

U.S. ARMY CORPS OF ENGINEERS
GEOTECHNICAL BORING DATA

BKM

PROJECT NAME Victoria Ship Channel

LOG OF BORING NO. 90-53

LOCATION / STATION 855 +00

DATE / TIME STARTED 05/19/90 2 9:30 am

DATE / TIME COMPLETED " " 10:15 "

TIDE ELEVATION + 2.50 MLT DATUM

WATER DEPTH 5.50' - 3

DEPTH FROM WATER SURFACE
TO BOTTOM OF BORING 27.50'

WEATHER Warm & Cloudy

DRILL RIG MANUFACTURE
MODEL NO. CF-5

DRILLER Dempsey Gower
LOGGER raig Mostamand

DRILLER'S / LOGGER'S COMMENTS —

DEPTH, FEET	SAMPLE	SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>90-53</u> DATE: BEGIN <u>06/18/90</u> COMPLETE <u>06/18/90</u>							
					JOB NO. <u>146404</u> LOGGER <u>Iraj</u> PAGE <u>2 / 3</u>							
					PROJECT <u>Victoria Ship Channel</u>							
					LOCATION/STATION/ELEVATION: <u>Sta. 355+00/EL. +2.50' MLT</u>							
					DEPTH: AUGERED _____ WASHED <u>22'</u> CORED _____							
GROUNDWATER READINGS												
TIME		DEPTH		TIME		DEPTH		TIME		DEPTH		
FIRST												
CONSIS- TENCY		COLOR		MINOR		MAJOR		MODIFICATION				
0		1	0.25	v/Soft	Grey	Silty	CLAY	—				
		2	0.25	"	"	"	"	—				
5		3	0.25	"	"	"	"	—				
		4	0.25	"	"	"	"	Disturbed sample				
		5	0.25	"	"	"	"	"				
10		6	0.25	"	"	"	"	- 7" sample				
		7	0.25	"	"	"	"	- Disturbed sample; jar				
15		8	0.25	"	"	"	"	- Disturbed sample; jar				
		9	0.25	"	"	"	"	—				
20		10	0.25	"	"	"	"	- w/shells				
		11	0.25	"	"	"	"	"				
		Bottom of Boring										
25												

CONTINUED: ☐ YES ☒ NO

Project : CHANNEL TO VICTORIA
VICTORIA, TEXAS

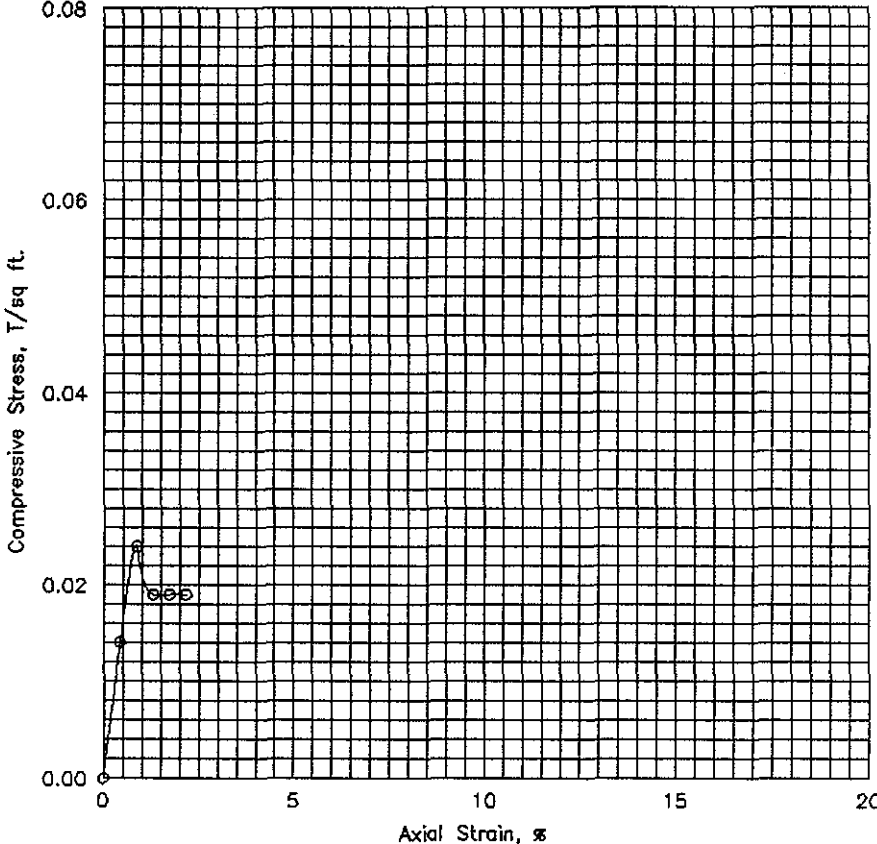
SUMMARY OF LABORATORY TEST RESULTS

Boring No. 90-53

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	M c (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	LL (%)	PL (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
1	0 - 2	0.00		Gray, CLAY, very soft, with silt and shell fragments	CH	63.4											
2	2 - 4	0.00		Gray, CLAY, very soft, with silt, trace of sand and shell fragments	CH	65.3	62.6	103.4	64		99.9	98.6	96.2	95.1	89.9	0.05	
3	4 - 6	0.00		Gray, CLAY, very soft, with silt	CH	65.8											
4	6 - 8	0.00		Gray, CLAY, very soft, with silt and shell fragments	CH	74.9											
5	8 - 10	0.00		Gray, CLAY, very soft, with silt	CH	64.4											
6	10 - 12	0.00		Gray, CLAY, very soft, with silt	CH	63.7	60.2	98.6	70	21	99.8	99.5	98.1	96.7	91.1	0.05	0.02
7	12 - 14	0.00		Gray, CLAY, very soft, with silt	CH	67.3											
8	14 - 16	0.00		Gray, CLAY, very soft, with silt	CH	64.6											
9	16 - 18	0.00		Gray, CLAY, very soft, with silt and shell fragments	CH	70.9											
10	18 - 20	0.00		Gray, CLAY, very soft, with silt and shell fragments	CH	64.1	60.7	99.6	73							0.00	
11	20 - 22	0.00		Gray, CLAY, very soft, with silt and shell fragments	CH	51.7											

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

Failure Sketches		Compressive Stress, $T/sq\ ft.$				Axial Strain, %			
									
		☐ Controlled stress ☒ Controlled strain							
Test No.		1							
Type of Specimen		Undisturbed							
Initial	Water content	w_0	63.7 %	%	%	%	%	%	%
	Void ratio	e_0							
	Saturation	S_0	%	%	%	%	%	%	%
	Dry density, lb/cu ft	γ_d	60.2						
Time to failure, min		t_f	.65						
Unconfined compressive strength, $T/sq\ ft$		q_u	.02						
Undrained shear strength, $T/sq\ ft$		S_u	.01						
Sensitivity ratio		S_t							
Initial specimen diameter, in.		D_0	2.720						
Initial specimen height, in.		H_0	4.610						
Classification Gray, Silty CLAY, very soft									
LL 70		PL 21		PI 49		G_s			
Remarks				Project CHANNEL TO VICTORIA, TEXAS					
				Area Channel to Victoria in San Antonio Bay, Texas					
				Boring No. 90-53			Sample No. 6		
				Depth 10-12 ft			Date 7/31/90		
				UNCONFINED COMPRESSION TEST REPORT					