BKM

U.S. ARMY CORPS OF ENGINEERS
GEOTECHNICAL BORING DATA

PROJECT NAME Victoria Ship Channel

LOG OF BORING NO. 90-49

LOCATION / STATION 295 +00

DATE / TIME STARTED 05/17/90 @ 1:00 pm
DATE / TIME COMPLETED " " 1:45 "

TIDE ELEVATION + 2.00' MLT DATUM

WATER DEPTH 7.00' - 5

DEPTH FROM WATER SURFACE
TO BOTTOM OF BORING 27.00'

WEATHER Cloudy @ Sunny

DRILL RIG MANUFACTURE
MODEL NO. CF-5

DRILLER Dempsey Green
LOGGER Aris Lazanidis

DRILLER'S / LOGGER'S COMMENTS —

BORING NO. 90-49 DATE: BEGIN 06/17/90 COMPLETE 06/17/90
JOB NO. 14G404 LOGGER Aris PAGE 2 / 3
PROJECT Victoria Ship Channel
LOCATION/STATION/ELEVATION: Sta. 295+00 / El. +2.00' MLT

DEPTH: AUGERED _____ WASHED 20' CORED _____

GROUNDWATER READINGS

TIME	DEPTH	TIME	DEPTH	TIME	DEPTH
FIRST					

DEPTH, FEET	SAMPLE	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	CONSISTENCY	COLOR	MINOR	MAJOR	MODIFICATION
0		1	0.25	V/Soft	Gray	Silty	CLAY	—
		2	0.25	"	"	"	"	—
5		3	0.25	"	"	"	"	—
		4	0.25	"	"	"	"	—
		5	0.25	"	"	"	"	- w/shells
10		6	WOP	"	"	"	"	- w/shells, disturbed sample
		7	0.25	V/Soft	"	"	"	- w/shells
15		8	0.25	"	"	"	"	- w/shells; disturbed sample; gas
		9	0.25	"	"	"	"	- w/shells; 7" sample
		10	0.25	"	"	"	"	- w/shells; 8" sample
20								Bottom of Boring
25								

CONTNUED: ☐ YES ☒ NO

Project : CHANNEL TO VICTORIA
VICTORIA, TEXAS

SUMMARY OF LABORATORY TEST RESULTS

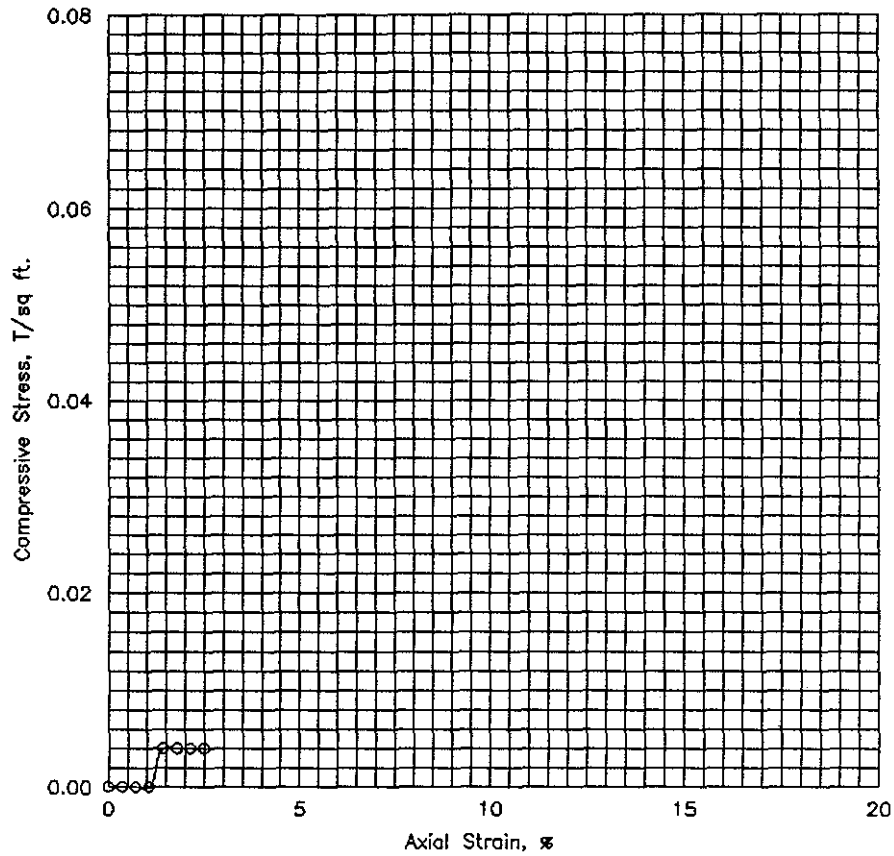
Boring No. 90-49

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 shell fragments	CH	54.3											
2	2 - 4	0.00		Gray, CLAY, very soft, with shell fragments	CH	46.3	73.8	108.0	53	20	100.0	100.0	99.9	99.7	99.4		
3	4 - 6	0.00		Gray, CLAY, very soft, with shell fragments	CH	42.6											
4	6 - 8	0.00		Gray, CLAY, very soft, with sand and shell fragments	CH	41.6	77.4	109.6	64	21	100.0	99.5	98.7	96.7	87.7	0.04	0.00
5	8 - 10	0.00		Gray, CLAY, very soft, with shell fragments	CH	52.6											
6	10 - 11.5		WOP	Gray, CLAY, very soft, with shell fragments	CH	51.1											
7	12 - 14	0.00		Gray, CLAY, very soft, with sand and shell fragments	CH	59.9	68.8	110.0	63	30	96.1	94.8	93.6	89.7	72.5		
8	14 - 16	0.00		Gray, CLAY, very soft, with sand and shell fragments	CH	67.0											
9	16 - 18	0.00		Gray, CLAY, very soft, with shell fragments	CH	69.3											
10	18 - 20	0.00		Gray, CLAY, very soft, with shell fragments	CH	65.8											

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	41.6 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	77.4			
Time to failure, min		t_f	1.30			
Unconfined compressive strength, T/sq ft		q_u	.00			
Undrained shear strength, T/sq ft		S_u	.00			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.810			
Initial specimen height, in.		H_0	5.590			

Classification Gray, CLAY, very soft, with shell fragments

LL	64	PL	21	PI	43	G_s

Remarks

Project CHANNEL TO VICTORIA, TEXAS

Area Channel to Victoria in San Antonio Bay, Texas

Boring No. 90-49 | Sample No. 4

Depth El 6-8 ft | Date 7/30/90

UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

Geotest Engineering, Inc.

PLATE