

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE NO.	SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>91-271</u> DATE: BEGIN <u>4/1/91</u> PAGE <u>1/1</u> JOB NO. <u>146531</u> COMPLETE <u>4/1/91</u> Thin Walled Tube PROJECT <u>G.I. Wall</u> ☒ 3" ☐ 6" LOCATION <u>Switzer's bench</u> Sta <u>37+00</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>Failing C.F.D. 2</u> GROUNDWATER: DEPTH <u>6</u> ft., ELEV. _____ ft., at end of Drilling WEATHER <u>Clear cool</u> DRILLER <u>D. Galaro</u> LOGGER <u>D. Crowell</u>				
		COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS				
0										
1	0.50	Gray	Clay	Medium stiff	silt	of sand + roots				
2	1.0	Gray	Clay	stiff	silt	roots				
3	1.5	Tan	Clay	stiff	silt	Gray				
4	2.0	Tan	Clay	Medium stiff	silt	Gray				
5	2.5	Tan	Clay	stiff	silt	Gray				
6	3.0	Tan	Clay	stiff	silt	Gray				
7	3.5	Tan	Clay	stiff	silt	Gray				
8	4.0	Tan	Clay	stiff	silt	Gray				
9	4.5	Tan	Clay	stiff	silt	Gray				
10	5.0	Tan	Clay	stiff	silt	Gray				
11	5.5	Tan	Clay	stiff	silt	Gray				
12	6.0	Tan	Clay	stiff	silt	Gray				
13	6.5	Tan	Clay	stiff	silt	Gray				
14	7.0	Tan	Clay	stiff	silt	Gray				
15	7.5	Tan	Clay	stiff	silt	Gray				
16	8.0	Tan	Clay	stiff	silt	Gray				
17	8.5	Tan	Clay	stiff	silt	Gray				
18	9.0	Tan	Clay	stiff	silt	Gray				
19	9.5	Tan	Clay	stiff	silt	Gray				
20	10.0	Tan	Clay	stiff	silt	Gray				
21	10.5	Tan	Clay	stiff	silt	Gray				
22	11.0	Tan	Clay	stiff	silt	Gray				
23	11.5	Tan	Clay	stiff	silt	Gray				
24	12.0	Tan	Clay	stiff	silt	Gray				
25	12.5	Tan	Clay	stiff	silt	Gray				
26	13.0	Tan	Clay	stiff	silt	Gray				
27	13.5	Tan	Clay	stiff	silt	Gray				
28	14.0	Tan	Clay	stiff	silt	Gray				
29	14.5	Tan	Clay	stiff	silt	Gray				
30	15.0	Tan	Clay	stiff	silt	Gray				
31	15.5	Tan	Clay	stiff	silt	Gray				
32	16.0	Tan	Clay	stiff	silt	Gray				
33	16.5	Tan	Clay	stiff	silt	Gray				
34	17.0	Tan	Clay	stiff	silt	Gray				
35	17.5	Tan	Clay	stiff	silt	Gray				
36	18.0	Tan	Clay	stiff	silt	Gray				
37	18.5	Tan	Clay	stiff	silt	Gray				
38	19.0	Tan	Clay	stiff	silt	Gray				
39	19.5	Tan	Clay	stiff	silt	Gray				
40	20.0	Tan	Clay	stiff	silt	Gray				
41	20.5	Tan	Clay	stiff	silt	Gray				
42	21.0	Tan	Clay	stiff	silt	Gray				
43	21.5	Tan	Clay	stiff	silt	Gray				
44	22.0	Tan	Clay	stiff	silt	Gray				
45	22.5	Tan	Clay	stiff	silt	Gray				
46	23.0	Tan	Clay	stiff	silt	Gray				
47	23.5	Tan	Clay	stiff	silt	Gray				
48	24.0	Tan	Clay	stiff	silt	Gray				
49	24.5	Tan	Clay	stiff	silt	Gray				
50	25.0	Tan	Clay	stiff	silt	Gray				
51	25.5	Tan	Clay	stiff	silt	Gray				
52	26.0	Tan	Clay	stiff	silt	Gray				
53	26.5	Tan	Clay	stiff	silt	Gray				
54	27.0	Tan	Clay	stiff	silt	Gray				
55	27.5	Tan	Clay	stiff	silt	Gray				
56	28.0	Tan	Clay	stiff	silt	Gray				
57	28.5	Tan	Clay	stiff	silt	Gray				
58	29.0	Tan	Clay	stiff	silt	Gray				
59	29.5	Tan	Clay	stiff	silt	Gray				
60	30.0	Tan	Clay	stiff	silt	Gray				
61	30.5	Tan	Clay	stiff	silt	Gray				
62	31.0	Tan	Clay	stiff	silt	Gray				
63	31.5	Tan	Clay	stiff	silt	Gray				
64	32.0	Tan	Clay	stiff	silt	Gray				
65	32.5	Tan	Clay	stiff	silt	Gray				
66	33.0	Tan	Clay	stiff	silt	Gray				
67	33.5	Tan	Clay	stiff	silt	Gray				
68	34.0	Tan	Clay	stiff	silt	Gray				
69	34.5	Tan	Clay	stiff	silt	Gray				
70	35.0	Tan	Clay	stiff	silt	Gray				
71	35.5	Tan	Clay	stiff	silt	Gray				
72	36.0	Tan	Clay	stiff	silt	Gray				
73	36.5	Tan	Clay	stiff	silt	Gray				
74	37.0	Tan	Clay	stiff	silt	Gray				
75	37.5	Tan	Clay	stiff	silt	Gray				
76	38.0	Tan	Clay	stiff	silt	Gray				
77	38.5	Tan	Clay	stiff	silt	Gray				
78	39.0	Tan	Clay	stiff	silt	Gray				
79	39.5	Tan	Clay	stiff	silt	Gray				
80	40.0	Tan	Clay	stiff	silt	Gray				
81	40.5	Tan	Clay	stiff	silt	Gray				
82	41.0	Tan	Clay	stiff	silt	Gray				
83	41.5	Tan	Clay	stiff	silt	Gray				
84	42.0	Tan	Clay	stiff	silt	Gray				
85	42.5	Tan	Clay	stiff	silt	Gray				
86	43.0	Tan	Clay	stiff	silt	Gray				
87	43.5	Tan	Clay	stiff	silt	Gray				
88	44.0	Tan	Clay	stiff	silt	Gray				
89	44.5	Tan	Clay	stiff	silt	Gray				
90	45.0	Tan	Clay	stiff	silt	Gray				
91	45.5	Tan	Clay	stiff	silt	Gray				
92	46.0	Tan	Clay	stiff	silt	Gray				
93	46.5	Tan	Clay	stiff	silt	Gray				
94	47.0	Tan	Clay	stiff	silt	Gray				
95	47.5	Tan	Clay	stiff	silt	Gray				
96	48.0	Tan	Clay	stiff	silt	Gray				
97	48.5	Tan	Clay	stiff	silt	Gray				
98	49.0	Tan	Clay	stiff	silt	Gray				
99	49.5	Tan	Clay	stiff	silt	Gray				
100	50.0	Tan	Clay	stiff	silt	Gray				

Bottom of 91-271 @ 30'

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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-271

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	1.50		Dark brown,Clay,Stiff,w/sand pockets	CH	34.4											
2	2-4	1.25		Gray,Clay,Stiff,w/roots	CH	37.7			65	26							
3	4-6	1.00		Brown,Clay,Stiff	CH	45.0											
4	6-8	0.75		Brown,Clay,Medium stiff	CH	39.9											
5	8-10	1.75		Dark brown,Clay,Stiff	CH	28.8											
6	10-12	1.25		Brown,Clay,Stiff	CH	40.6											
7	12-14	1.25		Brown,Clay,stiff,w/ferrous stains	CH	39.0			66	26							
8	14-16	1.25		Brown,Clay,Stiff	CH	44.3											
9	16-18	1.50		Brown,Clay,Stiff	CH	45.6											
10	18-20	0.50		Grayish brown,Clay,Medium stiff,Sandy	CL	31.1										0.25	
11	20-22	0.75		Brown,Clay,Medium stiff	CH	40.9	81.4	114.7	60	27	100.0	100.0	99.9	99.7	95.4	0.35	
12	22-24	0.50		Brown,Clay,Medium stiff	CH	27.5										0.20	
13	24.5-26		16	Brown,Sand,Medium dense,Silty	S M												
14	28-30	0.50		Gray,Clay,Medium stiff,w/sand 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