

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET	SAMPLE NO.	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	BORING NO. <u>91-275</u> DATE: BEGIN <u>1/6/92</u> PAGE <u>1/2</u> JOB NO. <u>14G-531</u> COMPLETE <u>1/6/92</u> Thin Walled Tube PROJECT <u>GTGW</u> ☒ 3" ☐ 6" LOCATION <u>Sargent Beach Sta 76+00</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>CFD-2</u> GROUNDWATER: DEPTH <u>0</u> ft., ELEV. <u>9.8</u> ft., at end of Drilling WEATHER <u>cool cloudy</u> DRILLER <u>D. Cearan</u> LOGGER <u>D. Crowell</u>				
				COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0				Tan	Sand	stiff		w/ Roots
1				1.5 Gray	clay	stiff	silt	Roots
2				2.0 Gray	clay	stiff	silt	Tan
5				3 1.0 Tan	clay	stiff	silt	Gray
4				0.50 Tan	clay	m. stiff	silt	Gray
5				0.25 Gray	clay	soft	silt	Tan Dis. sample
10				6 0.25 Tan	Clay	soft	silt	Gray
7				0.25 Gray	Clay	soft	silt	Gray
15				8 0.00 Gray	Clay	v. soft	silt	w/sand layers
9				0.25 Gray	Clay	soft	silt	w/sand layers
10				0.25 Gray	Clay	soft	silt	w/sand layers
20				10 0.25 Gray	Clay	v. soft	silt	w/sand layers
11				11.00 Gray	Clay	soft	silt	w/sand seams
12				0.25 Gray	Clay	soft	silt	w/sand seams
25				13 0.25 Gray	Clay	soft	silt	w/sand seams
14				14 1/2 Gray	Sand	loose	silt	clay Ball
30				15 0.25	clay	soft	silt	Gray
35				16 0.25 Tan	clay	soft	silt	w/organic material

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DEPTH, FEET		SAMPLE NO.		PEN./TORVANE		SPT.-BLOW COUNT		BORING NO. <u>91-275</u> DATE: BEGIN <u>1/6/92</u> PAGE <u>2</u> / <u>2</u> JOB NO. <u>146-531</u> COMPLETE <u>1/6/92</u> Thin Walled Tube PROJECT <u>Sargent</u> <u>ESWU</u> <u>2nd</u> ☐ 6" LOCATION <u>Sargent</u> <u>branch sta 76+00</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>CFD-2</u> GROUNDWATER: DEPTH <u>0</u> ft., ELEV. _____ ft., at end of Drilling WEATHER <u>cool cloudy</u> DRILLER <u>P. Ccaran</u> LOGGER <u>D. Crowell</u>				
		COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS						
35												
	17	Gray	clay	M. Stiff	Silt	w/organic material						
40	18	Tan	clay	stiff	silt	w/organic seams						
	19	Tan	clay	stiff	silt	w/organic seams						
	20	Tan	clay	M. stiff	silt	Gray						
45	21	Tan	clay	M. Stiff	silt	w/shell Frag						
	22	Tan	Clay	M. Stiff	silt	Gray						
50	23	Tan	Clay	Stiff	silt	Gray						
		Bottom of 91-275 @ 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. 91-275

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	ST	Dark gray,,Clay,stiff,w/roots,slickensided	CH	38.5											
2	2-4	2.00	ST	Brown,Clay,Very stiff,w/roots,slickensided	CH	32.3			72								
3	4-6	1.50	ST	Brown,Clay,Stiff,w/roots,slickensided	CH	32.0											
4	6-8	0.75	MD	Brown,Clay,Medium stiff,Silty,w/ferrous stains	CL	25.2											
5	8-10	0.00	VS	Brown,Clay,Very Soft,Silty,w/clay pockets (Disturbed sample)	CL	28.6										0.08	
6	10-12	0.25	SO	Tan & gray,Clay,Soft,Silty	CL	25.7	97		35	15						C = 540 #/sq ft (9)	
7	12-14	0.25	SO	Gray,Clay,Soft,Silty,w/silt parting and sand layer	CL	33.9										0.12	
8	14-16	0.25	SO	Gray,Clay,Soft,Silty,w/silt pocket and sand layer	CL	36.8										0.11	
9	16-18	0.25	SO	Gray,Clay,Soft,w/silt pocket	CH	39.7			54		100.0	100.0	99.9	99.8	99.6	0.12	
10	18-20	0.25	SO	Gray,Clay,Soft,Silty,w/silt pocket and sand layer	CL	32.7										0.13	
11	20-22	0.00	VS	Gray,Clay,Very soft,Silty	CL	28.2											
12	22-24	0.25	SO	Gray,Clay,Soft,Silty,w/sand seams	CL	26.9	94		32	18						C = 620 #/sq ft	
13	24-26	0.75	M	Gray,Clay,Medium stiff,w/ferrous stains	CH	40.7										0.30	
14	26.5-28		5	Gray,Silt,loose,sandy	ML						100.0	100.0	100.0	96.8	84.0		
15	32-34	0.50	ST	Brown,Clay,Medium stiff,w/sand pockets and shell fragments	CH	49.3										0.25	
16	34-36	0.25	SO	Tan,Clay,Soft,silty,w/organic material	CL	38.2	78		54	21						C = 620 #/sq ft	
17	36-38	1.25	ST	Gray,Clay,Stiff,w/organic material	CH	47.1											

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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Boring No. 91-275

[illegible]

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