

U.S. ARMY CORPS OF ENGINEERS
GEOTECHNICAL BORING DATA

BEM

PROJECT NAME Victoria Ship Channel

LOG OF BORING NO. 90-52

LOCATION / STATION 490+00

DATE / TIME STARTED 06/19/90 @ 8:10 am

DATE / TIME COMPLETED 1 11 8:50 11

TIDE ELEVATION + 2.00 MLT DATUM

WATER DEPTH 10.5' - 8.5

DEPTH FROM WATER SURFACE
TO BOTTOM OF BORING 2.00

WEATHER Clear & Sunny

DRILL RIG MANUFACTURE
MODEL NO. CF-5

DRILLER Demetrius Brown
LOGGER Dr. C. Robinson

DRILLER'S / LOGGER'S COMMENTS

DEPTH, FEET	SAMPLE	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	BORING NO. <u>90-62</u> DATE: BEGIN <u>06/19/90</u> COMPLETE <u>06/19/90</u> JOB NO. <u>146404</u> LOGGER <u>Jay</u> PAGE <u>213</u> PROJECT <u>Victoria Ship Channel</u> LOCATION/STATION/ELEVATION: <u>Sta. 490+00 / E.C. + 2.00' MLT</u>			
				DEPTH: AUGERED _____ WASHED <u>16.5'</u> CORED _____			
				GROUNDWATER READINGS			
				TIME FIRST	DEPTH	TIME	DEPTH
CONSISTENCY		COLOR	MINOR	MAJOR	MODIFICATION		
0	1	0.75	Firm	Gray & Yellowish	Silt	CLAY	-w/sand stone: Disturbed sample
	2	0.75	"	"	"	"	"
5	3	0.50	Soft	"	"	"	-w/sand stone
	4	1.00	Slip	Gray & L/Tan	"	"	—
	5	3.00	V/Silt	Brown	"	"	—
10	6	3.00	"	"	"	"	—
	7	3.00	"	"	"	"	-8" sample
15	8	3.50	"	"	"	"	—
20	Bottom of Boring						

CONTINUED: ☐ YES ☒ NO

SUMMARY OF LABORATORY TEST RESULTS

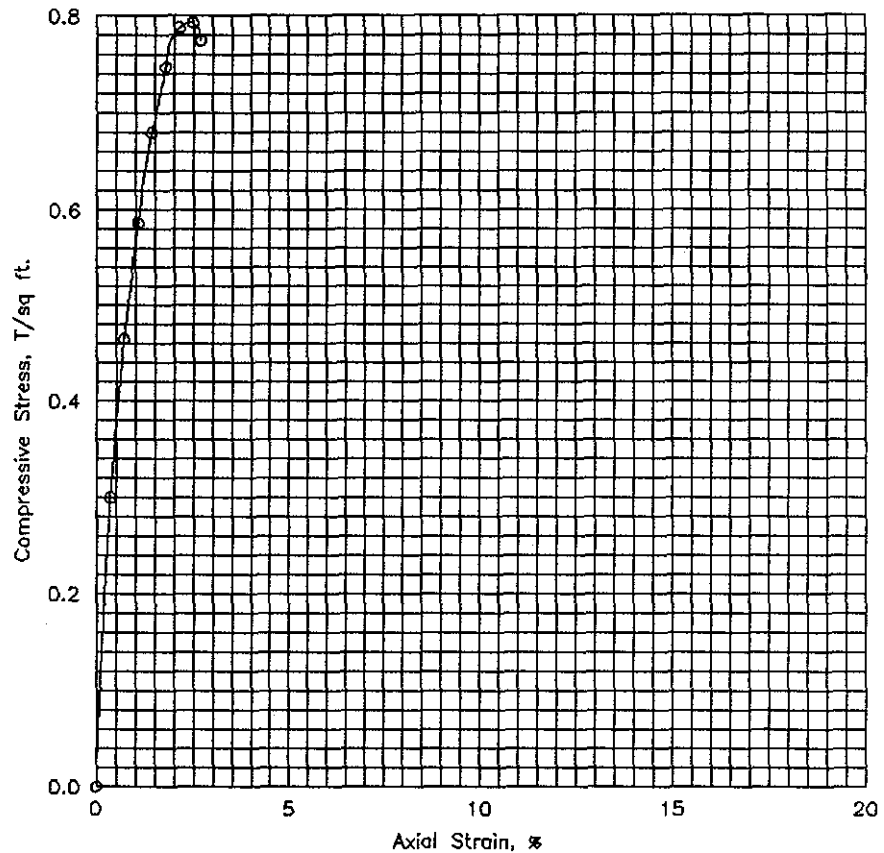
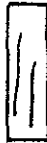
Boring No. 90-62

[illegible]

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

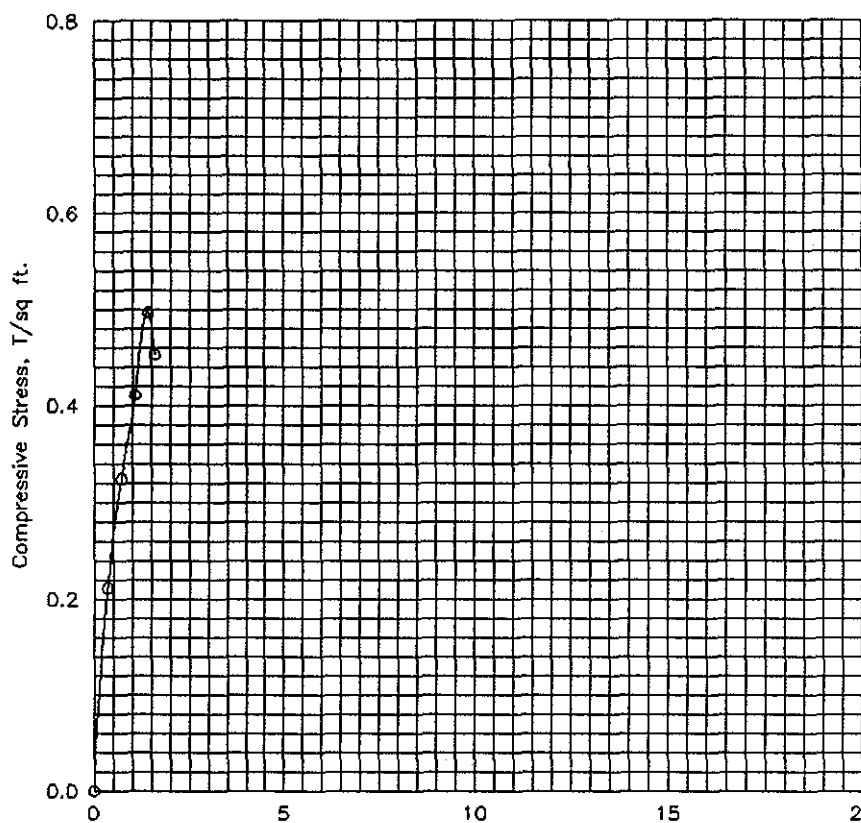
Job No. 14G404

Failure Sketches



- ☐ Controlled stress
☒ Controlled strain

Test No.		1			
Type of Specimen		Undisturbed			
Initial	Water content	w_0	24.0 %	%	%
	Void ratio	e_0			
	Saturation	S_0	%	%	%
	Dry density, lb/cu ft	γ_d	101.2		
Time to failure, min		t_f	2.42		
Unconfined compressive strength, T/sq ft		q_u	.79		
Undrained shear strength, T/sq ft		S_u	.40		
Sensitivity ratio		S_t			
Initial specimen diameter, in.		D_0	2.825		
Initial specimen height, in.		H_0	5.590		
Classification Gray and yellowish brown, CLAY, very stiff, with sand and calcareous nodules, s					
LL	48	PL	18	PI	30
				G_s	
Remarks		Project CHANNEL TO VICTORIA, TEXAS			
		Area Channel to Victoria in San Antonio Bay, Texas			
		Boring No. 90-62		Sample No. 3	
		Depth 4-6 ft		Date 8/1/90	
		UNCONFINED COMPRESSION TEST REPORT			

Failure Sketches		Compressive Stress, $T/sq\ ft.$			
					
☐ Controlled stress ☒ Controlled strain		Axial Strain, %			
Test No.		1			
Type of Specimen		Undisturbed			
Initial	Water content	w_0	25.6 %	%	%
	Void ratio	e_0			
	Saturation	S_0	%	%	%
	Dry density, lb/cu ft	γ_d	99.4		
Time to failure, min		t_f	1.35		
Unconfined compressive strength, $T/sq\ ft$		q_u	.50		
Undrained shear strength, $T/sq\ ft$		S_u	.25		
Sensitivity ratio		S_t			
Initial specimen diameter, in.		D_0	2.825		
Initial specimen height, in.		H_0	5.590		
Classification Brown, CLAY, very stiff, with silt partings, slickensided					
LL	52	PL	23	PI	29
Remarks		Project CHANNEL TO VICTORIA, TEXAS Area Channel to Victoria in San Antonio Bay, Texas Boring No. 90-62 Sample No. 5 Depth 8-10 ft Date 8/1/90 EI			
UNCONFINED COMPRESSION TEST REPORT					