

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>91-311</u> DATE: BEGIN <u>1/9/92</u> PAGE <u>1/2</u> JOB NO. <u>14G 531</u> COMPLETE <u>1/9/92</u> Thin Walled Tube PROJECT <u>C-IGW</u> ☒ 3" ☐ 6" LOCATION <u>Sargeant base G sta 374+50</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>Pauling CF02</u> GROUNDWATER: DEPTH <u>0</u> ft., ELEV. _____ ft., at end of Drift _____ WEATHER <u>cool cloudy</u> <u>Raining</u> DRILLER <u>A. Cannon</u> LOGGER <u>P. Crane</u>					
					COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS	
0										
1	0.50				Tan	clay	M/stiff	silt	w/roots into gray	
2	1.0				Gray	clay	stiff	silt	w/roots	
5	0.50				Gray	clay	M/stiff	silt	Tan Disturbed sample	
4	0.75				Tan	clay	M/stiff	silt	Gray	
5	0.75				Tan	clay	M/stiff	silt	Gray	
10	0.50				Tan	clay	M/stiff	silt	Gray	
6	0.25				Tan	clay	soft	silt	Gray	
15	0.00				Tan	clay	V soft	silt	Gray	
9	0.00				Tan	clay	V. soft	silt	Tan Sample (Fallout of tube)	
20	0.25				Gray	clay	soft	silt	w/organic layer	
11	0.25				Gray	clay	soft	silt		
12	0.25				Tan	clay	soft	silt		
25	0.50				Gray	clay	M/stiff	silt	shell calc	
14	2.5				Tan	clay	V. stiff	silt	calc.	
15	2.0				Tan	clay	V. stiff	silt	calc. + gray	
30	2.5				Tan	clay	V. stiff	silt		
17	2.5				Tan	clay	V. stiff	silt	w/calc nod	
18	2.5				Tan	clay	V. stiff	silt		

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						JOB NO. <u>14G-531</u> COMPLETE <u>1/9/92</u> Thin Walled Tube ☒ 3" ☐ 6"				
PROJECT <u>CIWW</u>						LOCATION <u>Sargent Branch Sta 374</u>				
ELEVATION OF HOLE _____						MANUFACTURER'S DESIGNATION OF DRILL RIG <u>Pauling CP2</u>				
GROUNDWATER: DEPTH <u>0</u> ft., ELEV. _____ ft., at end of Drilling						WEATHER <u>cool cloudy Rain</u>				
DRILLER <u>D. Cearan</u> LOGGER <u>P. Crowell</u>										
		COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS				
35										
	X 19	12/18/23	Tan Sand	dense	silt					
40										
	X 20	12/24/28	Tan Sand	dense	silt					
45										
	X 21	12/36/40	Tan Sand	V. Dense	silt					
	X 22	13/38/50	Tan Sand	V. Dense	silt					
50						Bottom of 91-311 @ 50'				
55										
60										
65										
70										

Project : Gulf Intracoastal Waterway, near Sargent Beach, Texas
Contract No. DACW64-92-D-0001 Delivery No. 0005

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-311

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	0.75		Gray & brown, Clay, Medium stiff	CH	34.2											
2	2-4	1.25		Gray & brown, Clay, Stiff, w/sand pockets	CH	31.7			58	22	100.0	100.0	99.7	98.0	93.0		
3	4-6	1.00		Gray & brown, Clay, Stiff	CH	38.7											
4	6-8	1.00		Brown, Clay, Stiff	CH	39.1											
5	8-10	0.75		Tan & gray, Clay, Medium stiff, Silty	CL CH	42	77		73	22							400
6	10-12	0.50		Brown, Clay, Medium stiff	CH	45.0											
7	12-14	0.50		Brown, Clay, Medium stiff, Silty	CL	34.2										0.25	
8	14-16	0.25		Brown, Clay, Soft, Silty	CL	37.8											
9	16-18	0.00		Tan, Clay, Very soft, Silty fell out of tube	CL CH	38	78		56	18							c = 260
10	18-20	0.25		Brown, Clay, Soft, Silty	CL	45.4										0.13	
11	20-22	0.25		Brown, Clay, Soft, Silty	CL	49.0										0.12	
12	22-24	0.25		Tan, Clay, Soft, Silty	CL CH	48	71		72	22							c = 620
13	24-26	0.50		Gray & brown, Clay, Medium stiff, w/calcareous nodules and shell fragments	CH	42.7											
14	26-28	3.00		Reddish brown, Clay, Very stiff, Silty, w/calcareous nodules	CL	17.9			31								
15	28-30	3.00		Brown, Clay, Very stiff, Silty, w/calcareous nodules	CL	20.6											
16	30-32	3.00		Yellowish brown, Clay, Very stiff, Silty, w/silty sand layer	CL	19.4											
17	32-34	3.25		Yellowish brown, Clay, Very stiff, Silty, w/silty sand layer	CL	18.6											

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

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											#4	#10	#40	#100	#200		
18	34-36	3.75		Yellowish brown, Clay, Very stiff, Silty, w/sand parting	C L	17.0											
19	36.5-38		41	Brown, Sand, Dense, Silty	S M	23.3 X					100.0	100.0	97.7	72.7	43.2		
20	41.5-43		48	Brown, Sand, Dense, Silty	S M	24.6 X											
21	46.5-48		76	Brown, Sand, Very dense, Silty	S M	19.5 X											
22	48.5-50		88	Brown, Sand, Very dense, Silty	S M	19.0 X					100.0	100.0	98.5	63.1	48.4		

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