

U.S. ARMY CORPS OF ENGINEERS

BORING NO. <u>91-277</u>		DATE: BEGIN <u>1/4/92</u>		PAGE <u>1 / 2</u>	
JOB NO. <u>14G-531</u>		COMPLETE <u>1/4/92</u>		Thin Walled Tube	
PROJECT <u>GZWW</u>				☒ 4" ☐ 6"	
LOCATION <u>Sargant Beach Sta 86+50</u>					
ELEVATION OF HOLE					
MANUFACTURER'S DESIGNATION OF DRILL RIG <u>CFD</u>					
GROUNDWATER: DEPTH <u>0</u> ft., ELEV. <u>50</u> ft., at end of Drilling					
WEATHER <u>cool cloudy</u>					
DRILLER <u>D. Coonan</u>		LOGGER <u>A. C. C. well</u>			

DEPTH, FEET	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	COLOR	MATERIAL TYPE	CONSIS- TENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0							
1	15		Gray	Clay	stiff	silt	w/roots
2	15		Gray	Clay	stiff	silt	w/roots
3	10		Gray	Clay	stiff	silt	Tan
4	0.50		Tan	Clay	M. stiff	silt	wood Drage material Dist sample
5	0.50		Tan	Clay	M. stiff	silt	Drage material Dist sample
6	W.O.P		Gray	Clay	v. soft	silt	w/sand Drage material
7	1 1/4		Gray	Sand	v. loose	silt	Clay
8	2 1/4		Gray	Sand	loose	silt	w/Clay seams Drage material
9	2 1/3		Gray	Sand	loose	silt	Clay seams
10	0.25		Gray	clay	soft	silt	w/sand seams
11	5 1/2		Gray	Sand	M. Dense	silt	
12	0.25		Tan	clay	soft	silt	Gray
13	0.25		Tan	clay	soft	silt	Gray
14	W.O.P		Tan	Clay	v. soft	silt	Gray

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DEPTH, FEET		SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>91-277</u> DATE: BEGIN <u>1/4/92</u> PAGE <u>2 1 2</u>			JOB NO. <u>14G-531</u> COMPLETE <u>1/4/92</u> Thin Walled Tube ☒ 3" ☐ 6"	
					PROJECT <u>C-IWW</u>				
					LOCATION <u>Sargeant beach sta 86+50</u>				
					ELEVATION OF HOLE _____				
					MANUFACTURER'S DESIGNATION OF DRILL RIG <u>CFD2</u>				
					GROUNDWATER: DEPTH <u>0</u> ft., ELEV. _____ ft., at end of Drilling				
					WEATHER <u>cool cloudy</u>				
					DRILLER <u>D. Gagan</u> LOGGER <u>D. Gagne II</u>				
		COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS			
35	15	0.50	Gray Clay	Medium stiff	silt	Tan			
40	16	0.75	Tan Clay	M. stiff	silt	Gray			
	17	0.50	Tan Clay	M. stiff	silt	w/sand seams			
	18	W.O.P	Tan Clay	Very soft	silt	w/sand seams			
45	19	0.25	Tan clay	soft	silt	w/sand seams			
	20	W.O.P	Tan clay	Very soft	silt	w/sand seams			
50	21	W.O.P	Tan Clay	Very soft	silt	w/sand seams			
						Bottom of 91-277 @ 50'			
						W.O.P: weight of Pipe			
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. 91-277

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	2.50		Dark gray, Clay, Very stiff, w/sand pockets and roots	CH	22.4											
2	2-4	2.50		Dark gray, Clay, Very stiff, w/sand pockets and roots	CH	23.6			58								
3	4-6	1.00		Brown & gray, Clay, Stiff, w/ferrous nodules	CH	34.1											
4	6-8	0.75		Brown & dark gray, Clay, Medium stiff, w/roots & wood and strong odor	CH	38.5											
5	8-10	0.75		Brown & dark gray, Clay, Medium stiff, w/silt pockets and strong odor	CH	35.6											
6	10.5-12	0.00	W.O.P	Gray, Clay, Very soft, Silty, w/sand	CL	33.5			29		100.0	100.0	100.0	99.8	93.5		
7	12.5-14		2	Gray, Sand, Very loose, Silty	SM												
8	17.5-19		6	Gray, Sand, Loose, Silty	SM						100.0	100.0	100.0	56.3	30.9		
9	22.5-24		5	Gray, Sand, Loose, Silty	SM												
10	26-28	0.50		Gray, Clay, Medium stiff	CH	65.9										0.25	
11	28.5-30		14	Gray, Sand, Medium dense, Silty	SP-SM						100.0	100.0	100.0	7.9	5.1		
12	30-32	0.25		Tan & gray, Clay, Soft, Silty	CH CH	42.6	79	113	50	20							
13	32-34	0.50		Brown, Clay, Medium stiff, w/shell fragments & silt and sand pockets	CH	35.4										0.25	
14	34.5-36	0.00	W.O.P	Brown, Clay, Very soft, Silty, w/sand & shell fragments	CL	43.3			46		99.8	98.7	97.9	96.7	95.7		
15	36-38	0.75		Brown, Clay, Medium stiff, w/organic material	CH	44.9											
16	38-40	1.00		Brown, Clay, Stiff, w/silt pockets	CH	34.1											
17	40-42	0.50		Brown, Clay, Medium stiff, w/silt pockets	CH	41.9											

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

$\phi = 24^\circ$

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[illegible]

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