

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE NO.	PEN./TORVANE	SPT. - BLOW COUNT	BORING NO. <u>91-318</u> DATE: BEGIN <u>1-7-92</u> PAGE <u>112</u>		JOB NO. <u>146-531</u> COMPLETE <u>1-7-92</u> Thin Walled Tube		PROJECT <u>C-146</u> ☒ 3" ☐ 6"		LOCATION <u>Sargeant beach sta 413+50</u>		ELEVATION OF HOLE		MANUFACTURER'S DESIGNATION OF DRILL RIG <u>Failing CFD2</u>		GROUNDWATER: DEPTH <u>0</u> ft., ELEV. <u> </u> ft., at end of Drilling		WEATHER <u>warm cloudy</u>		DRILLER <u>D. Gearan</u> LOGGER <u>D. Crowell</u>	
					COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS													
0																						
1	0.50				Tan	clay	M. stiff	silt	w/ Sand & roots													
2	0.50				Gray	clay	M. stiff	silt	w/ roots													
5	1.0				Gray	clay	stiff	silt	tan													
4	0.50				Gray	clay	M. stiff	silt	gray													
10	0.50				Gray	clay	M. stiff	silt	tan													
6	0.00				Gray	clay	V. soft	silt	tan													
7	0.00				Gray	clay	V. soft	silt	w/ shell													
15	0.00				Gray	clay	V. soft	silt	w/ shell													
9	0.00				Gray	clay	V. soft	silt	w/ shell													
20	0.00				Gray	clay	V. soft	silt	tan													
11	1.5				Gray	clay	stiff	silt	tan													
12	1.5				Gray	clay	stiff	silt	tan													
25	2.5				Tan	clay	v. stiff		Gray													
14	2.5				Tan	clay	V. stiff		Gray													
15	2.5				Tan	clay	stiff	silt	Gray													
30	2.5				Gray	clay	V. stiff		tan w/ calc nods.													
16	2.5				Gray	clay	V. stiff		tan w/ calc nods													
17	2.5				Gray	clay	V. stiff		tan w/ calc. nods.													
35	2.5				Gray	clay	V. stiff															

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DEPTH, FEET		SAMPLE NO.	SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>91-318</u> DATE: BEGIN <u>1/7/92</u> PAGE <u>2</u> / <u>1</u> JOB NO. <u>146-531</u> COMPLETE <u>1/7/92</u> Thin Walled Tube PROJECT <u>GIWW</u> ☒ 3" ☐ 6" LOCATION <u>Sargent Branch sta. 413 + 50</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>Failing C.F.D. 2</u> GROUNDWATER: DEPTH <u>0</u> ft., ELEV. _____ ft., at end of Drilling WEATHER <u>warm cloudy</u> DRILLER <u>D. Gagan</u> LOGGER <u>D. Crowell</u>				
						COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
35										
	19	2.5	Gray	clay	V. Stiff	silt				w. calc. nod
	20	2.5	Gray	clay	V. Stiff	silt				w. calc. nod
40	21	2.5	Tan	clay	V. Stiff	silt				w. calc. nod
	22	2.5	Tan	clay	V. Stiff	silt				w. calc. nod
45	23	2.5	Tan	clay	V. Stiff	silt				w. calc. nod
	24	3.0	Tan	clay	V. Stiff	silt				w. calc. nod
50	25	3.5	Tan	clay	V. Stiff	silt				w. calc. nod
										Bottom of 91-318 250
55										W.O.P.: weight of pipe
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. 91-318

S #	Depth (ft)	PP (tsf)	SPT Blows per Foot	Visual Classification	USC	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	0.25		Gray,Clay,Soft,w/shell & shell fragments	CH	31.2											
2	2-4	0.50		Gray,Clay,Medium stiff,w/shell fragments	CH	31.4											
3	4-6	1.00		Brown & Gray,Clay,Stiff,w/ferrous nodules	CH	36.0			59								
4	6-8	0.50		Gray,Clay,Medium stiff,Silty	CH CK	44 44	75	108	74	22						C = 440	PSF
5	8-10	0.75		Brown & gray,Clay,Medium stiff,w/ferrous nodules and shell fragments	CH	36.3										0.35	
6	10-12	0.25		Gray,Clay,Soft,w/shell fragments	CH	40.1			52							0.12	
7	12-14	0.25		Gray,Clay,Soft,w/shell fragments	CH	43.1										0.12	
8	14-16	0.00		Gray,Clay,Very soft,Silty,w/shell	CH CK	42	77	109	54	17						C = 240	PSF
9	16.5-18	0.00	W.O.P	Gray,Clay,Very soft	CH	45.9											
10	18.5-20	0.00	W.O.P	Gray,Clay,Very soft	CH	48.4			74		100.0	100.0	100.0	10.0	100.0		
11	20-22	2.00		Olive gray,Clay,Very stiff	CH	41.3											
12	22-24	1.75		Brown & gray,Clay,Stiff,Slickensided	CH	40.7											
13	24-26	2.25		Brown & gray,Clay,Very stiff,slickensided	CH	36.0											
14	26-28	2.50		Brown & gray,Clay,Very stiff,slickensided	CH	41.5											
15	28-30	3.00		Gray & brown,Clay,Very stiff,w/calcareous nodules,slickensided	CH	41.5											
16	30-32	3.25		Brown & gray,Clay,Very stiff,slickensided	CH	29.1											
17	32-34	3.75		Olive gray,Clay,Very stiff,w/calcareous nodules	CH	25.4			63								

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

41.5
47.1

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											#4	#10	#40	#100	#200		
18	34-36	3.25		Olive gray,Clay,Very stiff,w/calcareous nodules	CH	26.1											
19	36-38	3.00		Olive gray,Clay,Very stiff,w/calcareous nodules	CH	26.4											
20	38-40	3.25		Olive gray,Clay,Very stiff,w/calcareous nodules	CH	24.2											
21	40-42	3.00		Brown & gray,Clay,Very stiff,w/calcareous nodules	CH	23.8											
22	42-44	3.25		Brown & gray,Clay,Very stiff,Silty,w/calcareous nodules	CL	19.4											
23	44-46	1.50		Brown,Clay,stiff,Silty,w/calcareous nodules	CL	19.5											
24	46-48	4.00		Brown,Clay,Very stiff,w/silt seams & ferrous stains,slickensided	CH	24.7											
25	48-50	4.25		Brown,Clay,Hard,w/silt seams & ferrous stains, slickensided	CH	23.9			59								

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