Dry Specimen	950.03 gm	Saturation	%
Water Content	20.72 %	Dry Density	102.8 lb/cu ft

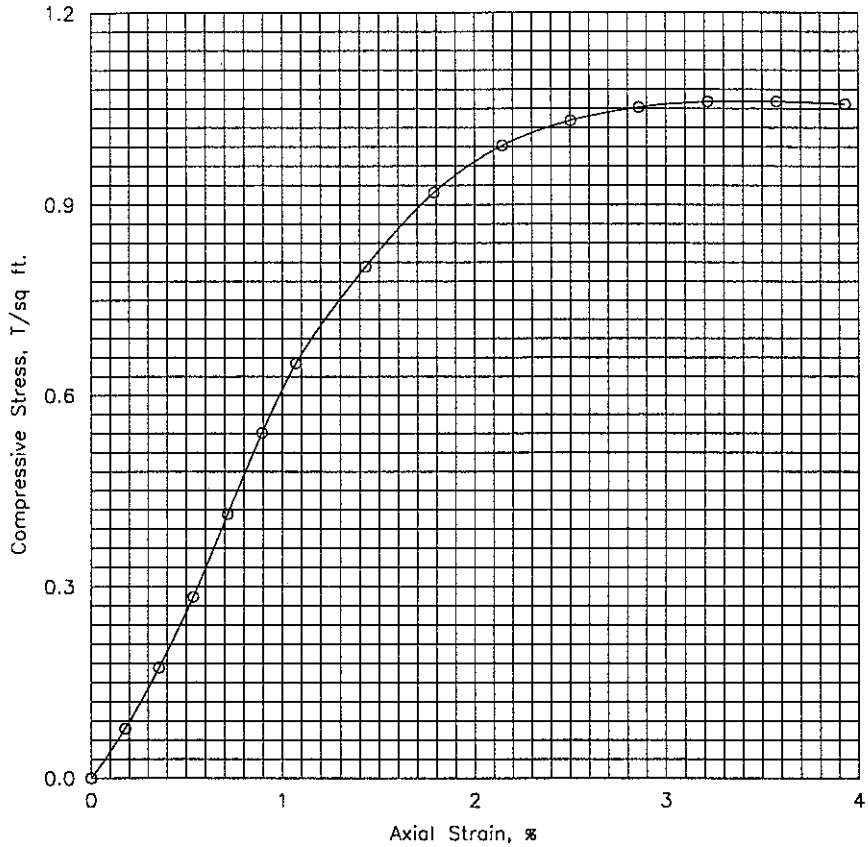
Specific Gravity of Solids
LL = 24 PL = 15 PI = 9

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

apsed ſime min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	9.0	6.8	.002	6.30	.078
.3	20.	.020	20.0	15.1	.004	6.31	.173
.5	30.	.030	33.0	25.0	.005	6.32	.284
.7	40.	.040	48.0	36.3	.007	6.34	.413
.9	50.	.050	63.0	47.7	.009	6.35	.541
1.0	60.	.060	76.0	57.5	.011	6.36	.651
1.4	80.	.080	94.0	71.2	.014	6.38	.803
1.7	100.	.100	108.0	81.8	.018	6.40	.919
2.0	120.	.120	117.0	88.6	.021	6.43	.992
2.3	140.	.140	122.0	92.4	.025	6.45	1.031
2.6	160.	.160	125.0	94.6	.029	6.48	1.052
3.0	180.	.180	126.5	95.8	.032	6.50	1.061
3.3	200.	.200	127.0	96.1	.036	6.52	1.061
3.6	220.	.220	127.0	96.1	.039	6.55	1.057

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	20.7 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	102.8			
Time to failure, min		t_f	3.28			
Unconfined compressive strength, T/sq ft		q_u	1.06			
Undrained shear strength, T/sq ft		S_u	.53			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,w/fer nod & sand seams,Stiff,Gray

LL	24	PL	15	PI	9	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-80 | Sample No. 3

Depth El 4-6 ft | Date 2/26/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

JOB NO. 114008614 DATE 2/27/98

PROJECT Greens Bayou

EA Houston, Texas

BORING NO. 97-81 SAMPLE NO. 6 DEPTH 10-12 ft

SPECIMEN NO. 1

CLASSIFICATION
Silty Clay,w/fer nod & sand seams,Medium stiff,Gray&Yellowish gray

Tare No.	W30	Height	5.595 in.
Tare plus Wet Specimen	433.39 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	374.50 gm	Initial Area	6.290 sq in.
Water Weight	58.89 gm	Volume	35.194 cu in.
Tare Weight	42.49 gm	Volume of Solids	cu in.
Wet Specimen	1197.14 gm	Void Ratio	
Dry Specimen	1016.79 gm	Saturation	%
Water Content	17.74 %	Dry Density	110.1 lb/cu ft

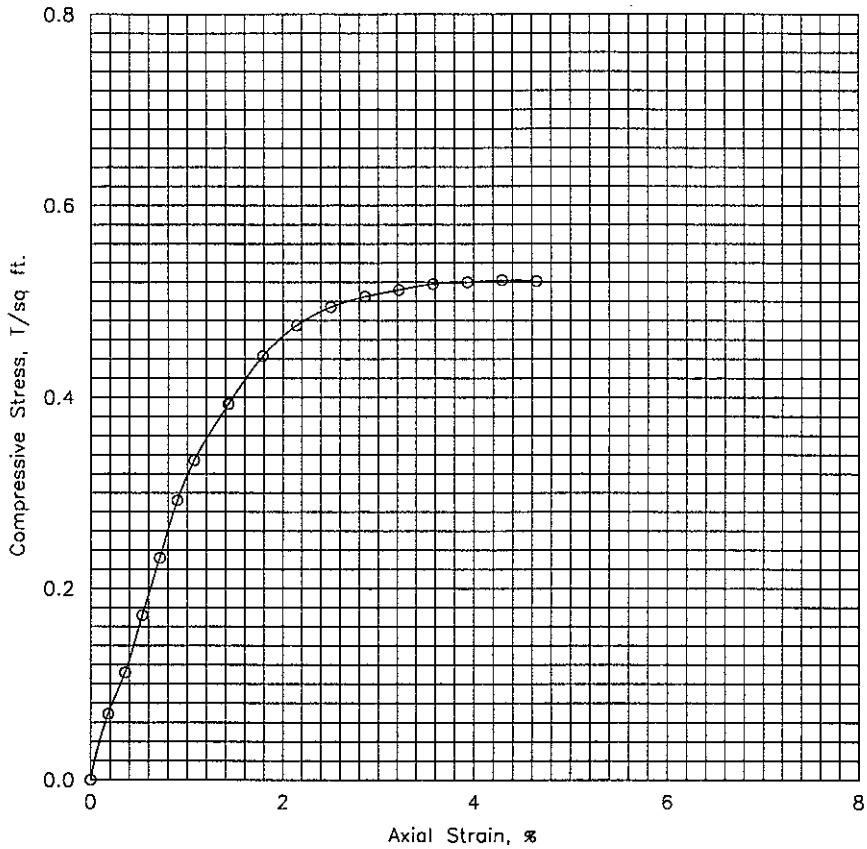
Specific Gravity of Solids
LL = 28 PL = 16 PI = 12

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	8.0	6.1	.002	6.30	.069
.4	20.	.020	13.0	9.8	.004	6.31	.112
.5	30.	.030	20.0	15.1	.005	6.32	.172
.7	40.	.040	27.0	20.4	.007	6.34	.232
.9	50.	.050	34.0	25.7	.009	6.35	.292
1.0	60.	.060	39.0	29.5	.011	6.36	.334
1.3	80.	.080	46.0	34.8	.014	6.38	.393
1.7	100.	.100	52.0	39.4	.018	6.40	.443
2.0	120.	.120	56.0	42.4	.021	6.43	.475
2.3	140.	.140	58.5	44.3	.025	6.45	.494
2.6	160.	.160	60.0	45.4	.029	6.48	.505
3.0	180.	.180	61.0	46.2	.032	6.50	.512
3.3	200.	.200	62.0	46.9	.036	6.52	.518
3.6	220.	.220	62.5	47.3	.039	6.55	.520
3.9	240.	.240	63.0	47.7	.043	6.57	.522
4.3	260.	.260	63.0	47.7	.046	6.60	.521

Job No. 11408614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.		1			
Type of Specimen		Undisturbed			
Initial: Water content	w_0	17.7 %	%	%	%
Initial: Void ratio	e_0				
Initial: Saturation	S_0	%	%	%	%
Initial: Dry density, lb/cu ft	γ_d	110.1			
Time to failure, min	t_f	3.92			
Unconfined compressive strength, T/sq ft	q_u	.52			
Undrained shear strength, T/sq ft	S_u	.26			
Sensitivity ratio	S_t				
Initial specimen diameter, in.	D_0	2.830			
Initial specimen height, in.	H_0	5.595			

Classification Silty Clay,w/fer nod & sand seams,Medium stiff,Gray&Yellowish gray

LL	28	PL	16	PI	12	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-81 | Sample No. 6

Depth El 10-12 ft | Date 2/27/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 2/27/98

PROJECT Greens Bayou

.EA Houston, Texas

BORING NO. 97-81 SAMPLE NO. 14 DEPTH 26-28 ft

SPECIMEN NO. 1

CLASSIFICATION
Silty Clay,w/silt stone & silt layer,Very stiff,Red

Tare No.	HP46	Height	5.595 in.
Tare plus Wet Specimen	474.46 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	399.19 gm	Initial Area	6.290 sq in.
Water Weight	75.27 gm	Volume	35.194 cu in.
Tare Weight	43.55 gm	Volume of Solids	cu in.
Wet Specimen	1166.93 gm	Void Ratio	
Dry Specimen	963.09 gm	Saturation	%
Water Content	21.16 %	Dry Density	104.3 lb/cu ft
Specific Gravity of Solids			

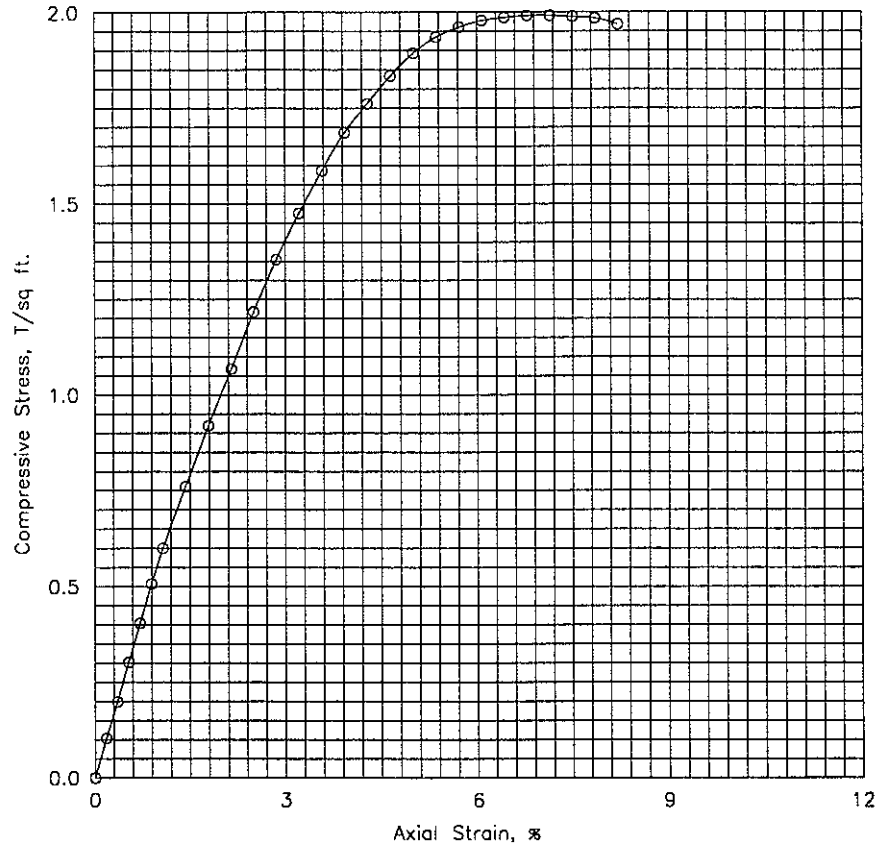
LL = 32 PL = 18 PI = 14

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

.apsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	12.0	9.1	.002	6.30	.104
.3	20.	.020	23.0	17.4	.004	6.31	.199
.5	30.	.030	35.0	26.5	.005	6.32	.302
.7	40.	.040	47.0	35.6	.007	6.34	.404
.9	50.	.050	59.0	44.7	.009	6.35	.507
1.0	60.	.060	70.0	53.0	.011	6.36	.600
1.4	80.	.080	89.0	67.4	.014	6.38	.760
1.7	100.	.100	108.0	81.8	.018	6.40	.919
2.0	120.	.120	126.0	95.4	.021	6.43	1.068
2.3	140.	.140	144.0	109.0	.025	6.45	1.217
2.6	160.	.160	161.0	121.9	.029	6.48	1.355
3.0	180.	.180	176.0	133.2	.032	6.50	1.476
3.3	200.	.200	190.0	143.8	.036	6.52	1.587
3.6	220.	.220	202.5	153.3	.039	6.55	1.686
4.0	240.	.240	212.5	160.9	.043	6.57	1.762
4.3	260.	.260	222.0	168.1	.046	6.60	1.834
4.6	280.	.280	230.0	174.1	.050	6.62	1.893
4.9	300.	.300	236.0	178.7	.054	6.65	1.935
5.3	320.	.320	240.0	181.7	.057	6.67	1.961
4.6	340.	.340	243.0	184.0	.061	6.70	1.978
4.9	360.	.360	245.0	185.5	.064	6.72	1.986
5.3	380.	.380	246.5	186.6	.068	6.75	1.991
5.6	400.	.400	247.5	187.4	.071	6.77	1.991
5.9	420.	.420	248.0	187.7	.075	6.80	1.988
6.2	440.	.440	248.5	188.1	.079	6.83	1.984
6.6	460.	.460	247.5	187.4	.082	6.85	1.968

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	21.2 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	104.3			
Time to failure, min		t_f	5.58			
Unconfined compressive strength, T/sq ft		q_u	1.99			
Undrained shear strength, T/sq ft		S_u	1.00			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Silty Clay,w/silt stone & silt layer,Very stiff,Red

LL	32	PL	18	PI	14	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-81 | Sample No. 14

Depth El 26-28 ft | Date 2/27/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/3/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-82 SAMPLE NO. 3 DEPTH 4-6 ft

SPECIMEN NO. 1

CLASSIFICATION
Silty Clay,w/sand seams,Stiff,Yellowish gray

Tare No.	SK21	Height	5.595 in.
Tare plus Wet Specimen	485.20 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	414.98 gm	Initial Area	6.290 sq in.
Water Weight	70.22 gm	Volume	35.194 cu in.
Tare Weight	43.43 gm	Volume of Solids	cu in.
Wet Specimen	1177.53 gm	Void Ratio	
Dry Specimen	990.36 gm	Saturation	%
Water Content	18.90 %	Dry Density	107.2 lb/cu ft
Specific Gravity of Solids			

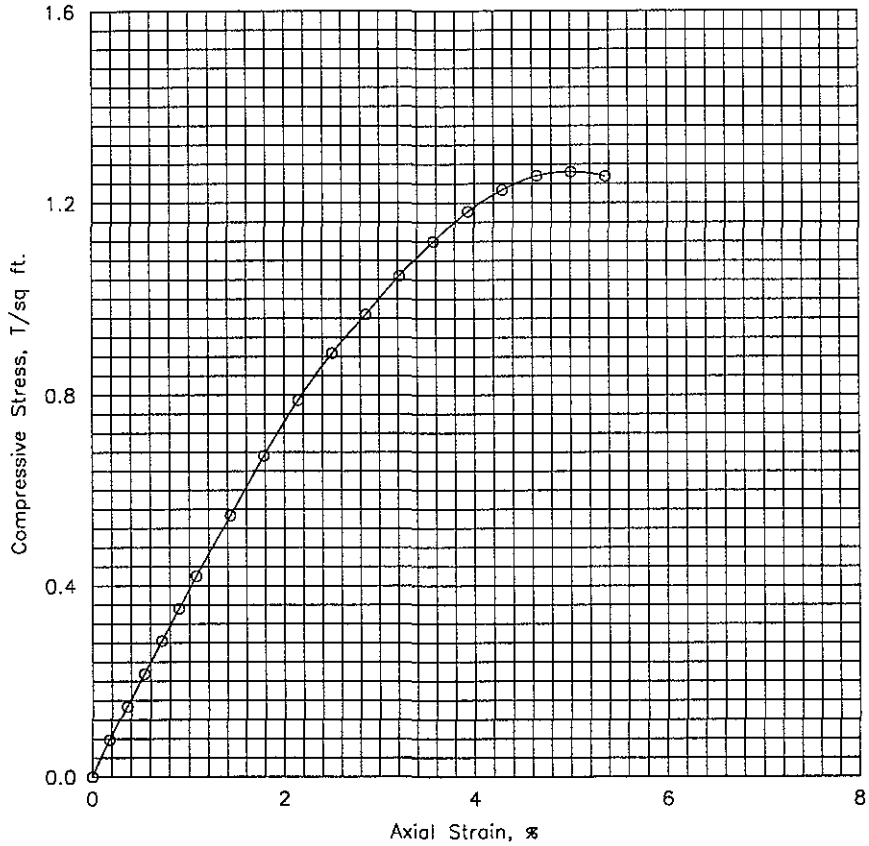
LL = 23 PL = 15 PI = 8

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	9.0	6.8	.002	6.30	.078
.4	20.	.020	17.0	12.9	.004	6.31	.147
.6	30.	.030	25.0	18.9	.005	6.32	.215
.7	40.	.040	33.0	25.0	.007	6.34	.284
.9	50.	.050	41.0	31.0	.009	6.35	.352
1.1	60.	.060	49.0	37.1	.011	6.36	.420
1.4	80.	.080	64.0	48.4	.014	6.38	.547
1.7	100.	.100	79.0	59.8	.018	6.40	.672
2.0	120.	.120	93.0	70.4	.021	6.43	.789
2.3	140.	.140	105.0	79.5	.025	6.45	.887
2.7	160.	.160	115.0	87.1	.029	6.48	.968
3.0	180.	.180	125.0	94.6	.032	6.50	1.048
3.3	200.	.200	134.0	101.4	.036	6.52	1.120
3.6	220.	.220	142.0	107.5	.039	6.55	1.182
4.0	240.	.240	148.0	112.0	.043	6.57	1.227
4.3	260.	.260	152.0	115.1	.046	6.60	1.256
4.6	280.	.280	153.5	116.2	.050	6.62	1.264
5.0	300.	.300	153.0	115.8	.054	6.65	1.255

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	18.9 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	107.2			
Time to failure, min		t_f	4.63			
Unconfined compressive strength, T/sq ft		q_u	1.26			
Undrained shear strength, T/sq ft		S_u	.63			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Silty Clay,w/sand seams,Stiff,Yellowish gray

LL	23	PL	15	PI	8	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-82 | Sample No. 3

Depth El 4-6 ft | Date 3/3/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/3/98

PROJECT Greens Bayou

.EA Houston, Texas

BORING NO. 97-82 SAMPLE NO. 8 DEPTH 14-16 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,w/silt&sand seams,Very stiff,Red & gray

Tare No.	P211	Height	5.595 in.
Tare plus Wet Specimen	485.82 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	407.19 gm	Initial Area	6.290 sq in.
Water Weight	78.63 gm	Volume	35.194 cu in.
Tare Weight	42.63 gm	Volume of Solids	cu in.
Wet Specimen	1139.42 gm	Void Ratio	
Dry Specimen	937.27 gm	Saturation	%
Water Content	21.57 %	Dry Density	101.5 lb/cu ft
Specific Gravity of Solids			

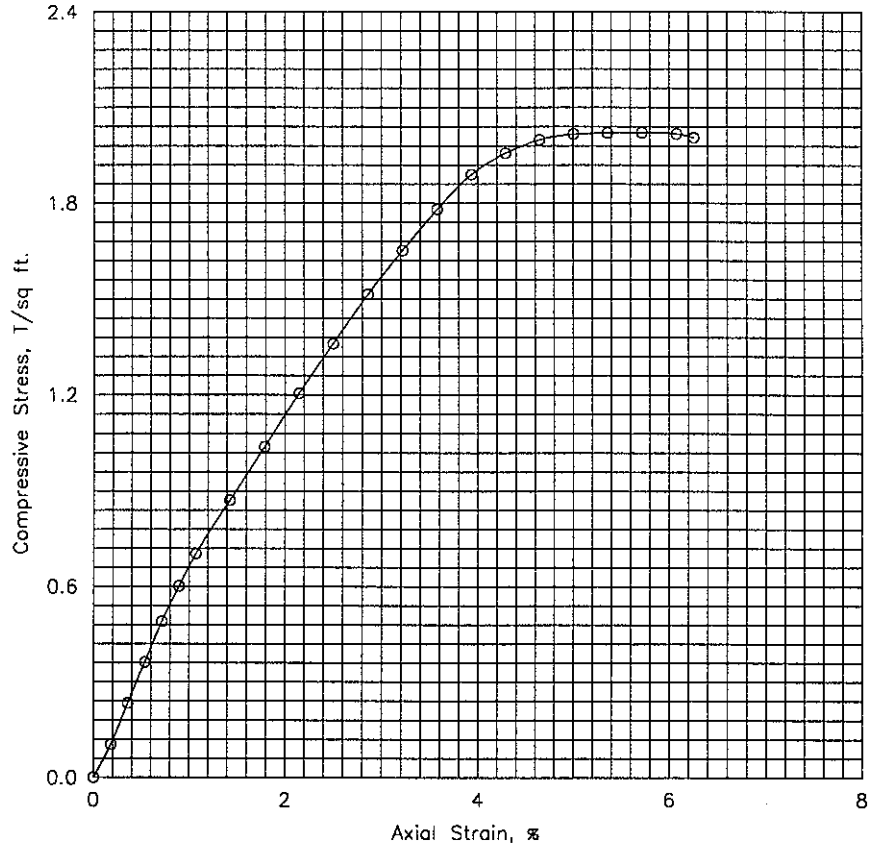
LL = 68 PL = 27 PI = 41

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	12.0	9.1	.002	6.30	.104
.4	20.	.020	27.0	20.4	.004	6.31	.233
.6	30.	.030	42.0	31.8	.005	6.32	.362
.7	40.	.040	57.0	43.1	.007	6.34	.490
.9	50.	.050	70.0	53.0	.009	6.35	.601
1.1	60.	.060	82.0	62.1	.011	6.36	.703
1.4	80.	.080	102.0	77.2	.014	6.38	.871
1.7	100.	.100	122.0	92.4	.018	6.40	1.038
2.0	120.	.120	142.0	107.5	.021	6.43	1.204
2.3	140.	.140	161.0	121.9	.025	6.45	1.360
2.7	160.	.160	180.0	136.3	.029	6.48	1.515
3.0	180.	.180	197.0	149.1	.032	6.50	1.652
3.3	200.	.200	213.0	161.2	.036	6.52	1.780
3.6	220.	.220	227.0	171.8	.039	6.55	1.890
4.0	240.	.240	236.0	178.7	.043	6.57	1.957
4.3	260.	.260	242.0	183.2	.046	6.60	1.999
4.6	280.	.280	245.0	185.5	.050	6.62	2.017
5.0	300.	.300	246.5	186.6	.054	6.65	2.021
5.3	320.	.320	247.5	187.4	.057	6.67	2.022
5.7	340.	.340	248.0	187.7	.061	6.70	2.018
5.8	350.	.350	247.0	187.0	.063	6.71	2.006

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	21.6 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	101.5			
Time to failure, min		t_f	5.32			
Unconfined compressive strength, T/sq ft		q_u	2.02			
Undrained shear strength, T/sq ft		S_u	1.01			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,w/silt&sand seams,Very stiff,Red & gray

LL	68	PL	27	PI	41	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-82 | Sample No. 8

Depth El 14-16 ft | Date 3/3/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/3/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-83 SAMPLE NO. 4 DEPTH 6-8 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/fer nod & sand seams,Very stiff,Yellowish gray

Tare No.	HP11	Height	5.595 in.
Tare plus Wet Specimen	261.52 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	232.37 gm	Initial Area	6.290 sq in.
Water Weight	29.15 gm	Volume	35.194 cu in.
Tare Weight	54.26 gm	Volume of Solids	cu in.
Wet Specimen	1181.16 gm	Void Ratio	
Dry Specimen	1015.04 gm	Saturation	%
Water Content	16.37 %	Dry Density	109.9 lb/cu ft
Specific Gravity of Solids			

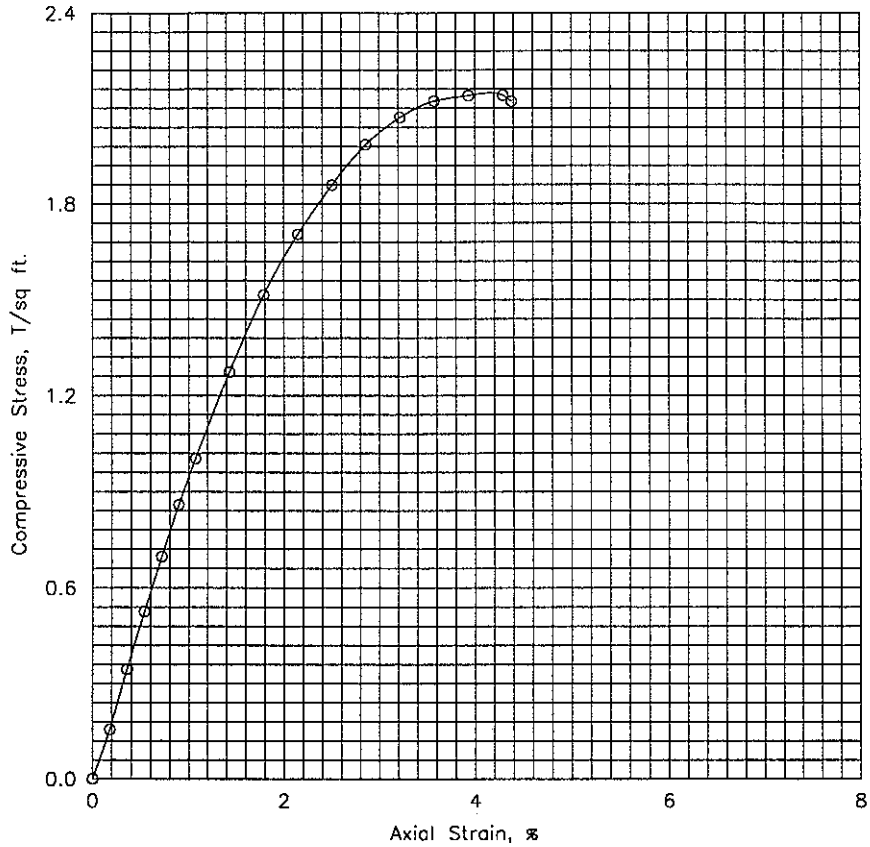
LL = 27 PL = 17 PI = 10

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	18.0	13.6	.002	6.30	.156
.4	20.	.020	40.0	30.3	.004	6.31	.345
.5	30.	.030	61.0	46.2	.005	6.32	.526
.7	40.	.040	81.0	61.3	.007	6.34	.697
.9	50.	.050	100.0	75.7	.009	6.35	.859
1.0	60.	.060	117.0	88.6	.011	6.36	1.003
1.4	80.	.080	149.0	112.8	.014	6.38	1.273
1.7	100.	.100	178.0	134.7	.018	6.40	1.515
2.0	120.	.120	201.0	152.2	.021	6.43	1.704
2.3	140.	.140	220.0	166.5	.025	6.45	1.859
2.7	160.	.160	236.0	178.7	.029	6.48	1.986
3.0	180.	.180	247.0	187.0	.032	6.50	2.071
3.3	200.	.200	254.0	192.3	.036	6.52	2.122
3.7	220.	.220	257.0	194.5	.039	6.55	2.139
4.0	240.	.240	258.0	195.3	.043	6.57	2.140
4.2	245.	.245	256.0	193.8	.044	6.58	2.121

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	16.4 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	109.9			
Time to failure, min		t_f	3.97			
Unconfined compressive strength, T/sq ft		q_u	2.14			
Undrained shear strength, T/sq ft		S_u	1.07			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,w/fer nod & sand seams,Very stiff,Yellowish gray

LL	27	PL	17	PI	10	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-83 | Sample No. 4

Depth El 6-8 ft | Date 3/3/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/3/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-83 SAMPLE NO. 9 DEPTH 16-18 ft

SPECIMEN NO. 1

CLASSIFICATION
Silty Clay,w/fer nod & fer stains & silt seams,Very stiff,Red&Gray

Tare No.	B1	Height	5.595 in.
Tare plus Wet Specimen	268.38 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	228.64 gm	Initial Area	6.290 sq in.
Water Weight	39.74 gm	Volume	35.194 cu in.
Tare Weight	43.91 gm	Volume of Solids	cu in.
Wet Specimen	1132.74 gm	Void Ratio	
Dry Specimen	932.20 gm	Saturation	%
Water Content	21.51 %	Dry Density	100.9 lb/cu ft
Specific Gravity of Solids			

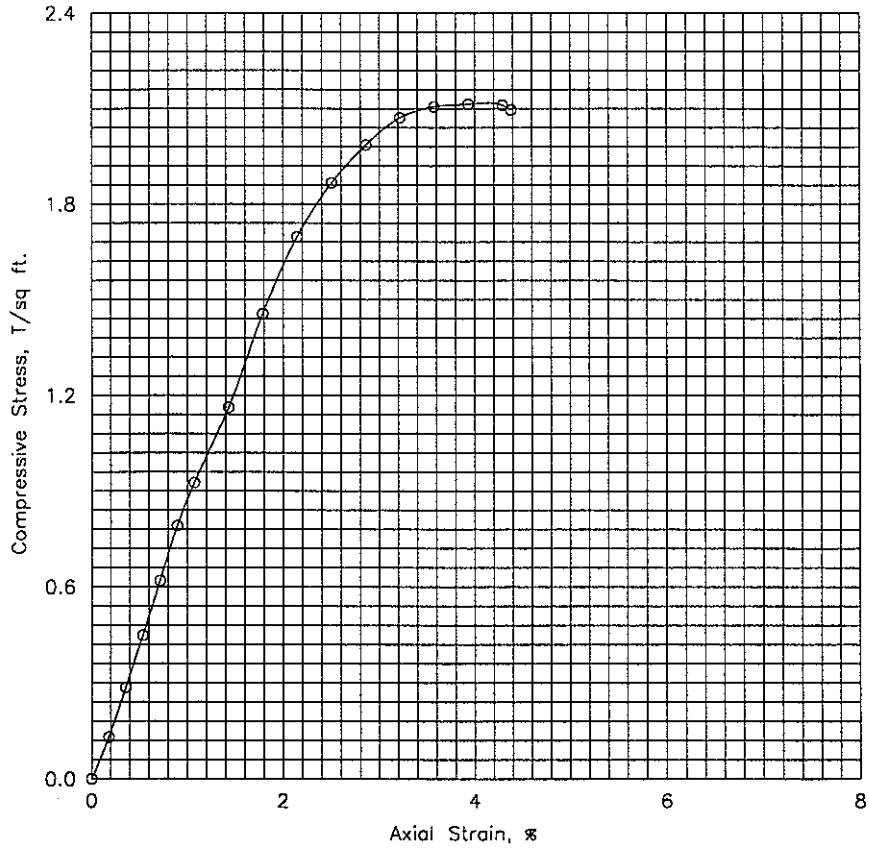
LL = 42 PL = 21 PI = 21

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	15.0	11.4	.002	6.30	.130
.3	20.	.020	33.0	25.0	.004	6.31	.285
.5	30.	.030	52.0	39.4	.005	6.32	.448
.7	40.	.040	72.0	54.5	.007	6.34	.619
.9	50.	.050	92.0	69.6	.009	6.35	.790
1.0	60.	.060	108.0	81.8	.011	6.36	.926
1.4	80.	.080	136.0	103.0	.014	6.38	1.162
1.7	100.	.100	171.0	129.4	.018	6.40	1.455
2.0	120.	.120	200.0	151.4	.021	6.43	1.696
2.3	140.	.140	221.0	167.3	.025	6.45	1.867
2.7	160.	.160	236.0	178.7	.029	6.48	1.986
3.0	180.	.180	247.0	187.0	.032	6.50	2.071
3.3	200.	.200	252.0	190.8	.036	6.52	2.106
3.6	220.	.220	254.0	192.3	.039	6.55	2.114
4.0	240.	.240	254.5	192.7	.043	6.57	2.111
4.1	245.	.245	253.0	191.5	.044	6.58	2.096

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	21.5 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	100.9			
Time to failure, min		t_f	3.62			
Unconfined compressive strength, T/sq ft		q_u	2.11			
Undrained shear strength, T/sq ft		S_u	1.06			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Silty Clay,w/fer nod & fer stains & silt seams,Very stiff,Red&Gray

LL	42	PL	21	PI	21	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-83 | Sample No. 9

Depth El 16-18 ft | Date 3/3/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/9/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-84 SAMPLE NO. 5 DEPTH 8-10 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,Hard,Yellowish gary

Tare No.	HP4	Height	5.595 in.
Tare plus Wet Specimen	350.44 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	316.71 gm	Initial Area	6.290 sq in.
Water Weight	33.73 gm	Volume	35.194 cu in.
Tare Weight	42.79 gm	Volume of Solids	cu in.
Wet Specimen	1166.31 gm	Void Ratio	
Dry Specimen	1038.44 gm	Saturation	%
Water Content	12.31 %	Dry Density	112.4 lb/cu ft

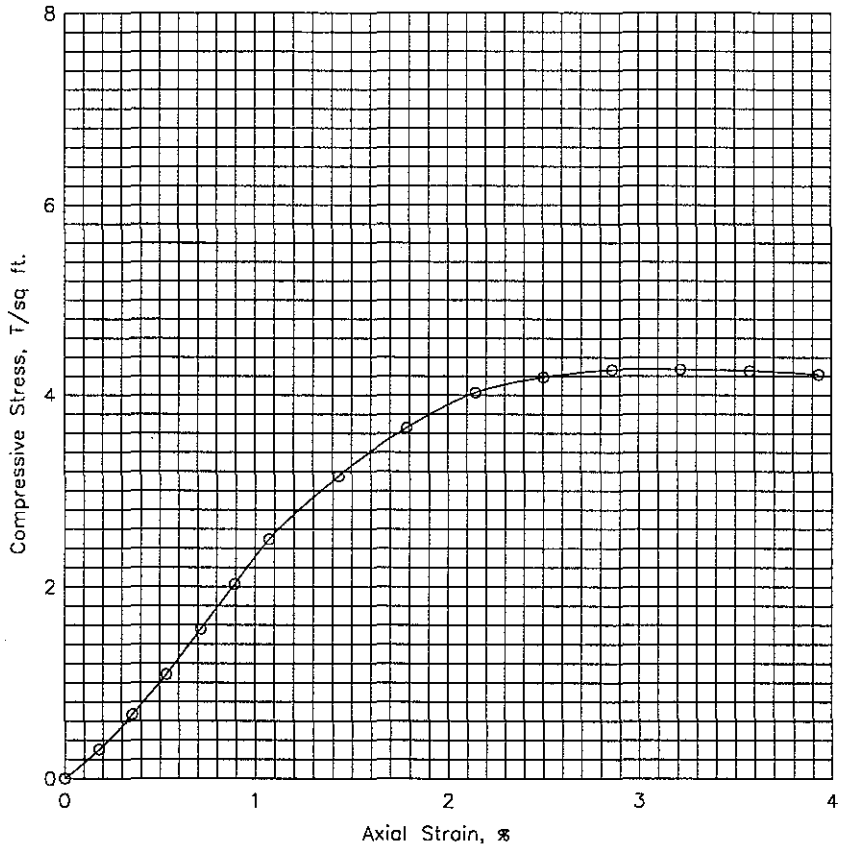
Specific Gravity of Solids
LL = 26 PL = 16 PI = 10

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	35.0	26.5	.002	6.30	.303
.3	20.	.020	77.0	58.3	.004	6.31	.665
.5	30.	.030	126.0	95.4	.005	6.32	1.086
.7	40.	.040	181.0	137.0	.007	6.34	1.557
.9	50.	.050	236.0	178.7	.009	6.35	2.027
1.0	60.	.060	291.0	220.3	.011	6.36	2.494
1.4	80.	.080	369.0	279.3	.014	6.38	3.152
1.7	100.	.100	430.0	325.5	.018	6.40	3.659
2.0	120.	.120	475.0	359.6	.021	6.43	4.028
2.3	140.	.140	496.0	375.5	.025	6.45	4.190
2.7	160.	.160	507.0	383.8	.029	6.48	4.267
3.0	180.	.180	509.0	385.3	.032	6.50	4.269
3.3	200.	.200	509.5	385.7	.036	6.52	4.257
3.6	220.	.220	507.0	383.8	.039	6.55	4.220

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	12.3 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	112.4			
Time to failure, min		t_f	2.98			
Unconfined compressive strength, T/sq ft		q_u	4.27			
Undrained shear strength, T/sq ft		S_u	2.13			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,Hard,Yellowish gary

LL	26	PL	16	PI	10	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-84 | Sample No. 5

Depth El 8-10 ft | Date 3/9/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/9/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-84 SAMPLE NO. 9 DEPTH 16-18 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/sand seams,Very stiff,Yellowish gary

Tare No.	HP19	Height	5.595 in.
Tare plus Wet Specimen	405.05 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	346.98 gm	Initial Area	6.290 sq in.
Water Weight	58.07 gm	Volume	35.194 cu in.
Tare Weight	43.82 gm	Volume of Solids	cu in.
Wet Specimen	1165.94 gm	Void Ratio	
Dry Specimen	978.51 gm	Saturation	%
Water Content	19.15 %	Dry Density	105.9 lb/cu ft
Specific Gravity of Solids			

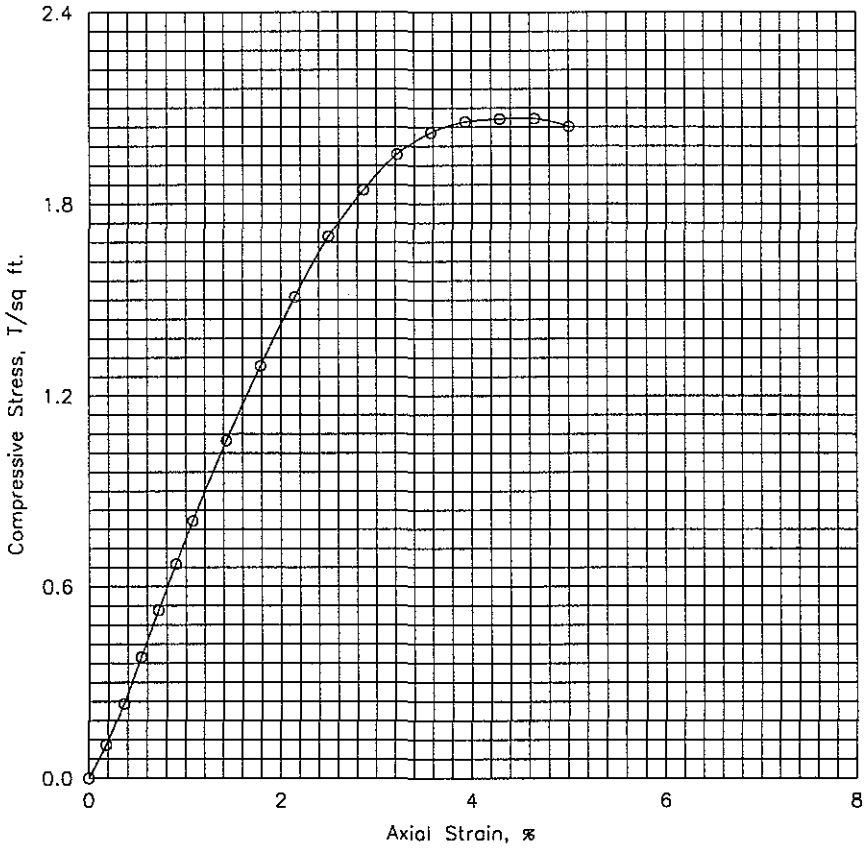
LL = 27 PL = 16 PI = 11

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	12.0	9.1	.002	6.30	.104
.4	20.	.020	27.0	20.4	.004	6.31	.233
.5	30.	.030	44.0	33.3	.005	6.32	.379
.7	40.	.040	61.0	46.2	.007	6.34	.525
.9	50.	.050	78.0	59.0	.009	6.35	.670
1.0	60.	.060	94.0	71.2	.011	6.36	.806
1.4	80.	.080	124.0	93.9	.014	6.38	1.059
1.7	100.	.100	152.0	115.1	.018	6.40	1.294
2.0	120.	.120	178.0	134.7	.021	6.43	1.509
2.3	140.	.140	201.0	152.2	.025	6.45	1.698
2.7	160.	.160	219.0	165.8	.029	6.48	1.843
3.0	180.	.180	233.0	176.4	.032	6.50	1.954
3.3	200.	.200	242.0	183.2	.036	6.52	2.022
3.7	220.	.220	247.0	187.0	.039	6.55	2.056
4.0	240.	.240	249.0	188.5	.043	6.57	2.065
4.3	260.	.260	250.0	189.3	.046	6.60	2.066
4.7	280.	.280	248.0	187.7	.050	6.62	2.041

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	19.2 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	105.9			
Time to failure, min		t_f	4.32			
Unconfined compressive strength, T/sq ft		q_u	2.07			
Undrained shear strength, T/sq ft		S_u	1.03			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,w/sand seams,Very stiff,Yellowish gary

LL	27	PL	16	PI	11	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-84 | Sample No. 9

Depth El 16-18 ft | Date 3/9/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/9/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-84 SAMPLE NO. 13 DEPTH 28-30 ft

SPECIMEN NO. 1

CLASSIFICATION
Silty Clay,w/sand seams,Stiff,Red & Gary

Tare No.	IB4	Height	5.595 in.
Tare plus Wet Specimen	337.11 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	265.80 gm	Initial Area	6.290 sq in.
Water Weight	71.31 gm	Volume	35.194 cu in.
Tare Weight	42.96 gm	Volume of Solids	cu in.
Wet Specimen	1075.16 gm	Void Ratio	
Dry Specimen	814.51 gm	Saturation	%
Water Content	32.00 %	Dry Density	88.2 lb/cu ft

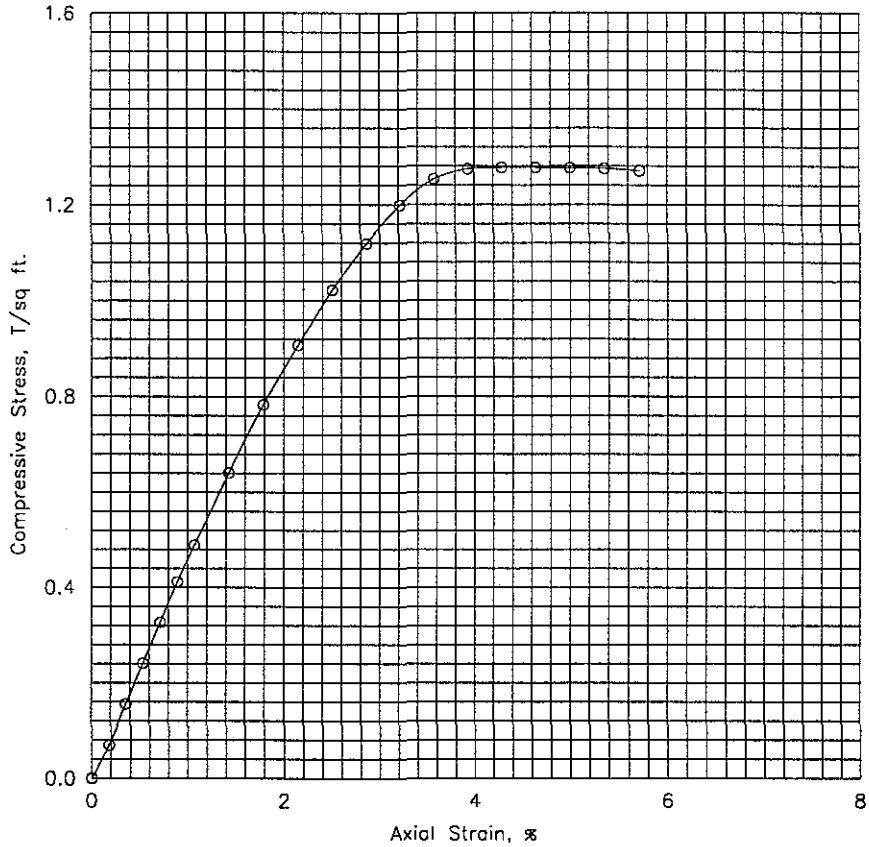
Specific Gravity of Solids
LL = 33 PL = 17 PI = 16

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	8.0	6.1	.002	6.30	.069
.3	20.	.020	18.0	13.6	.004	6.31	.155
.5	30.	.030	28.0	21.2	.005	6.32	.241
.7	40.	.040	38.0	28.8	.007	6.34	.327
.9	50.	.050	48.0	36.3	.009	6.35	.412
1.0	60.	.060	57.0	43.1	.011	6.36	.489
1.3	80.	.080	75.0	56.8	.014	6.38	.641
1.6	100.	.100	92.0	69.6	.018	6.40	.783
2.0	120.	.120	107.0	81.0	.021	6.43	.907
2.3	140.	.140	121.0	91.6	.025	6.45	1.022
2.6	160.	.160	133.0	100.7	.029	6.48	1.119
3.0	180.	.180	143.0	108.3	.032	6.50	1.199
3.3	200.	.200	150.0	113.6	.036	6.52	1.253
3.6	220.	.220	153.0	115.8	.039	6.55	1.274
4.0	240.	.240	154.0	116.6	.043	6.57	1.277
4.3	260.	.260	154.5	117.0	.046	6.60	1.277
4.6	280.	.280	155.0	117.3	.050	6.62	1.276
5.0	300.	.300	155.5	117.7	.054	6.65	1.275
5.3	320.	.320	155.5	117.7	.057	6.67	1.270

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	32.0 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	88.2			
Time to failure, min		t_f	3.95			
Unconfined compressive strength, T/sq ft		q_u	1.28			
Undrained shear strength, T/sq ft		S_u	.64			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Silty Clay,w/sand seams,Stiff,Red & Gary

LL	33	PL	17	PI	16	G_s

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-84 | Sample No. 13

Depth El 28-30 ft | Date 3/9/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/14/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-85 SAMPLE NO. 6 DEPTH 10-12 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/fer nod & fer stains,Stiff,Yellowish gary

Tare No.	S2	Height	5.595 in.
Tare plus Wet Specimen	491.21 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	450.38 gm	Initial Area	6.290 sq in.
Water Weight	40.83 gm	Volume	35.194 cu in.
Tare Weight	167.68 gm	Volume of Solids	cu in.
Wet Specimen	1055.83 gm	Void Ratio	
Dry Specimen	922.58 gm	Saturation	%
Water Content	14.44 %	Dry Density	99.9 lb/cu ft

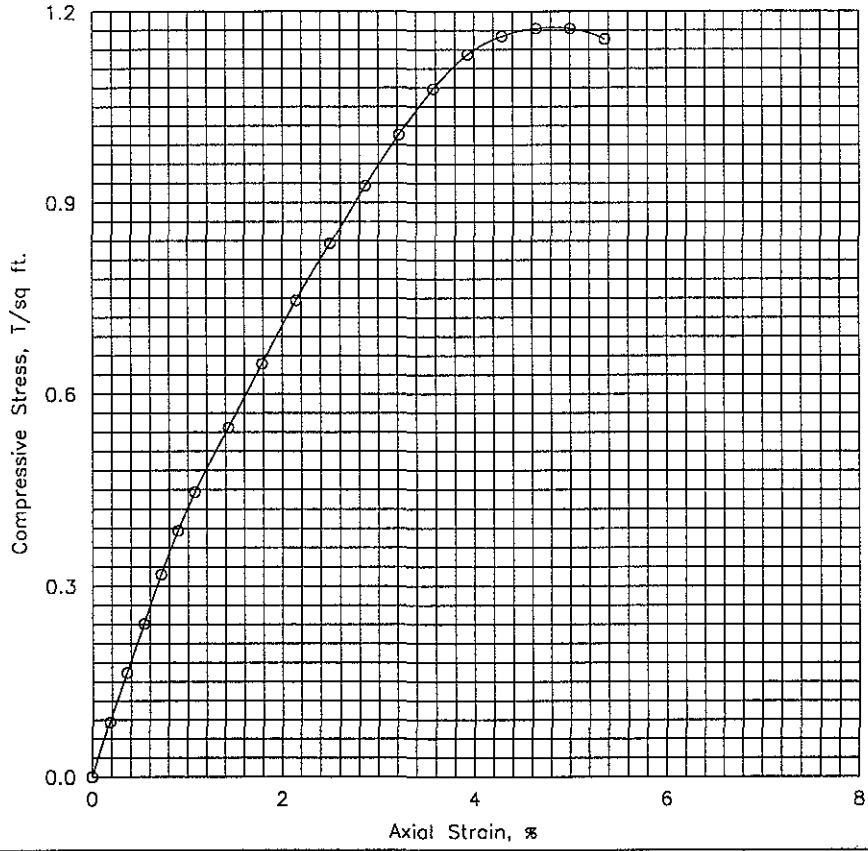
Specific Gravity of Solids
LL = 31 PL = 15 PI = 16

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	10.0	7.6	.002	6.30	.086
.3	20.	.020	19.0	14.4	.004	6.31	.164
.5	30.	.030	28.0	21.2	.005	6.32	.241
.7	40.	.040	37.0	28.0	.007	6.34	.318
.9	50.	.050	45.0	34.1	.009	6.35	.386
1.0	60.	.060	52.0	39.4	.011	6.36	.446
1.4	80.	.080	64.0	48.4	.014	6.38	.547
1.7	100.	.100	76.0	57.5	.018	6.40	.647
2.0	120.	.120	88.0	66.6	.021	6.43	.746
2.3	140.	.140	99.0	74.9	.025	6.45	.836
2.7	160.	.160	110.0	83.3	.029	6.48	.926
3.0	180.	.180	120.0	90.8	.032	6.50	1.006
3.3	200.	.200	129.0	97.7	.036	6.52	1.078
3.7	220.	.220	136.0	103.0	.039	6.55	1.132
4.0	240.	.240	140.0	106.0	.043	6.57	1.161
4.3	260.	.260	142.0	107.5	.046	6.60	1.173
4.7	280.	.280	142.5	107.9	.050	6.62	1.173
5.0	300.	.300	141.0	106.7	.054	6.65	1.156

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	14.4 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	99.9			
Time to failure, min		t_f	4.32			
Unconfined compressive strength, T/sq ft		q_u	1.17			
Undrained shear strength, T/sq ft		S_u	.59			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,w/fer nod & fer stains,Stiff,Yellowish gary

LL	31	PL	15	PI	16	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-85 | Sample No. 6

Depth El 10-12 ft | Date 3/14/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/14/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-85 SAMPLE NO. 15 DEPTH 36-38 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,w/calc nod & blocky structure,Hard,Red & Gray

Tare No.	S3	Height	5.595 in.
Tare plus Wet Specimen	417.99 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	366.73 gm	Initial Area	6.290 sq in.
Water Weight	51.26 gm	Volume	35.194 cu in.
Tare Weight	167.55 gm	Volume of Solids	cu in.
Wet Specimen	1178.92 gm	Void Ratio	
Dry Specimen	937.62 gm	Saturation	%
Water Content	25.74 %	Dry Density	101.5 lb/cu ft
Specific Gravity of Solids			

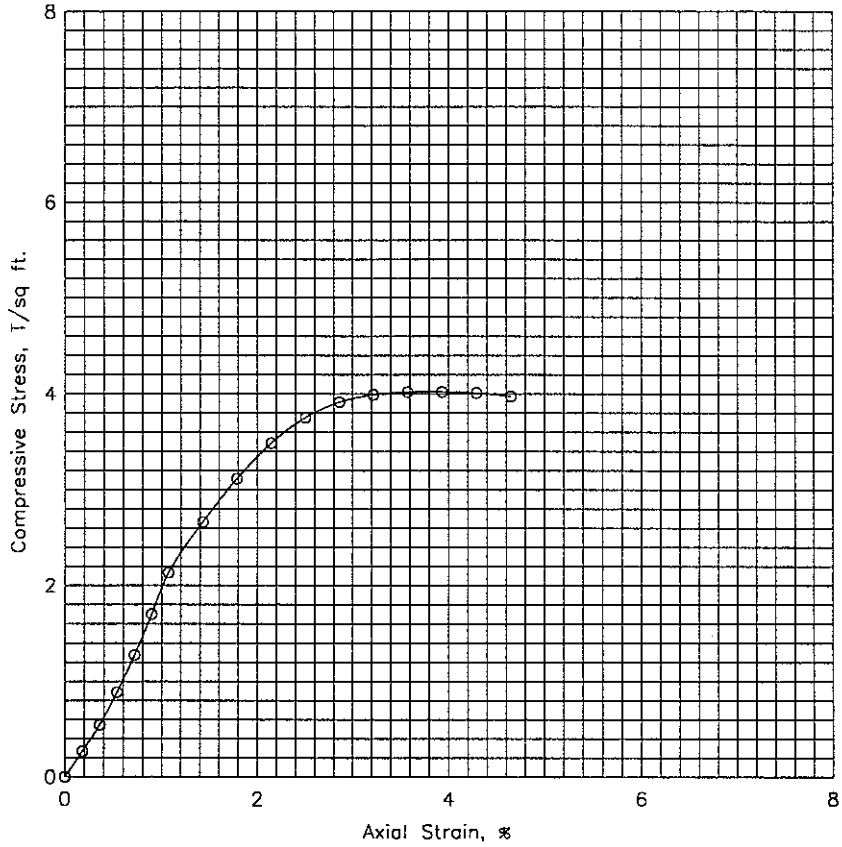
LL = 61 PL = 24 PI = 37

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	31.0	23.5	.002	6.30	.268
.3	20.	.020	63.0	47.7	.004	6.31	.544
.5	30.	.030	103.0	78.0	.005	6.32	.888
.7	40.	.040	148.0	112.0	.007	6.34	1.273
.9	50.	.050	198.0	149.9	.009	6.35	1.700
1.0	60.	.060	249.0	188.5	.011	6.36	2.134
1.3	80.	.080	312.0	236.2	.014	6.38	2.665
1.6	100.	.100	366.0	277.1	.018	6.40	3.115
2.0	120.	.120	411.0	311.1	.021	6.43	3.485
2.3	140.	.140	444.0	336.1	.025	6.45	3.751
2.6	160.	.160	465.0	352.0	.029	6.48	3.914
3.0	180.	.180	476.0	360.3	.032	6.50	3.992
3.3	200.	.200	481.0	364.1	.036	6.52	4.019
3.6	220.	.220	483.0	365.6	.039	6.55	4.021
4.0	240.	.240	483.5	366.0	.043	6.57	4.010
4.3	260.	.260	481.0	364.1	.046	6.60	3.974

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	25.7 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	101.5			
Time to failure, min		t_f	3.62			
Unconfined compressive strength, T/sq ft		q_u	4.02			
Undrained shear strength, T/sq ft		S_u	2.01			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,w/calc nod & blocky structure,Hard,Red & Gray

LL	61	PL	24	PI	37	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-85 | Sample No. 15

Depth El 36-38 ft | Date 3/14/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/14/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-85 SAMPLE NO. 20 DEPTH 46-48 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,Hard,Red & Gray

Tare No.	HP8	Height	5.595 in.
Tare plus Wet Specimen	344.98 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	299.40 gm	Initial Area	6.290 sq in.
Water Weight	45.58 gm	Volume	35.194 cu in.
Tare Weight	43.36 gm	Volume of Solids	cu in.
Wet Specimen	1184.97 gm	Void Ratio	
Dry Specimen	1005.90 gm	Saturation	%
Water Content	17.80 %	Dry Density	108.9 lb/cu ft
Specific Gravity of Solids			

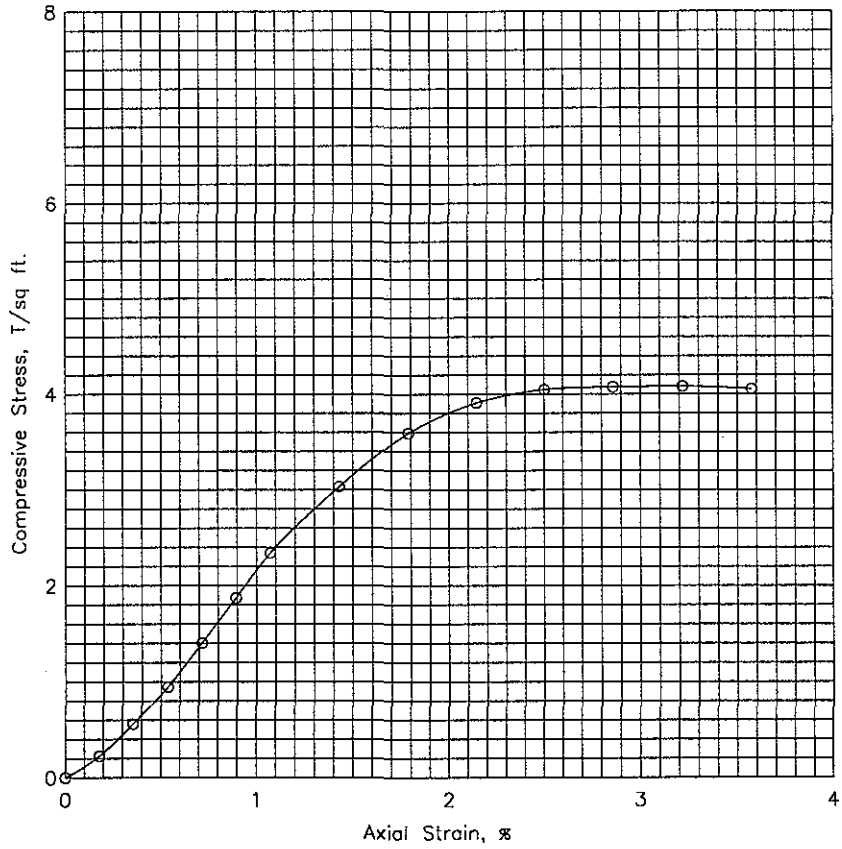
LL = 31 PL = 17 PI = 14

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	26.0	19.7	.002	6.30	.225
.3	20.	.020	65.0	49.2	.004	6.31	.561
.5	30.	.030	110.0	83.3	.005	6.32	.948
.7	40.	.040	163.0	123.4	.007	6.34	1.402
.9	50.	.050	218.0	165.0	.009	6.35	1.872
1.0	60.	.060	273.0	206.7	.011	6.36	2.340
1.3	80.	.080	355.0	268.7	.014	6.38	3.032
1.6	100.	.100	422.0	319.5	.018	6.40	3.591
2.0	120.	.120	461.0	349.0	.021	6.43	3.909
2.3	140.	.140	479.0	362.6	.025	6.45	4.047
2.6	160.	.160	484.0	366.4	.029	6.48	4.074
3.0	180.	.180	486.5	368.3	.032	6.50	4.080
3.3	200.	.200	485.0	367.1	.036	6.52	4.052

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	17.8 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	108.9			
Time to failure, min		t_f	2.97			
Unconfined compressive strength, T/sq ft		q_u	4.08			
Undrained shear strength, T/sq ft		S_u	2.04			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,Hard,Red & Gray

LL	31	PL	17	PI	14	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-85 | Sample No. 20

Depth El 46-48 ft | Date 3/14/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/8/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-86 SAMPLE NO. 5 DEPTH 8-10 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/fer nod,Very stiff,Gray

Tare No.	IB1B	Height	5.595 in.
Tare plus Wet Specimen	164.09 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	150.12 gm	Initial Area	6.290 sq in.
Water Weight	13.97 gm	Volume	35.194 cu in.
Tare Weight	42.65 gm	Volume of Solids	cu in.
Wet Specimen	1145.37 gm	Void Ratio	
Dry Specimen	1013.61 gm	Saturation	%
Water Content	13.00 %	Dry Density	109.7 lb/cu ft
Specific Gravity of Solids			

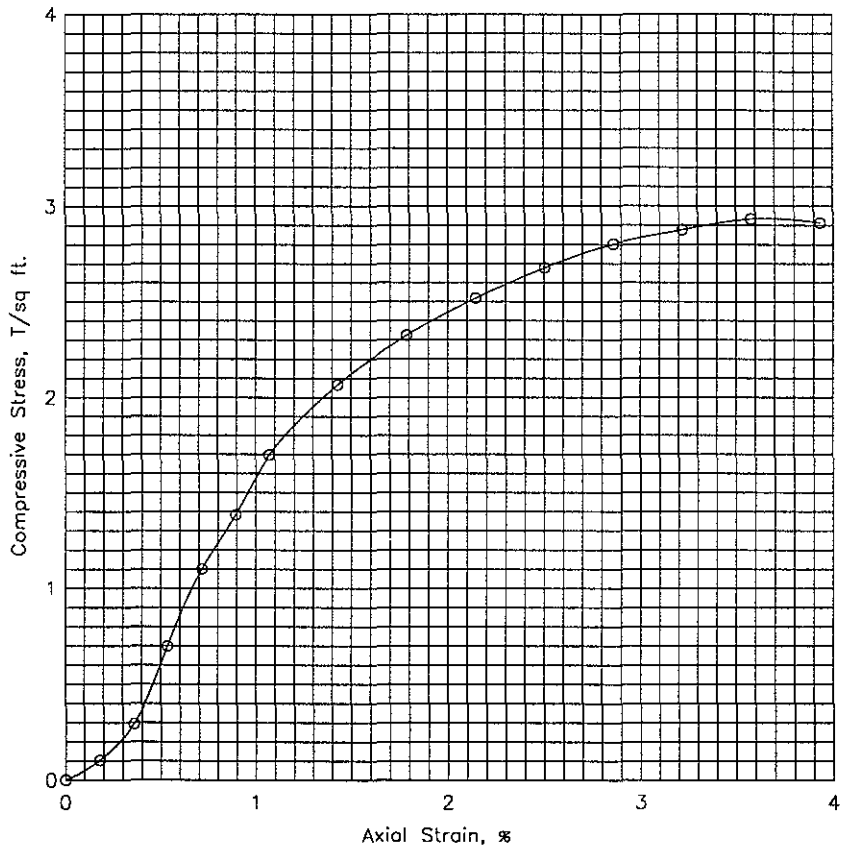
LL = 23 PL = 14 PI = 9

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	12.0	9.1	.002	6.30	.104
.4	20.	.020	34.0	25.7	.004	6.31	.294
.5	30.	.030	81.0	61.3	.005	6.32	.698
.7	40.	.040	128.0	96.9	.007	6.34	1.101
.9	50.	.050	161.0	121.9	.009	6.35	1.383
1.1	60.	.060	198.0	149.9	.011	6.36	1.697
1.4	80.	.080	242.0	183.2	.014	6.38	2.067
1.7	100.	.100	273.0	206.7	.018	6.40	2.323
2.0	120.	.120	297.0	224.8	.021	6.43	2.518
2.3	140.	.140	317.0	240.0	.025	6.45	2.678
2.7	160.	.160	333.0	252.1	.029	6.48	2.803
3.0	180.	.180	343.0	259.7	.032	6.50	2.876
3.3	200.	.200	351.0	265.7	.036	6.52	2.933
3.7	220.	.220	350.0	265.0	.039	6.55	2.913

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.		1			
Type of Specimen		Undisturbed			
Initial: Water content	w_0	13.0 %	%	%	%
Initial: Void ratio	e_0				
Initial: Saturation	S_0	%	%	%	%
Initial: Dry density, lb/cu ft	γ_d	109.7			
Time to failure, min	t_f	3.35			
Unconfined compressive strength, T/sq ft	q_u	2.93			
Undrained shear strength, T/sq ft	S_u	1.47			
Sensitivity ratio	S_t				
Initial specimen diameter, in.	D_0	2.830			
Initial specimen height, in.	H_0	5.595			

Classification Sandy Clay,w/fer nod,Very stiff,Gray

LL	23	PL	14	PI	9	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-86 | Sample No. 5

Depth 8-10 ft | Date 3/8/98

El

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

JOB NO. 114008614 DATE 3/8/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-86 SAMPLE NO. 10 DEPTH 18-20 ft

SPECIMEN NO. 1

CLASSIFICATION
Silty Clay,Very stiff,Red & Gray

Tare No.	HP34	Height	5.595 in.
Tare plus Wet Specimen	298.60 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	250.57 gm	Initial Area	6.290 sq in.
Water Weight	48.03 gm	Volume	35.194 cu in.
Tare Weight	43.24 gm	Volume of Solids	cu in.
Wet Specimen	1137.38 gm	Void Ratio	
Dry Specimen	923.45 gm	Saturation	%
Water Content	23.17 %	Dry Density	100.0 lb/cu ft

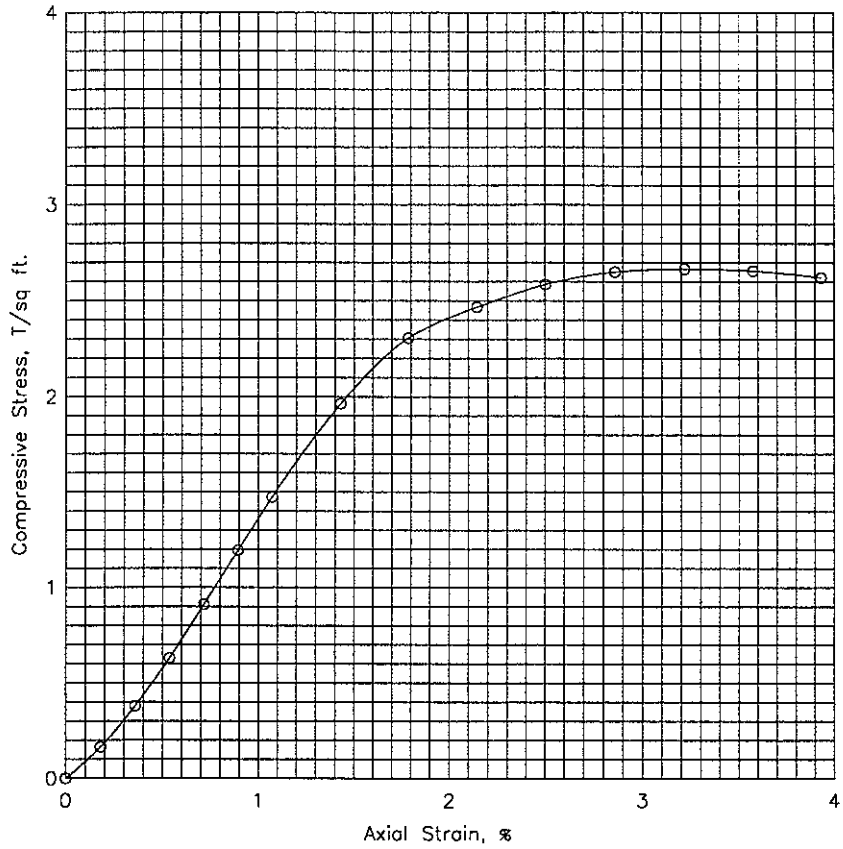
Specific Gravity of Solids
LL = 45 PL = 18 PI = 27

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	19.0	14.4	.002	6.30	.164
.3	20.	.020	44.0	33.3	.004	6.31	.380
.5	30.	.030	73.0	55.3	.005	6.32	.629
.7	40.	.040	106.0	80.2	.007	6.34	.912
.9	50.	.050	139.0	105.2	.009	6.35	1.194
1.0	60.	.060	172.0	130.2	.011	6.36	1.474
1.4	80.	.080	230.0	174.1	.014	6.38	1.964
1.7	100.	.100	271.0	205.1	.018	6.40	2.306
2.0	120.	.120	291.0	220.3	.021	6.43	2.467
2.3	140.	.140	306.0	231.6	.025	6.45	2.585
2.7	160.	.160	315.0	238.5	.029	6.48	2.651
3.0	180.	.180	318.0	240.7	.032	6.50	2.667
3.3	200.	.200	318.0	240.7	.036	6.52	2.657
3.7	220.	.220	315.0	238.5	.039	6.55	2.622

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	23.2 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	100.0			
Time to failure, min		t_f	3.00			
Unconfined compressive strength, T/sq ft		q_u	2.67			
Undrained shear strength, T/sq ft		S_u	1.33			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Silty Clay,Very stiff,Red & Gray

LL	45	PL	18	PI	27	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-86 | Sample No. 10

Depth El 18-20 ft | Date 3/8/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

JOB NO. 114008614 DATE 3/8/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-86 SAMPLE NO. 20 DEPTH 40-42 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,w/calc nod & blocky structure,slks,Very stiff,Red & Gray

Tare No.	KL-14	Height	5.595 in.
Tare plus Wet Specimen	288.19 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	251.80 gm	Initial Area	6.290 sq in.
Water Weight	36.39 gm	Volume	35.194 cu in.
Tare Weight	42.53 gm	Volume of Solids	cu in.
Wet Specimen	1196.59 gm	Void Ratio	
Dry Specimen	1019.34 gm	Saturation	%
Water Content	17.39 %	Dry Density	110.3 lb/cu ft
Specific Gravity of Solids			

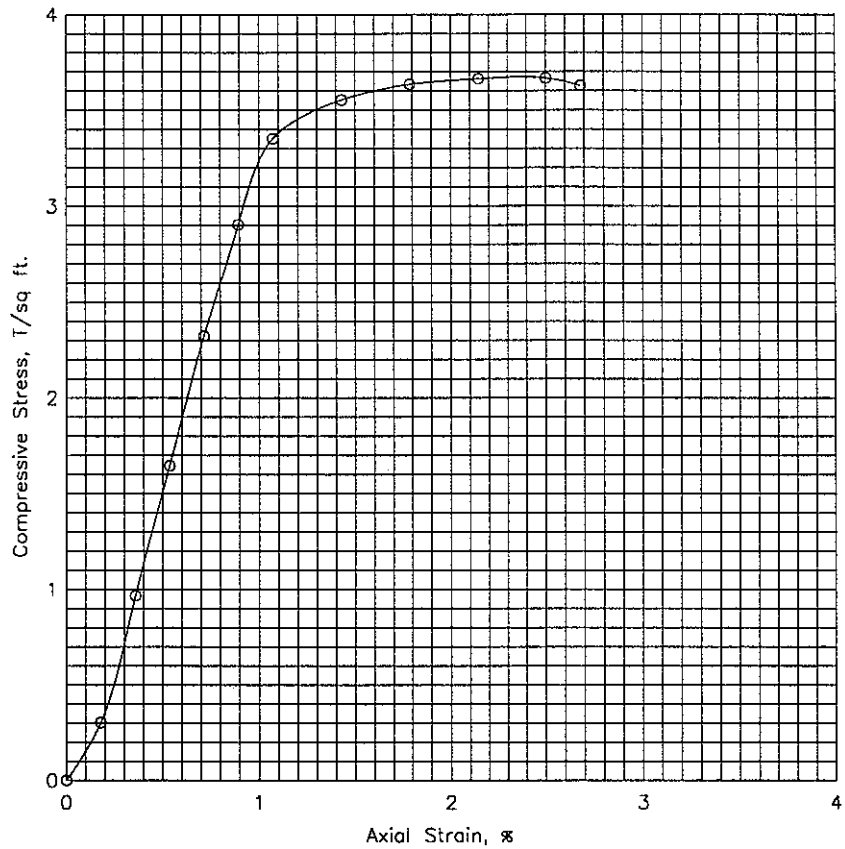
LL = 58 PL = 23 PI = 35

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	35.0	26.5	.002	6.30	.303
.3	20.	.020	112.0	84.8	.004	6.31	.967
.5	30.	.030	191.0	144.6	.005	6.32	1.646
.7	40.	.040	270.0	204.4	.007	6.34	2.323
.9	50.	.050	338.0	255.9	.009	6.35	2.903
1.0	60.	.060	391.0	296.0	.011	6.36	3.352
1.4	80.	.080	416.0	314.9	.014	6.38	3.553
1.7	100.	.100	427.0	323.2	.018	6.40	3.634
2.0	120.	.120	432.0	327.0	.021	6.43	3.663
2.3	140.	.140	434.0	328.5	.025	6.45	3.666
2.6	150.	.150	430.0	325.5	.027	6.46	3.626

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	17.4 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	110.3			
Time to failure, min		t_f	2.33			
Unconfined compressive strength, T/sq ft		q_u	3.67			
Undrained shear strength, T/sq ft		S_u	1.83			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,w/calc nod & blocky structure,slks,Very stiff,Red & Gray

LL	58	PL	23	PI	35	G_s

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-86 | Sample No. 20

Depth El 40-42 ft | Date 3/8/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/11/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-87 SAMPLE NO. 3 DEPTH 4-6 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/calc & fer nod,Stiff,Gray

Tare No.	P211	Height	5.595 in.
Tare plus Wet Specimen	336.93 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	298.67 gm	Initial Area	6.290 sq in.
Water Weight	38.26 gm	Volume	35.194 cu in.
Tare Weight	42.57 gm	Volume of Solids	cu in.
Wet Specimen	1154.55 gm	Void Ratio	
Dry Specimen	1004.49 gm	Saturation	%
Water Content	14.94 %	Dry Density	108.7 lb/cu ft
Specific Gravity of Solids			

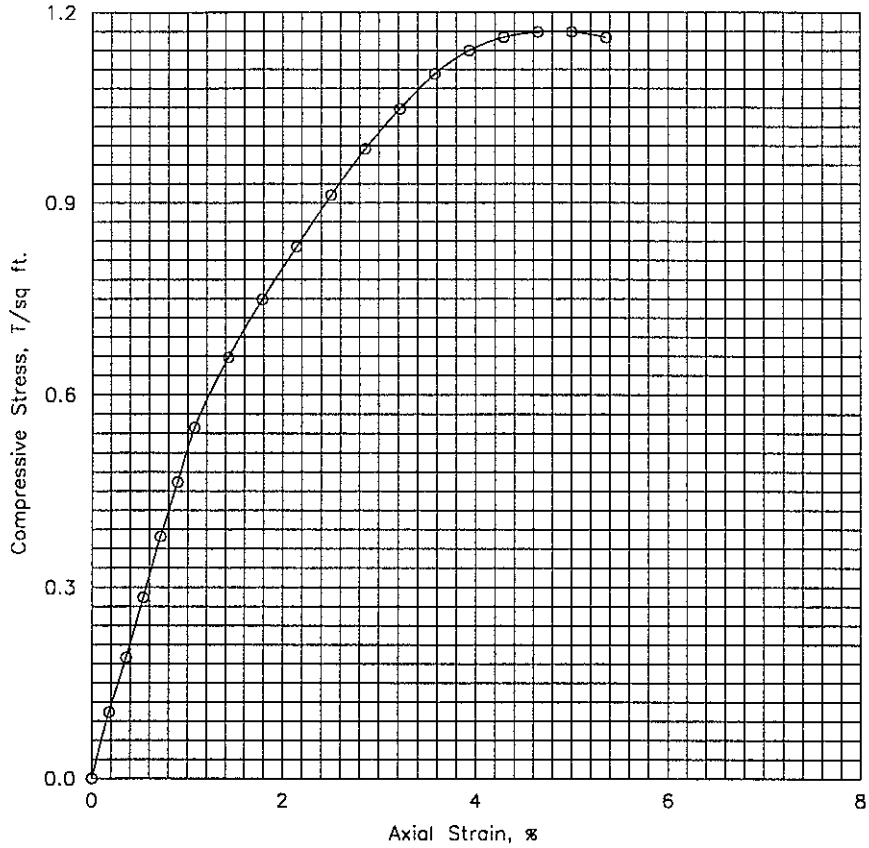
LL = 30 PL = 16 PI = 14

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	12.0	9.1	.002	6.30	.104
.4	20.	.020	22.0	16.7	.004	6.31	.190
.6	30.	.030	33.0	25.0	.005	6.32	.284
.7	40.	.040	44.0	33.3	.007	6.34	.379
.9	50.	.050	54.0	40.9	.009	6.35	.464
1.0	60.	.060	64.0	48.4	.011	6.36	.549
1.3	80.	.080	77.0	58.3	.014	6.38	.658
1.6	100.	.100	88.0	66.6	.018	6.40	.749
2.0	120.	.120	98.0	74.2	.021	6.43	.831
2.3	140.	.140	108.0	81.8	.025	6.45	.912
2.7	160.	.160	117.0	88.6	.029	6.48	.985
3.0	180.	.180	125.0	94.6	.032	6.50	1.048
3.3	200.	.200	132.0	99.9	.036	6.52	1.103
3.6	220.	.220	137.0	103.7	.039	6.55	1.140
4.0	240.	.240	140.0	106.0	.043	6.57	1.161
4.3	260.	.260	141.5	107.1	.046	6.60	1.169
4.7	280.	.280	142.0	107.5	.050	6.62	1.169
5.0	300.	.300	141.5	107.1	.054	6.65	1.160

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	14.9 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	108.7			
Time to failure, min		t_f	4.32			
Unconfined compressive strength, T/sq ft		q_u	1.17			
Undrained shear strength, T/sq ft		S_u	.58			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,w/calc & fer nod,Stiff,Gray

LL	30	PL	16	PI	14	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-87 | Sample No. 3

Depth El 4-6 ft | Date 3/11/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

JOB NO. 114008614 DATE 3/11/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-87 SAMPLE NO. 10 DEPTH 18-20 ft

SPECIMEN NO. 1

CLASSIFICATION
Silty Clay,Very stiff,Brown & Gray

Tare No.	S1	Height	5.595 in.
Tare plus Wet Specimen	447.18 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	403.18 gm	Initial Area	6.290 sq in.
Water Weight	44.00 gm	Volume	35.194 cu in.
Tare Weight	167.57 gm	Volume of Solids	cu in.
Wet Specimen	1145.18 gm	Void Ratio	
Dry Specimen	964.97 gm	Saturation	%
Water Content	18.67 %	Dry Density	104.5 lb/cu ft
Specific Gravity of Solids			

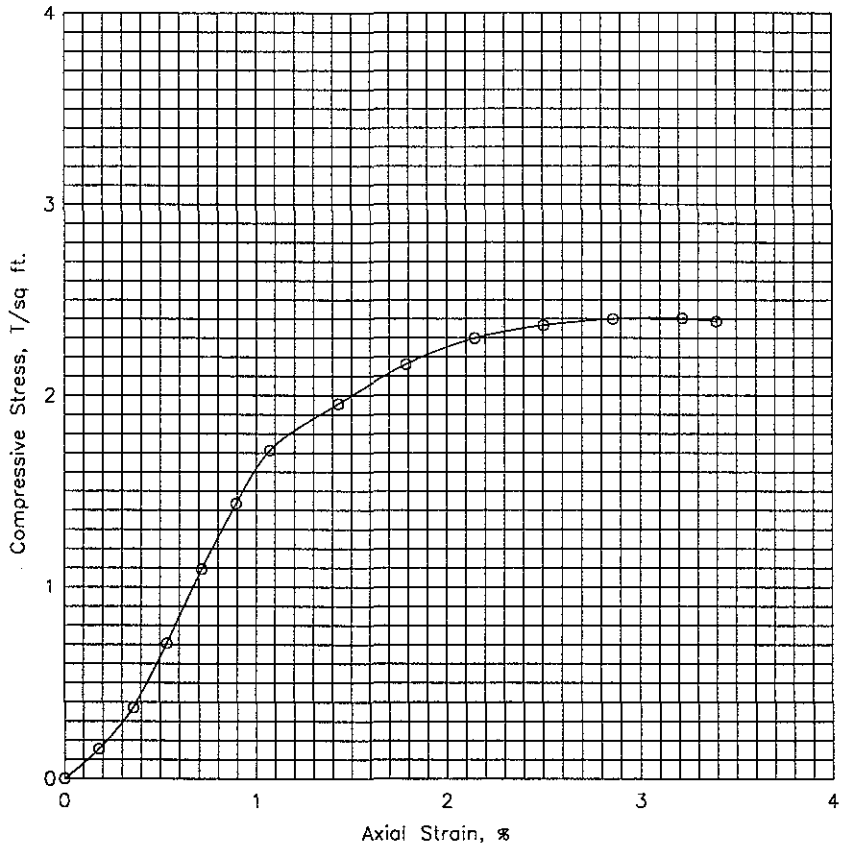
LL = 31 PL = 20 PI = 11

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	18.0	13.6	.002	6.30	.156
.3	20.	.020	43.0	32.6	.004	6.31	.371
.5	30.	.030	82.0	62.1	.005	6.32	.707
.7	40.	.040	127.0	96.1	.007	6.34	1.093
.9	50.	.050	167.0	126.4	.009	6.35	1.434
1.0	60.	.060	200.0	151.4	.011	6.36	1.714
1.3	80.	.080	229.0	173.4	.014	6.38	1.956
1.6	100.	.100	254.0	192.3	.018	6.40	2.162
2.0	120.	.120	271.0	205.1	.021	6.43	2.298
2.3	140.	.140	280.0	212.0	.025	6.45	2.365
2.6	160.	.160	285.0	215.7	.029	6.48	2.399
3.0	180.	.180	286.5	216.9	.032	6.50	2.403
3.2	190.	.190	285.0	215.7	.034	6.51	2.386

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.		1			
Type of Specimen		Undisturbed			
Initial: Water content	w_0	18.7 %	%	%	%
Initial: Void ratio	e_0				
Initial: Saturation	S_0	%	%	%	%
Initial: Dry density, lb/cu ft	γ_d	104.5			
Time to failure, min	t_f	2.98			
Unconfined compressive strength, T/sq ft	q_u	2.40			
Undrained shear strength, T/sq ft	S_u	1.20			
Sensitivity ratio	S_t				
Initial specimen diameter, in.	D_0	2.830			
Initial specimen height, in.	H_0	5.595			

Classification Silty Clay,Very stiff,Brown & Gray

LL	31	PL	20	PI	11	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-87 | Sample No. 10

Depth 18-20 ft | Date 3/11/98
El

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/11/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-87 SAMPLE NO. 27 DEPTH 54-56 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,w/calc nod,Hard,Red & Gray

Tare No.	S5	Height	5.595 in.
Tare plus Wet Specimen	414.31 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	375.35 gm	Initial Area	6.290 sq in.
Water Weight	38.96 gm	Volume	35.194 cu in.
Tare Weight	162.04 gm	Volume of Solids	cu in.
Wet Specimen	1186.11 gm	Void Ratio	
Dry Specimen	1002.93 gm	Saturation	%
Water Content	18.26 %	Dry Density	108.6 lb/cu ft
Specific Gravity of Solids			

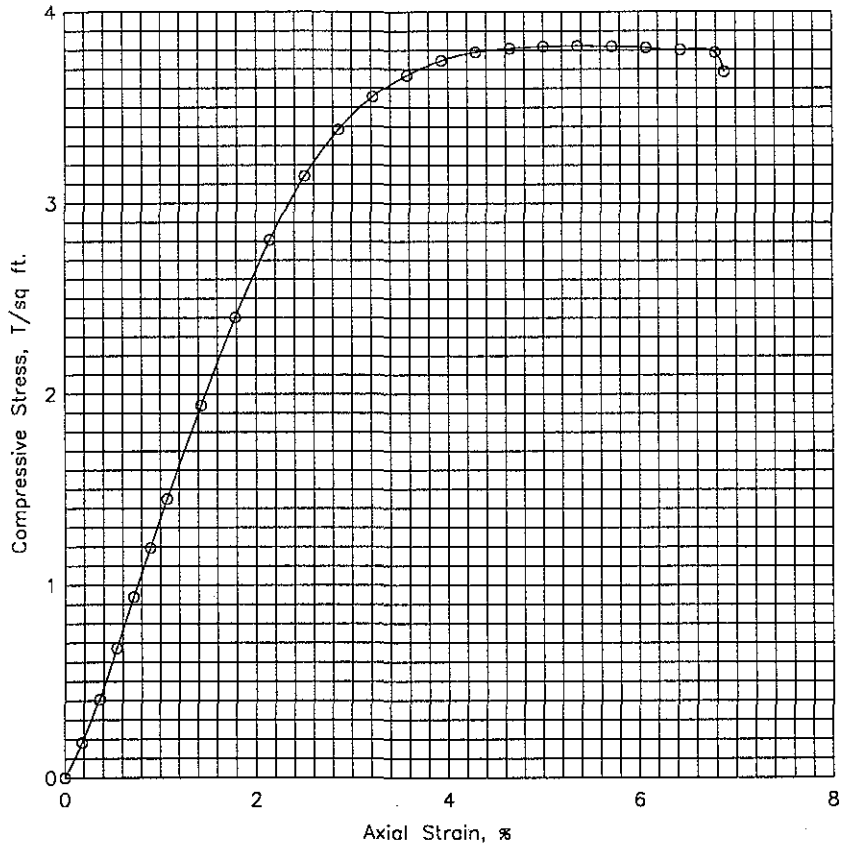
LL = 55 PL = 21 PI = 34

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	21.0	15.9	.002	6.30	.182
.4	20.	.020	47.0	35.6	.004	6.31	.406
.5	30.	.030	78.0	59.0	.005	6.32	.672
.7	40.	.040	109.0	82.5	.007	6.34	.938
.9	50.	.050	139.0	105.2	.009	6.35	1.194
1.1	60.	.060	169.0	127.9	.011	6.36	1.449
1.4	80.	.080	227.0	171.8	.014	6.38	1.939
1.7	100.	.100	282.0	213.5	.018	6.40	2.400
2.0	120.	.120	331.0	250.6	.021	6.43	2.807
2.3	140.	.140	372.0	281.6	.025	6.45	3.143
2.7	160.	.160	402.0	304.3	.029	6.48	3.384
3.0	180.	.180	424.0	321.0	.032	6.50	3.556
3.3	200.	.200	439.0	332.3	.036	6.52	3.668
3.7	220.	.220	450.0	340.7	.039	6.55	3.746
4.0	240.	.240	457.0	345.9	.043	6.57	3.790
4.3	260.	.260	461.0	349.0	.046	6.60	3.809
4.6	280.	.280	464.0	351.2	.050	6.62	3.819
4.9	300.	.300	466.0	352.8	.054	6.65	3.821
5.3	320.	.320	467.5	353.9	.057	6.67	3.819
5.6	340.	.340	468.5	354.7	.061	6.70	3.813
5.9	360.	.360	469.0	355.0	.064	6.72	3.802
6.3	380.	.380	469.0	355.0	.068	6.75	3.788
6.3	385.	.385	457.0	345.9	.069	6.75	3.687

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	18.3 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	108.6			
Time to failure, min		t_f	4.95			
Unconfined compressive strength, T/sq ft		q_u	3.82			
Undrained shear strength, T/sq ft		S_u	1.91			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,w/calc nod,Hard,Red & Gray

LL	55	PL	21	PI	34	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-87 | Sample No. 27

Depth El 54-56 ft | Date 3/11/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 2/28/98

OJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-88 SAMPLE NO. 5 DEPTH 8-10 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/fer nod & sand seams,Stiff,Gray&Yellowish gray

Tare No.	IB-17	Height	5.595 in.
Tare plus Wet Specimen	452.14 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	390.69 gm	Initial Area	6.290 sq in.
Water Weight	61.45 gm	Volume	35.194 cu in.
Tare Weight	43.86 gm	Volume of Solids	cu in.
Wet Specimen	1148.50 gm	Void Ratio	
Dry Specimen	975.64 gm	Saturation	%
Water Content	17.72 %	Dry Density	105.6 lb/cu ft

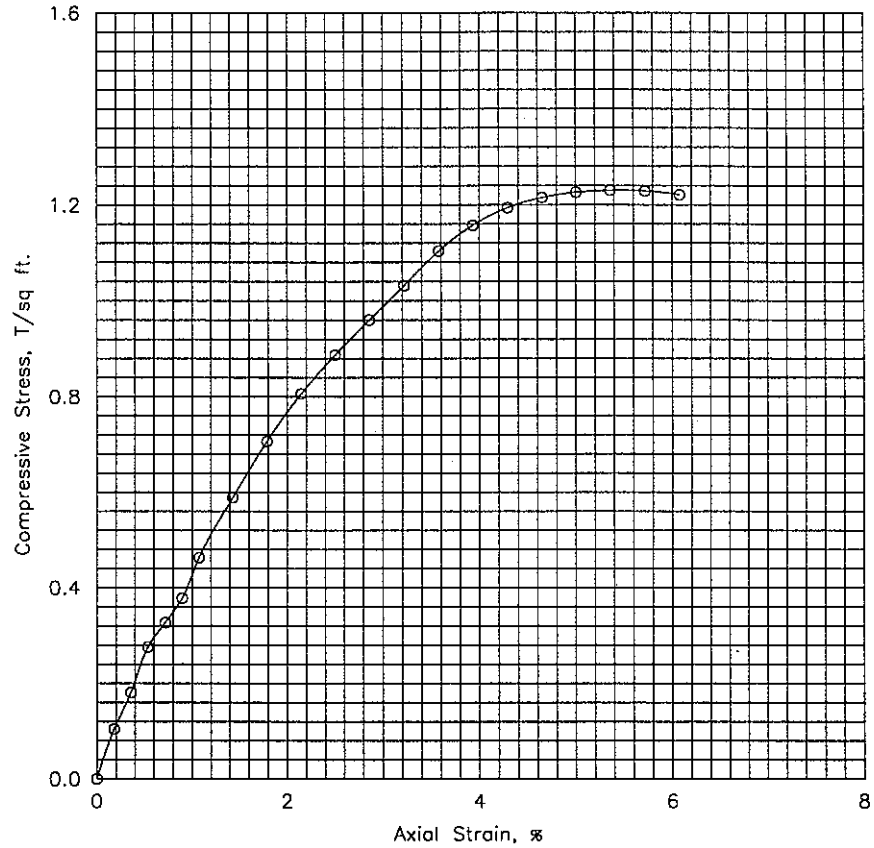
Specific Gravity of Solids
LL = 27 PL = 17 PI = 10

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	12.0	9.1	.002	6.30	.104
.4	20.	.020	21.0	15.9	.004	6.31	.181
.5	30.	.030	32.0	24.2	.005	6.32	.276
.7	40.	.040	38.0	28.8	.007	6.34	.327
.9	50.	.050	44.0	33.3	.009	6.35	.378
1.1	60.	.060	54.0	40.9	.011	6.36	.463
1.4	80.	.080	69.0	52.2	.014	6.38	.589
1.7	100.	.100	83.0	62.8	.018	6.40	.706
2.0	120.	.120	95.0	71.9	.021	6.43	.806
2.3	140.	.140	105.0	79.5	.025	6.45	.887
2.7	160.	.160	114.0	86.3	.029	6.48	.960
3.0	180.	.180	123.0	93.1	.032	6.50	1.031
3.3	200.	.200	132.0	99.9	.036	6.52	1.103
3.7	220.	.220	139.0	105.2	.039	6.55	1.157
4.0	240.	.240	144.0	109.0	.043	6.57	1.194
4.3	260.	.260	147.0	111.3	.046	6.60	1.215
4.6	280.	.280	149.0	112.8	.050	6.62	1.226
4.9	300.	.300	150.0	113.6	.054	6.65	1.230
5.3	320.	.320	150.5	113.9	.057	6.67	1.229
5.6	340.	.340	150.0	113.6	.061	6.70	1.221

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	17.7 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	105.6			
Time to failure, min		t_f	4.95			
Unconfined compressive strength, T/sq ft		q_u	1.23			
Undrained shear strength, T/sq ft		S_u	.62			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,w/fer nod & sand seams,Stiff,Gray&Yellowish gray

LL	27	PL	17	PI	10	G_s

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-88 | Sample No. 5

Depth El 8-10 ft | Date 2/28/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

JOB NO. 114008614 DATE 2/28/98

OJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-88 SAMPLE NO. 12 DEPTH 22-24 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,w/fer stains,slks,Hard,Red

Tare No.	WB1	Height	5.595 in.
Tare plus Wet Specimen	468.84 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	372.05 gm	Initial Area	6.290 sq in.
Water Weight	96.79 gm	Volume	35.194 cu in.
Tare Weight	43.63 gm	Volume of Solids	cu in.
Wet Specimen	1106.30 gm	Void Ratio	
Dry Specimen	854.47 gm	Saturation	%
Water Content	29.47 %	Dry Density	92.5 lb/cu ft

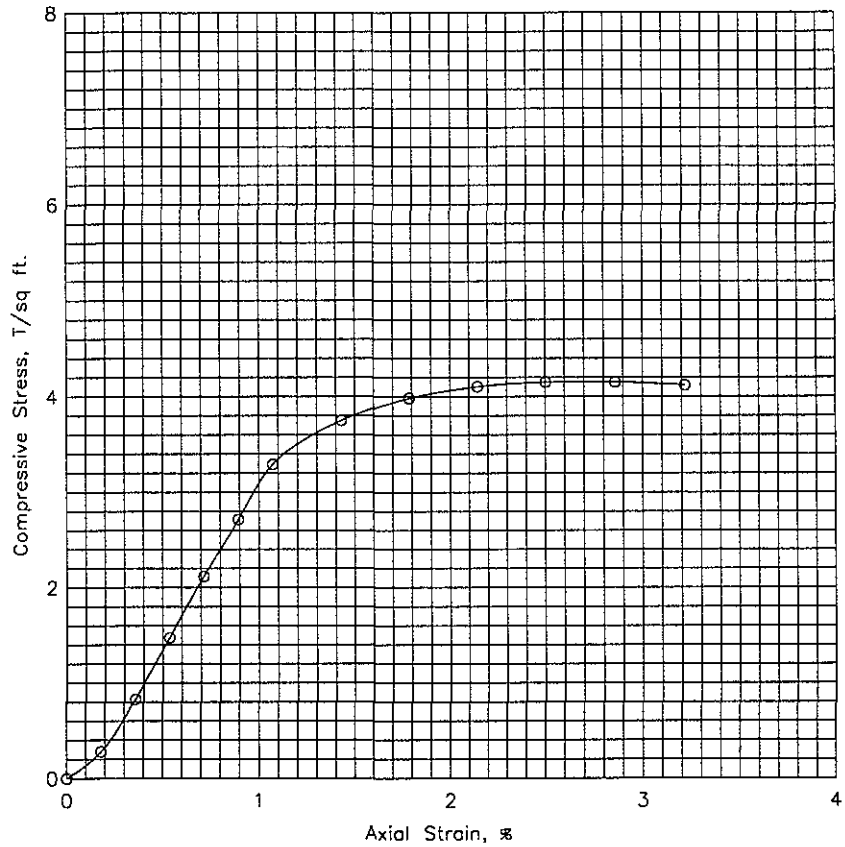
Specific Gravity of Solids
LL = 74 PL = 30 PI = 44

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	32.0	24.2	.002	6.30	.277
.3	20.	.020	96.0	72.7	.004	6.31	.829
.5	30.	.030	171.0	129.4	.005	6.32	1.474
.7	40.	.040	246.0	186.2	.007	6.34	2.116
.9	50.	.050	316.0	239.2	.009	6.35	2.714
1.0	60.	.060	384.0	290.7	.011	6.36	3.292
1.4	80.	.080	439.0	332.3	.014	6.38	3.750
1.7	100.	.100	468.0	354.3	.018	6.40	3.983
2.0	120.	.120	484.0	366.4	.021	6.43	4.104
2.3	140.	.140	491.0	371.7	.025	6.45	4.148
2.6	160.	.160	493.0	373.2	.029	6.48	4.150
3.0	180.	.180	491.0	371.7	.032	6.50	4.118

Job No. 11400614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	29.5 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	92.5			
Time to failure, min		t_f	2.63			
Unconfined compressive strength, T/sq ft		q_u	4.15			
Undrained shear strength, T/sq ft		S_u	2.07			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,w/fer stains,slks,Hard,Red

LL	74	PL	30	PI	44	G_s

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-88 | Sample No. 12

Depth El 22-24 ft | Date 2/28/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 2/28/98

OJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-88 SAMPLE NO. 21 DEPTH 40-42 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,Stiff,Yellowish gray

Tare No.	PZ16	Height	5.595 in.
Tare plus Wet Specimen	489.36 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	422.14 gm	Initial Area	6.290 sq in.
Water Weight	67.22 gm	Volume	35.194 cu in.
Tare Weight	42.73 gm	Volume of Solids	cu in.
Wet Specimen	1210.45 gm	Void Ratio	
Dry Specimen	1028.27 gm	Saturation	%
Water Content	17.72 %	Dry Density	111.3 lb/cu ft

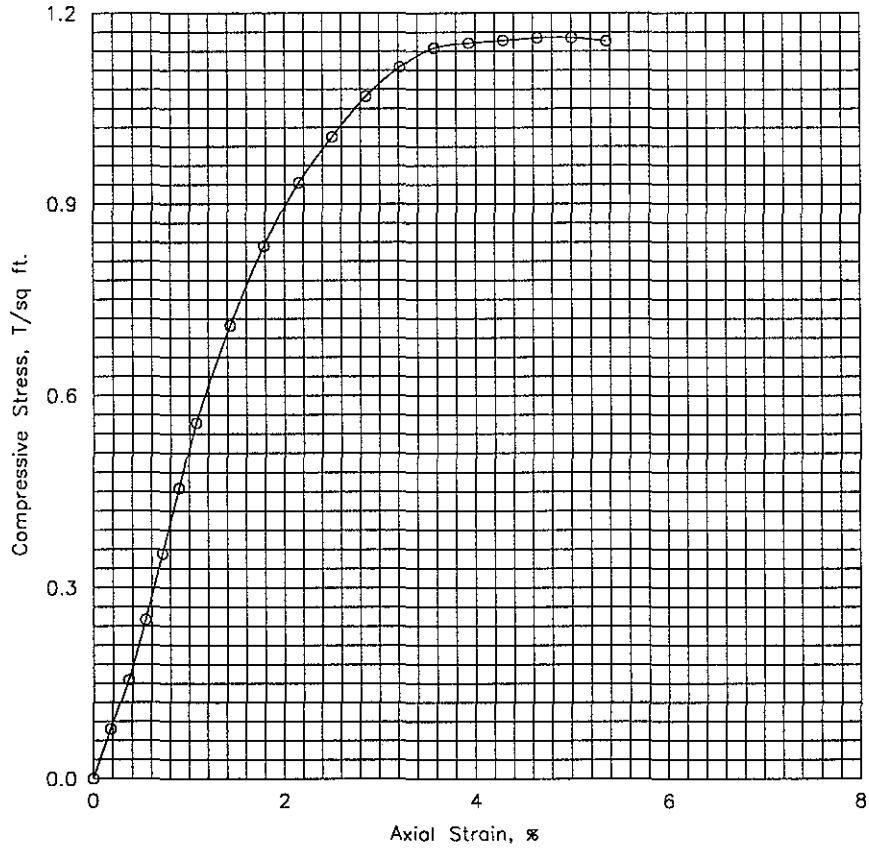
Specific Gravity of Solids
LL = 27 PL = 16 PI = 11

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	9.0	6.8	.002	6.30	.078
.4	20.	.020	18.0	13.6	.004	6.31	.155
.5	30.	.030	29.0	22.0	.005	6.32	.250
.7	40.	.040	41.0	31.0	.007	6.34	.353
.9	50.	.050	53.0	40.1	.009	6.35	.455
1.0	60.	.060	65.0	49.2	.011	6.36	.557
1.4	80.	.080	83.0	62.8	.014	6.38	.709
1.7	100.	.100	98.0	74.2	.018	6.40	.834
2.0	120.	.120	110.0	83.3	.021	6.43	.933
2.3	140.	.140	119.0	90.1	.025	6.45	1.005
2.6	160.	.160	127.0	96.1	.029	6.48	1.069
3.0	180.	.180	133.0	100.7	.032	6.50	1.115
3.3	200.	.200	137.0	103.7	.036	6.52	1.145
3.6	220.	.220	138.5	104.8	.039	6.55	1.153
4.0	240.	.240	139.5	105.6	.043	6.57	1.157
4.3	260.	.260	140.5	106.4	.046	6.60	1.161
4.6	280.	.280	141.0	106.7	.050	6.62	1.161
4.9	300.	.300	141.0	106.7	.054	6.65	1.156

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	17.7 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	111.3			
Time to failure, min		t_f	4.27			
Unconfined compressive strength, T/sq ft		q_u	1.16			
Undrained shear strength, T/sq ft		S_u	.58			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,Stiff,Yellowish gray

LL	27	PL	16	PI	11	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-88 | Sample No. 21

Depth El 40-42 ft | Date 2/28/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

JOB NO. 114008614 DATE 2/25/98

OJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-89 SAMPLE NO. 3 DEPTH 4-6 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/fer stains & sand seams,Stiff,Yellowish gray

Tare No.	SK12	Height	5.595 in.
Tare plus Wet Specimen	332.16 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	292.09 gm	Initial Area	6.290 sq in.
Water Weight	40.07 gm	Volume	35.194 cu in.
Tare Weight	43.83 gm	Volume of Solids	cu in.
Wet Specimen	1115.51 gm	Void Ratio	
Dry Specimen	960.48 gm	Saturation	%
Water Content	16.14 %	Dry Density	104.0 lb/cu ft

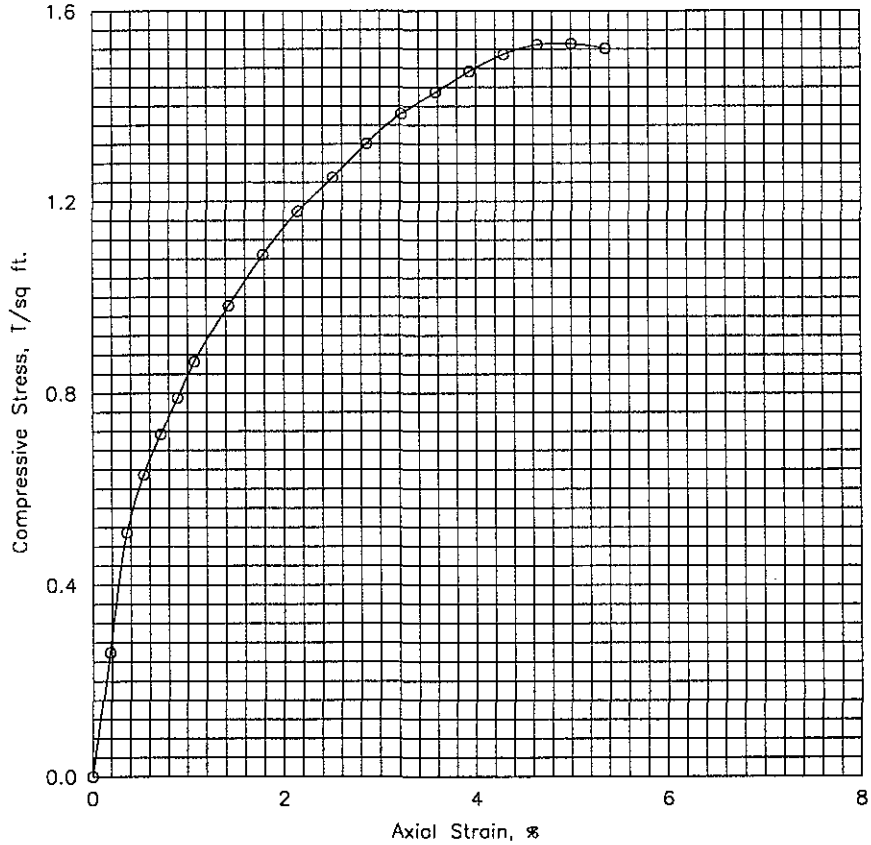
Specific Gravity of Solids
LL = 40 PL = 18 PI = 22

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	30.0	22.7	.002	6.30	.259
.3	20.	.020	59.0	44.7	.004	6.31	.509
.5	30.	.030	73.0	55.3	.005	6.32	.629
.7	40.	.040	83.0	62.8	.007	6.34	.714
.9	50.	.050	92.0	69.6	.009	6.35	.790
1.0	60.	.060	101.0	76.5	.011	6.36	.866
1.4	80.	.080	115.0	87.1	.014	6.38	.982
1.7	100.	.100	128.0	96.9	.018	6.40	1.089
2.0	120.	.120	139.0	105.2	.021	6.43	1.179
2.3	140.	.140	148.0	112.0	.025	6.45	1.250
2.7	160.	.160	157.0	118.8	.029	6.48	1.321
3.0	180.	.180	165.0	124.9	.032	6.50	1.384
3.3	200.	.200	171.0	129.4	.036	6.52	1.429
3.6	220.	.220	177.0	134.0	.039	6.55	1.473
4.0	240.	.240	182.0	137.8	.043	6.57	1.509
4.3	260.	.260	185.0	140.0	.046	6.60	1.529
4.6	280.	.280	186.0	140.8	.050	6.62	1.531
4.9	300.	.300	185.5	140.4	.054	6.65	1.521

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	16.1 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	104.0			
Time to failure, min		t_f	4.62			
Unconfined compressive strength, T/sq ft		q_u	1.53			
Undrained shear strength, T/sq ft		S_u	.77			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,w/fer stains & sand seams,Stiff,Yellowish gray

LL	40	PL	18	PI	22	G_s

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-89 | Sample No. 3

Depth El 4-6 ft | Date 2/25/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

JOB NO. 114008614 DATE 2/25/98

OJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-89 SAMPLE NO. 7 DEPTH 12-14 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,w/fer stains & sand seams,Very stiff,Reddish brown & gray

Tare No.	HP34D	Height	5.595 in.
Tare plus Wet Specimen	463.61 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	390.64 gm	Initial Area	6.290 sq in.
Water Weight	72.97 gm	Volume	35.194 cu in.
Tare Weight	43.22 gm	Volume of Solids	cu in.
Wet Specimen	1148.01 gm	Void Ratio	
Dry Specimen	948.74 gm	Saturation	%
Water Content	21.00 %	Dry Density	102.7 lb/cu ft

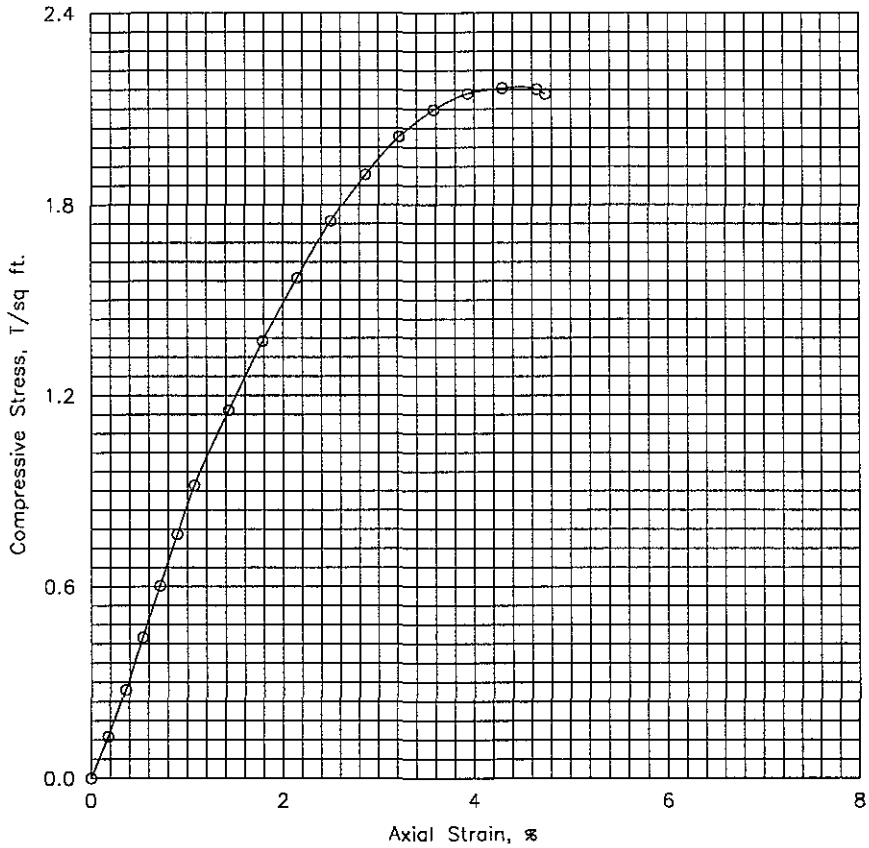
Specific Gravity of Solids
LL = 55 PL = 21 PI = 34

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	15.0	11.4	.002	6.30	.130
.3	20.	.020	32.0	24.2	.004	6.31	.276
.5	30.	.030	51.0	38.6	.005	6.32	.440
.7	40.	.040	70.0	53.0	.007	6.34	.602
.9	50.	.050	89.0	67.4	.009	6.35	.764
1.0	60.	.060	107.0	81.0	.011	6.36	.917
1.3	80.	.080	135.0	102.2	.014	6.38	1.153
1.6	100.	.100	161.0	121.9	.018	6.40	1.370
2.0	120.	.120	185.0	140.0	.021	6.43	1.569
2.3	140.	.140	207.0	156.7	.025	6.45	1.749
2.6	160.	.160	225.0	170.3	.029	6.48	1.894
3.0	180.	.180	240.0	181.7	.032	6.50	2.013
3.3	200.	.200	251.0	190.0	.036	6.52	2.097
3.7	220.	.220	258.0	195.3	.039	6.55	2.148
4.0	240.	.240	261.0	197.6	.043	6.57	2.165
4.3	260.	.260	261.5	198.0	.046	6.60	2.161
4.4	265.	.265	260.0	196.8	.047	6.60	2.146

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	21.0 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	102.7			
Time to failure, min		t_f	3.97			
Unconfined compressive strength, T/sq ft		q_u	2.16			
Undrained shear strength, T/sq ft		S_u	1.08			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,w/fer stains & sand seams,Very stiff,Reddish brown & gray

LL	55	PL	21	PI	34	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-89 | Sample No. 7

Depth El 12-14 ft | Date 2/25/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 2/26/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-90 SAMPLE NO. 2 DEPTH 2-4 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,Stiff,Dark Gray

Tare No.	WB4	Height	5.595 in.
Tare plus Wet Specimen	442.88 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	384.54 gm	Initial Area	6.290 sq in.
Water Weight	58.34 gm	Volume	35.194 cu in.
Tare Weight	43.09 gm	Volume of Solids	cu in.
Wet Specimen	1154.63 gm	Void Ratio	
Dry Specimen	986.14 gm	Saturation	%
Water Content	17.09 %	Dry Density	106.7 lb/cu ft
Specific Gravity of Solids			

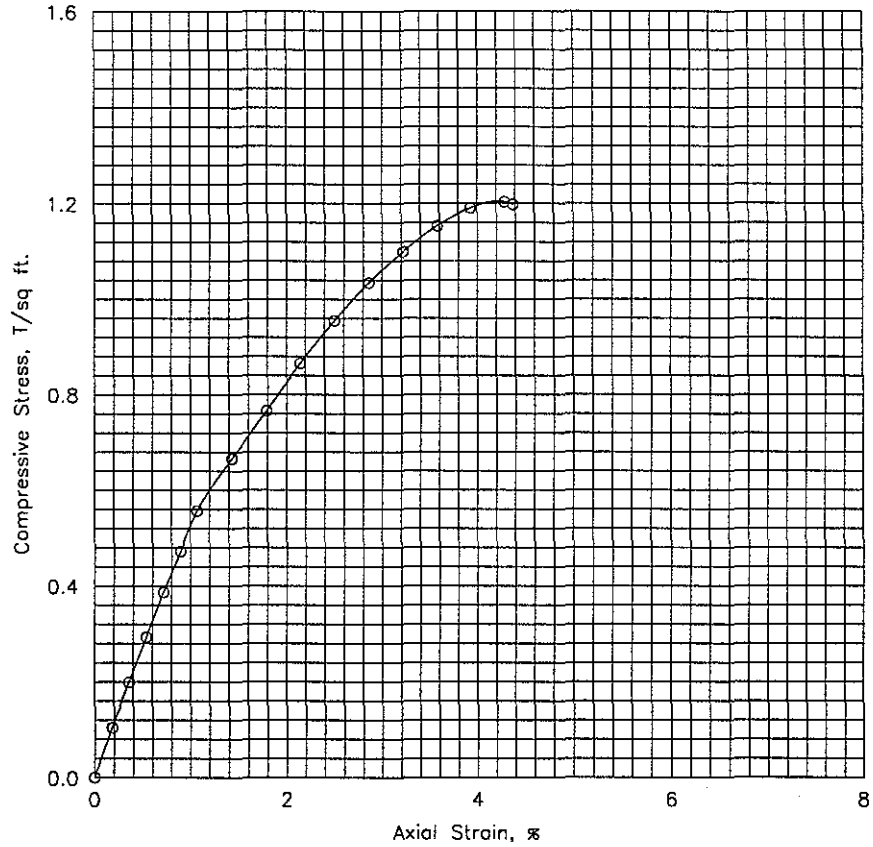
LL = 26 PL = 18 PI = 8

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	12.0	9.1	.002	6.30	.104
.3	20.	.020	23.0	17.4	.004	6.31	.199
.5	30.	.030	34.0	25.7	.005	6.32	.293
.7	40.	.040	45.0	34.1	.007	6.34	.387
.8	50.	.050	55.0	41.6	.009	6.35	.472
1.0	60.	.060	65.0	49.2	.011	6.36	.557
1.3	80.	.080	78.0	59.0	.014	6.38	.666
1.6	100.	.100	90.0	68.1	.018	6.40	.766
2.0	120.	.120	102.0	77.2	.021	6.43	.865
2.3	140.	.140	113.0	85.5	.025	6.45	.955
2.7	160.	.160	123.0	93.1	.029	6.48	1.035
3.0	180.	.180	131.0	99.2	.032	6.50	1.099
3.3	200.	.200	138.0	104.5	.036	6.52	1.153
3.6	220.	.220	143.0	108.3	.039	6.55	1.190
4.0	240.	.240	145.0	109.8	.043	6.57	1.203
4.1	245.	.245	144.5	109.4	.044	6.58	1.197

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	17.1 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	106.7			
Time to failure, min		t_f	3.97			
Unconfined compressive strength, T/sq ft		q_u	1.20			
Undrained shear strength, T/sq ft		S_u	.60			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,Stiff,Dark Gray

LL	26	PL	18	PI	8	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-90 | Sample No. 2

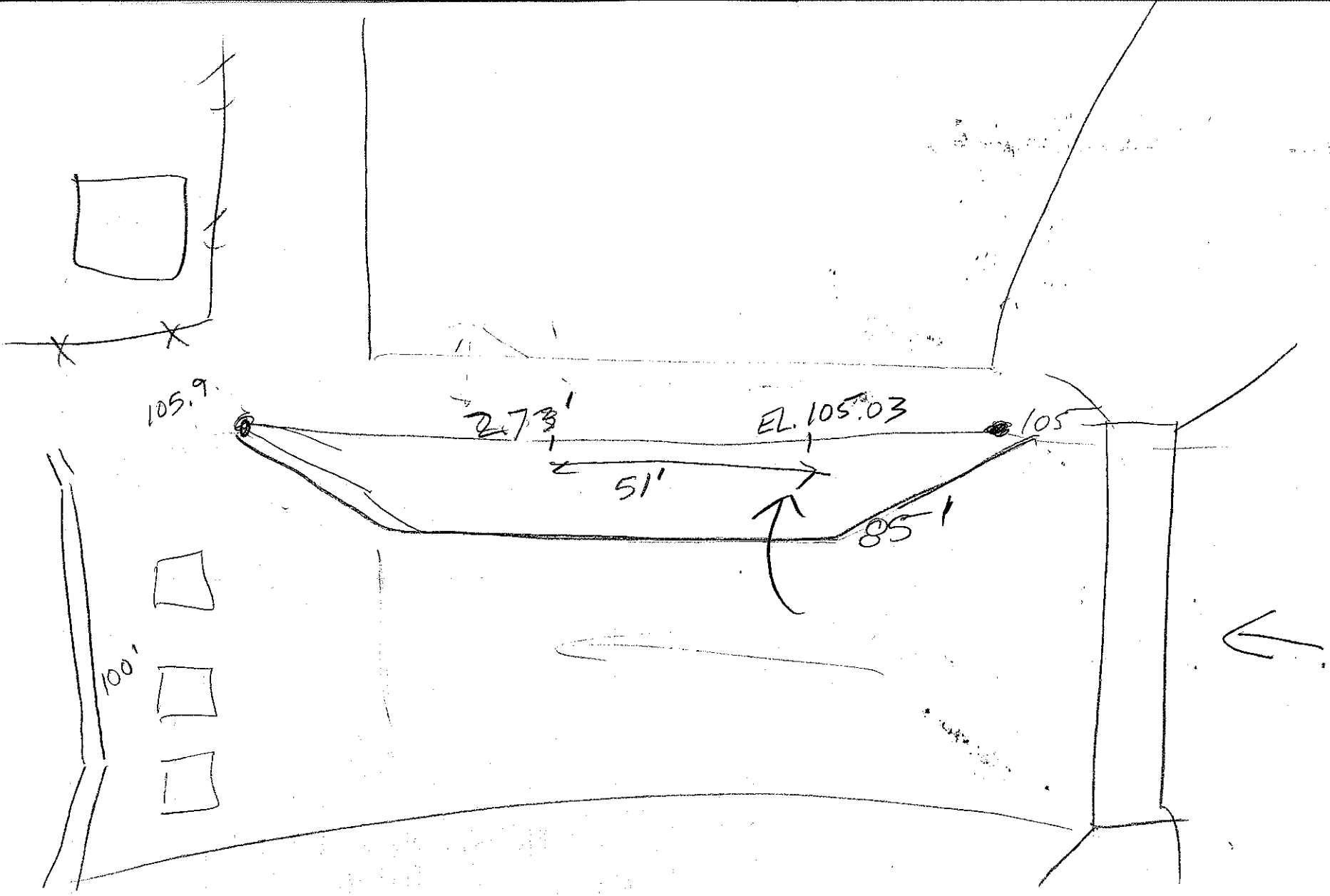
Depth El 2-4 ft | Date 2/26/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.


105.9
273'
EL. 105.03
105
51'
85'
100'

JOB NO. 114008614 DATE 3/2/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-74 SAMPLE NO. 4 DEPTH 6-8 ft

SPECIMEN NO. 1

CLASSIFICATION
Sandy Clay,w/fer nod,Very stiff,Yellowish gray

Tare No.	HP44	Height	5.595 in.
Tare plus Wet Specimen	400.01 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	359.17 gm	Initial Area	6.290 sq in.
Water Weight	40.84 gm	Volume	35.194 cu in.
Tare Weight	43.22 gm	Volume of Solids	cu in.
Wet Specimen	1153.11 gm	Void Ratio	
Dry Specimen	1021.12 gm	Saturation	%
Water Content	12.93 %	Dry Density	110.5 lb/cu ft
Specific Gravity of Solids			

LL = 41 PL = 18 PI = 23

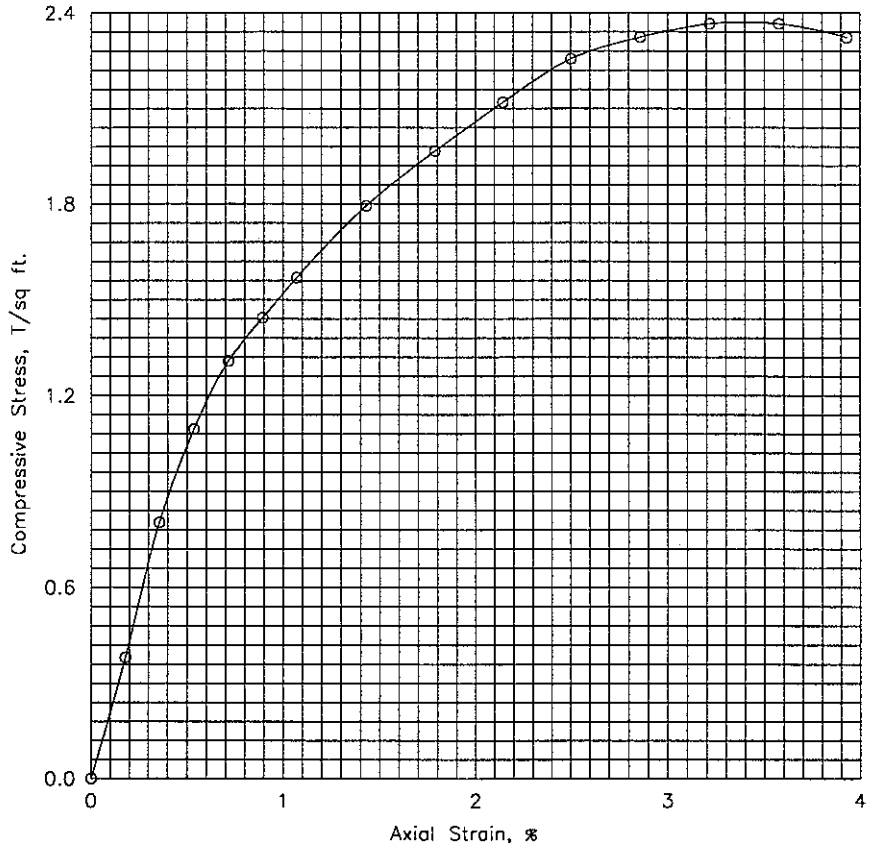
Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	44.0	33.3	.002	6.30	.381
.3	20.	.020	93.0	70.4	.004	6.31	.803
.5	30.	.030	127.0	96.1	.005	6.32	1.095
.7	40.	.040	152.0	115.1	.007	6.34	1.308
.9	50.	.050	168.0	127.2	.009	6.35	1.443
1.0	60.	.060	183.0	138.5	.011	6.36	1.569
1.4	80.	.080	210.0	159.0	.014	6.38	1.794
1.7	100.	.100	231.0	174.9	.018	6.40	1.966
2.0	120.	.120	250.0	189.3	.021	6.43	2.120
2.3	140.	.140	267.0	202.1	.025	6.45	2.256
2.6	160.	.160	276.0	208.9	.029	6.48	2.323
2.9	180.	.180	282.0	213.5	.032	6.50	2.365
3.2	200.	.200	283.0	214.2	.036	6.52	2.365
3.5	220.	.220	279.0	211.2	.039	6.55	2.322

Job No. 114008614

Failure Sketches

☐ Controlled stress
☒ Controlled strain



Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	12.9 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	110.5			
Time to failure, min		t_f	2.90			
Unconfined compressive strength, T/sq ft		q_u	2.36			
Undrained shear strength, T/sq ft		S_u	1.18			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Sandy Clay,w/fer nod,Very stiff,Yellowish gray

LL	41	PL	18	PI	23	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-74 | Sample No. 4

Depth El 6-8 ft | Date 3/2/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/2/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-74 SAMPLE NO. 10 DEPTH 18-20 ft

SPECIMEN NO. 1

CLASSIFICATION
Clay,w/sand seams,Hard,Gray & Red

Tare No.	IB21	Height	5.595 in.
Tare plus Wet Specimen	496.55 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	407.37 gm	Initial Area	6.290 sq in.
Water Weight	89.18 gm	Volume	35.194 cu in.
Tare Weight	42.89 gm	Volume of Solids	cu in.
Wet Specimen	1106.77 gm	Void Ratio	
Dry Specimen	889.20 gm	Saturation	%
Water Content	24.47 %	Dry Density	96.3 lb/cu ft

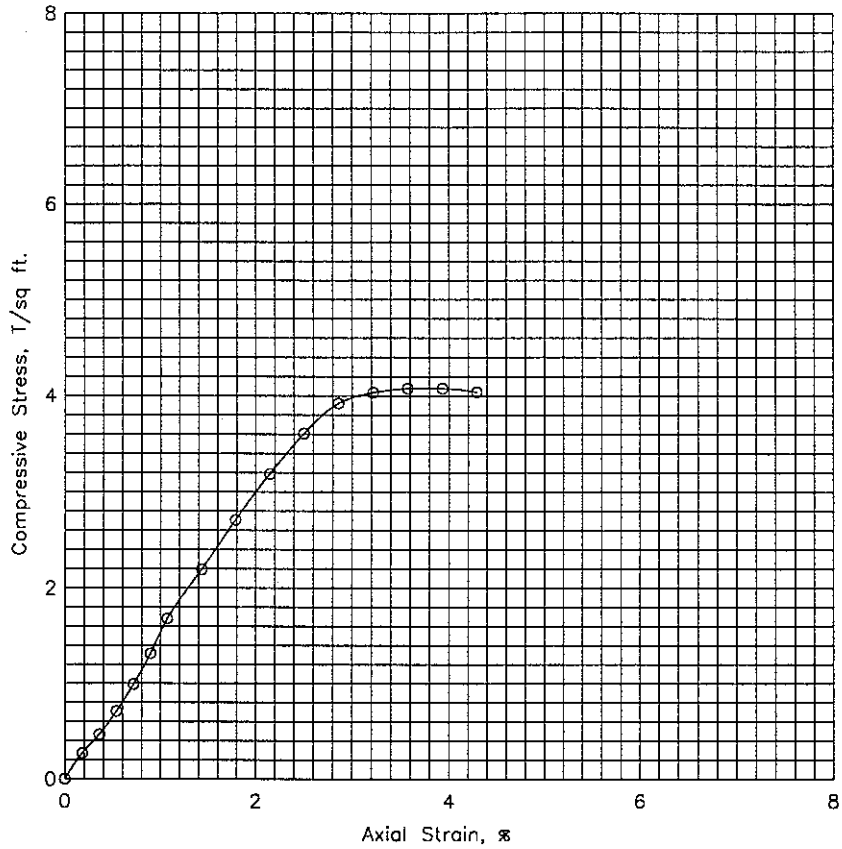
Specific Gravity of Solids
LL = 81 PL = 31 PI = 50

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	31.0	23.5	.002	6.30	.268
.3	20.	.020	54.0	40.9	.004	6.31	.466
.5	30.	.030	82.0	62.1	.005	6.32	.707
.7	40.	.040	115.0	87.1	.007	6.34	.989
.9	50.	.050	153.0	115.8	.009	6.35	1.314
1.1	60.	.060	196.0	148.4	.011	6.36	1.680
1.4	80.	.080	257.0	194.5	.014	6.38	2.195
1.7	100.	.100	318.0	240.7	.018	6.40	2.706
2.0	120.	.120	376.0	284.6	.021	6.43	3.188
2.3	140.	.140	427.0	323.2	.025	6.45	3.607
2.7	160.	.160	466.0	352.8	.029	6.48	3.922
3.0	180.	.180	481.0	364.1	.032	6.50	4.034
3.3	200.	.200	488.0	369.4	.036	6.52	4.077
3.6	220.	.220	490.0	370.9	.039	6.55	4.079
4.0	240.	.240	487.0	368.7	.043	6.57	4.039

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	24.5 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	96.3			
Time to failure, min		t_f	3.63			
Unconfined compressive strength, T/sq ft		q_u	4.08			
Undrained shear strength, T/sq ft		S_u	2.04			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Clay,w/sand seams,Hard,Gray & Red

LL	81	PL	31	PI	50	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-74 | Sample No. 10

Depth El 18-20 ft | Date 3/2/98

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE

JOB NO. 114008614 DATE 3/2/98

PROJECT Greens Bayou

AREA Houston, Texas

BORING NO. 97-74 SAMPLE NO. 12 DEPTH 22-24 ft

SPECIMEN NO. 1

CLASSIFICATION
Silty Clay,Stiff,Red & Gray

Tare No.	IB12	Height	5.595 in.
Tare plus Wet Specimen	386.56 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	312.31 gm	Initial Area	6.290 sq in.
Water Weight	74.25 gm	Volume	35.194 cu in.
Tare Weight	43.34 gm	Volume of Solids	cu in.
Wet Specimen	1111.04 gm	Void Ratio	
Dry Specimen	870.68 gm	Saturation	%
Water Content	27.61 %	Dry Density	94.2 lb/cu ft

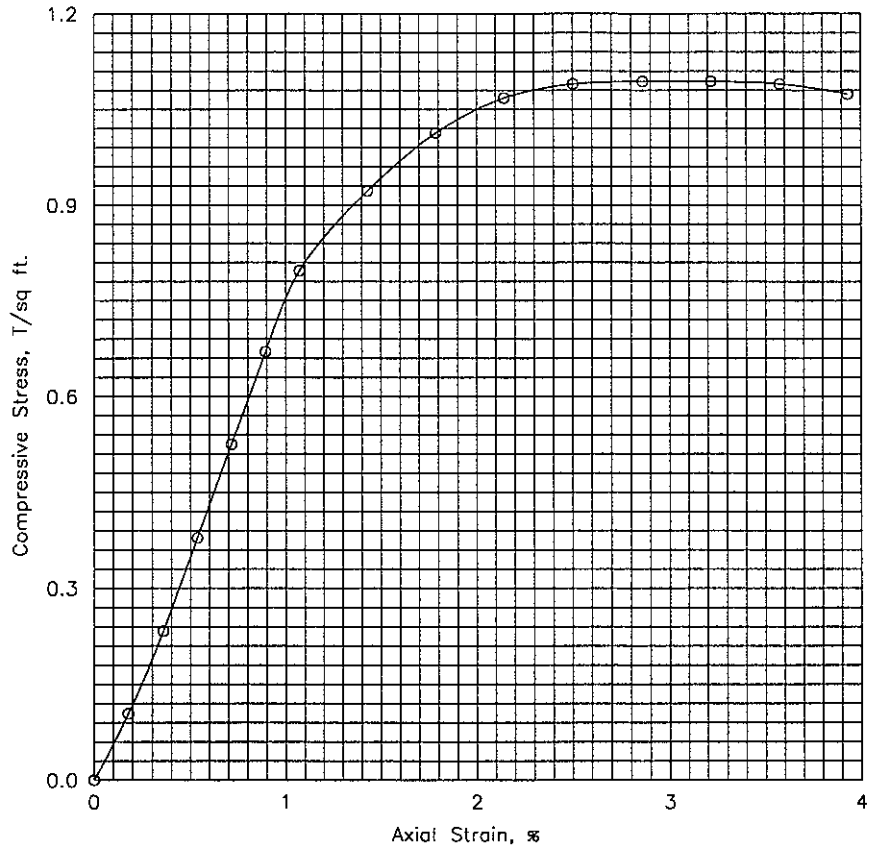
Specific Gravity of Solids
LL = 32 PL = 17 PI = 15

Proving Ring No. 10170
Proving Ring Constant, K = .757 lbs/div.

Lapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	12.0	9.1	.002	6.30	.104
.4	20.	.020	27.0	20.4	.004	6.31	.233
.5	30.	.030	44.0	33.3	.005	6.32	.379
.7	40.	.040	61.0	46.2	.007	6.34	.525
.9	50.	.050	78.0	59.0	.009	6.35	.670
1.0	60.	.060	93.0	70.4	.011	6.36	.797
1.4	80.	.080	108.0	81.8	.014	6.38	.922
1.7	100.	.100	119.0	90.1	.018	6.40	1.013
2.0	120.	.120	126.0	95.4	.021	6.43	1.068
2.3	140.	.140	129.0	97.7	.025	6.45	1.090
2.6	160.	.160	130.0	98.4	.029	6.48	1.094
3.0	180.	.180	130.5	98.8	.032	6.50	1.094
3.3	200.	.200	130.5	98.8	.036	6.52	1.090
3.6	220.	.220	129.0	97.7	.039	6.55	1.074

Job No. 114008614

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	27.6 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	94.2			
Time to failure, min		t_f	2.97			
Unconfined compressive strength, T/sq ft		q_u	1.09			
Undrained shear strength, T/sq ft		S_u	.55			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Silty Clay,Stiff,Red & Gray

LL	32	PL	17	PI	15	G_s	

Remarks

Project Greens Bayou

Area Houston, Texas

Boring No. 97-74 | Sample No. 12

Depth 22-24 ft | Date 3/2/98
El

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE