

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>91-319</u> DATE: BEGIN <u>1/7/92</u> PAGE <u>1 12</u>			JOB NO. <u>14G-531</u> COMPLETE <u>1/7/92</u> Thin Walled Tube		PROJECT <u>G.I. WW</u> ☒ 3" ☐ 6"	
					LOCATION <u>Saugen t beach</u> Sta <u>417+00</u>			ELEVATION OF HOLE			
					MANUFACTURER'S DESIGNATION OF DRILL RIG <u>Fairlie CFD 2</u>			GROUNDWATER: DEPTH <u>0</u> ft., ELEV. _____ ft., at end of Drilling			
					WEATHER <u>warm cloudy raining</u>			DRILLER <u>D. Geeran</u> LOGGER <u>N. Evowell</u>			
					COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS		
0											
1		0.50	Gray	clay	M. stiff	silt		w/ Roots & shell			
2		1.0	Gray	clay	stiff	silt		w/ shell			
5		0.50	Tan	clay	M. stiff	silt		Gray			
4		0.50	Tan	clay	M. stiff	silt		Disturb Sample			
10		0.25	Tan	clay	soft	silt		w/ sand seam & shell			
6		0.25	Tan	clay	soft	silt		Gray			
7		0.25	Gray	clay	soft	silt		Tan			
15		0.00	Gray	clay	V. soft	silt		Tan, w/ shell			
9		0.00	Gray	clay	V. soft	silt		Tan, w/ shell			
20		0.00	Gray	clay	V. soft	silt					
11		1.5	Gray	clay	stiff	silt		Tan			
12		2.0	Gray	clay	V. stiff	silt		Gray			
25		2.5	Tan	clay	V. stiff	silt		Gray			
14		2.5	Tan	clay	V. stiff	silt		Gray			
30		2.5	Tan	clay	V. stiff	silt		Gray			
16		2.5	Gray	clay	V. stiff			Tan			
17		2.5	Gray	clay	V. stiff			Tan			
35		2.5	Gray	clay	V. stiff			Tan			

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						JOB NO. <u>14G531</u> COMPLETE <u>1/7/92</u> Thin Walled Tube				
		PROJECT <u>CIWW</u>				☒ 3" ☐ 6"				
		LOCATION <u>Sargent beach</u>				sta <u>417+00</u>				
		ELEVATION OF HOLE								
		MANUFACTURER'S DESIGNATION OF DRILL RIG <u>Fairing CFD2</u>								
		GROUNDWATER: DEPTH <u>0</u> ft., ELEV. <u> </u> ft., at end of Drilling								
		WEATHER <u>Warm cloudy</u>				<u>Rainy</u>				
		DRILLER <u>D. Egan</u>				LOGGER <u>D. Crowe</u>				
		COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS				
-35										
	19	3.0	Tan	clay v. stiff		w/calc nod				
-40	20	3.0	Tan	clay v. stiff		w/calc nods				
	21	3.0	Tan	clay v. stiff		gray w/calc nods				
	22	3.0	Tan	clay v. stiff		gray w/calc nods				
-45	23	3.5	Tan	clay v. stiff		gray w/calc nods				
	24	4.0	Tan	clay v. stiff		gray w/calc nods				
-50	25	4.0	Tan	clay v. stiff		gray w/calc nods				
						Bottom 91-319				
						250'				
-55										
-60										
-65										
-70										

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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-319

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	1.00		Light brown, Clay, Stiff, w/silt pockets	CH	31.5											
2	2-4	0.50		Brown, Clay, Medium stiff, Silty	CL	26.9			47								
3	4-6	1.00		Light brown, Clay, Stiff, w/silt pockets	CH	30.2											
4	6-8	0.50		Brown & gray, Clay, Medium stiff	CH	33.0			51								
5	8-10	0.25		Tan, Clay, Soft, Silty, w/sand seams & shell	CL	33	86		38	12						C = 350 #/s/c	
6	10-12	0.25		Brown, Clay, Soft, w/shell fragments	CH	48.6										0.12	
7	12-14	0.50		Gray, Clay, Medium stiff, w/organic material	CH	63.1										0.25	
8	14-16	0.25		Gray, Clay, Soft, w/shell & shell fragments	CH	42.8	77.5	110.6	67		96.4*	94.5*	93.8*	92.7	91.2	0.12	
9	16-18	0.25		Gray, Clay, Soft, w/shell fragments	CH	44.5										0.12	
10	18-20	0.00		Gray, Clay, Very soft, Silty	CL CH	35	82		65	19						C = 310 #/s/c	
11	20-22	1.50		Olive gray, Clay, Stiff	CH	41.6											
12	22-24	1.50		Brown & gray, Clay, Stiff, w/calcareous nodules, slickensided	CH	38.6											
13	24-26	2.25		Brown & gray, Clay, Very stiff, w/ferrous stains, slickensided	CH	34.6			81								
14	26-28	3.00		Brown & gray, Clay, Very stiff, w/ferrous stains, slickensided	CH	39.1											
15	28-30	3.25		Brown & gray, Clay, Very stiff, w/ferrous stains, slickensided	CH	43.9											
16	30-32	3.25		Gray & brown, Clay, Very stiff, w/calcareous nodules, slickensided	CH	33.8											
17	32-34	2.75		Yellowish gray, Clay, Very stiff, w/sand seams and sand pockets	CH	22.7											

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

* : Material Retained are Shell & Shell fragments

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Boring No. 91-319

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		
18	34-36	3.00		Brown,Clay,Very stiff,w/sand seams & calcareous nodules,Slickensided	CH	21.5											
19	36-38	2.75		Olive gray,Clay,Very stiff,w/calcareous nodules, Slickensided	CH	23.2			64								
20	38-40	3.50		Red & gray,Clay,Very stiff,w/Ferrous stains, slickensided	CH	25.4											
21	40-42	2.75		Brown,Clay,Very stiff,Silty,w/calcareous nodules and ferrous stains	CL	19.3											
22	42-44	3.00		Red & gray,Clay,Very stiff,w/Ferrous stains, slickensided	CH	31.5											
23	44-46	2.75		Brown & gray,Clay,Very stiff,w/calcareous nodules	CH	23.5											
24	46-48	3.75		Brown & gray,Clay,Very stiff,w/calcareous nodules	CH	22.7			62								
25	48-50	3.00		Brown & gray,Clay,Very stiff,w/calcareous nodules	CH	24.4											

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