

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE		PEN./TORVANE		SPT.-BLOW COUNT		BORING NO. <u>91264</u> DATE: BEGIN <u>7-27-91</u> PAGE: <u>111</u>		JOB NO. <u>146494</u> COMPLETE <u>7-27-91</u> Thin Walled Tube		PROJECT <u>GTWW</u> ☒ 3" ☐ 6"		LOCATION <u>SARGENT BEACH</u>		ELEVATION OF HOLE		MANUFACTURER'S DESIGNATION OF DRILL RIG <u>ARDCO BUGGY</u>		GROUNDWATER: DEPTH <u>1</u> ft., ELEV. <u>SANDING</u> ft., at end of Drilling		WEATHER <u>PARTLY CLOUDY</u>		DRILLER <u>Robert Tankersley</u> LOGGER <u>John A. Hendry</u>	
								COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS													
0		1	0.75	BROWN	CLAY	MEDIUM STIFF		* GRAY - w/ SAND LAYER, RAIS & ROOTS 0-4																	
		2	1.0	GRAY	CLAY	STIFF																			
5		3	0.5	GRAY	CLAY	MEDIUM STIFF		* TAN 4-8'																	
		4	0.5	GRAY	CLAY	MEDIUM STIFF																			
		5	0.5	GRAY	CLAY	SOFT		* BROWN - w/ SOFT CLAY 8-10																	
10		6	0.5	GRAY	CLAY	SOFT																			
		7	0.75	GRAY	CLAY	MEDIUM STIFF		- w/ SHELL FRAGMENTS 12'-15'																	
15		8	0.25	GRAY	CLAY	SOFT		* BROWN 15'-18'																	
		9	0.25	GRAY	CLAY	SOFT																			
		10	1.25	GRAY	CLAY	STIFF		NOD - w/ FERROUS 20'-24'																	
20		11	1.5	GRAY	CLAY	STIFF																			
		12	2.0	GRAY	CLAY	VERY STIFF		NOD - w/ CALCAREOUS & SAND PARTIALS																	
25		13	4.5	REDISH BROWN	CLAY	HARD		BOTTOM OF 91264																	

Project: Gulf Intracoastal Waterway near Sargeant Beach, Texas
Contract No. DACW64-91-D-001, Delivery Order No. 0022

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-264

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 (%)	P L (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
1	0-2	0.50		Brown, Clay, Medium stiff, Sandy <i>Soft</i>	CL	34.6											
2	2-4	0.50		Brown & gray, Clay, Medium stiff, Sandy <i>Soft</i>	CL	31.3										0.20	
3	4-6	0.50		Gray, Clay, Medium stiff, Sandy, w/Shell fragments <i>Soft</i>	CL	38.7	78.0	108.1	47	19	100.0	100.0	99.8		77.3	0.20	0.15
4	6-8	0.75		Gray, Clay, Medium stiff	CL	31.8										0.30	
5	8-10	0.25		Gray, Clay, Soft	CH	40.0										0.10	
6	10-12	0.25		Brown, Clay, Soft	CH	40.1	81.0	113.6	56	23	100.0	100.0	99.8		97.6	0.10	0.14
7	12-14	0.25		Gray, Clay, Soft, w/Shell & shell fragments	CH	54.1										0.10	
8	14-16	0.25		Gray, Clay, Soft, w/Shell & shell fragments	CH	41.0										0.10	
9	16-18	0.25		Gray, Clay, Soft, w/Shell & shell fragments	CH	40.9	78.6	110.8	50	20	98.5*	97.7*	96.6*		87.7	0.10	0.11
10	18-20	0.25		Gray & brown, Clay, Soft	CH	39.0											
11	20-22	0.25		Gray & brown, Clay, Soft	CH	39.5											
12	22-24	1.50		Olive gray, Clay, Stiff, w/Calcareous nodules	CH	22.2	102.3	125.0	56	23	99.2#	96.7#	94.1#		84.9		1.30
13	24-26	3.00		Red & gray, Clay, Very stiff, w/Blocky structure	CH	25.4											

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

* : Material retained are shell fragments, # Material retained are calcareous nodules