

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE NO.	SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>91-294</u> DATE: BEGIN <u>12/29/91</u> PAGE <u>1/1</u> JOB NO. <u>146-531</u> COMPLETE <u>12/29/91</u> Thin Walled Tube PROJECT <u>CJWW</u> ☒ 3" ☐ 6" LOCATION <u>Sargent branch Sta 254+00</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>Failing CFP2</u> GROUNDWATER: DEPTH <u>0</u> ft., ELEV. _____ ft., at end of Drilling WEATHER <u>cool clear</u> DRILLER <u>D. G. Carson</u> LOGGER <u>D. Crowell</u>				
		COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS				
0										
1	0.75	Tan	Clay	Medium dense	silt	Roots				
2	0.75	Gray	Clay	"	silt	Tan				
3	0.25	Gray	Clay	soft	silt	Tan				
4	0.50	Tan	Clay	Medium stiff	silt	Gray				
5	0.25	Tan	silt	loose	clay					
6	0.25	Tan	silt	loose	clay					
7	0.75	Tan	Clay		silt	Gray				
8	1.0	Tan	clay	stiff	silt	Gray				
9	0.75	Gray	Clay		silt	tan				
10	1.5	Gray	Clay	stiff	silt					
11	1.0	Gray	Clay	stiff	silt					
12	2.0	Gray	Clay	stiff	silt	Tan w/ silt seams				
13	2.5	Gray	Clay	stiff	silt	Tan w/ silt seams				
14						Bottom of 91-294 @ 26'				
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Project : Gulf Intracoastal Waterway, near Sargent Beach, Texas
Contract No. DACW64-92-D-0001 Delivery No. 0005

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-294

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	1.50		Brown, Clay, Stiff, Silty	CL	23.4										0.50	
2	2-4	1.00		Gray, Clay, Stiff, Silty, w/sand pockets	CL	31.3	89.6	117.6	42							0.50	
3	4-6	0.25 -1.75		Gray & tan, Clay, Soft, Silty <i>SWD</i>	CL	32.4	88		48	17					93		<i>C = 330</i>
4	6-8	0.75		Brown & gray, Clay, Medium stiff, Silty, w/calcareous nodules and sand pockets	CL	32.6	88.4	117.2	44	21	100.0	99.4	98.4	97.8	96.6	0.35	
5	8-10	0.25		Brown, Silt, loose, clayey	ML	18.9			<i>Changed because of silt</i>								
6	10-12	0.25 1.5-1.75		Brown, Silt, loose, clayey <i>SWD</i>	ML CL	30.4	94		47	16					89		<i>C = 240</i>
7	12-14	1.75		Brown, Clay, Stiff	CH	29.9											
8	14-16	1.00		Brown & gray, Clay, Stiff	CH	39.9											
9	16-18	1.25		Dark gray, Clay, Stiff, w/calcareous nodules & sand pockets	CH	26.6	96.4	122.0	62		100.0	99.9	99.7	98.6	95.4		
10	18-20	1.50		Dark gray, Clay, Stiff	CH	25.0											
11	20-22	2.50		Dark gray, Clay, Very stiff, w/silt seams	CH	23.9											
12	22-24	3.00		Yellowish gray, Clay, Very stiff, Silty, w/mica	CL	24.8											
13	24-26	3.75		Yellowish gray, Clay, Very stiff, silty, w/calcareous nodules	CL	19.4			34								

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