

E176.9

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	BORING NO. <u>97300</u> DATE: BEGIN <u>11-21-91</u> PAGE <u>112</u>				
			JOB NO. <u>146531</u> COMPLETE <u> </u> Thin Walled Tube <u> </u>				
			PROJECT <u>GIWW</u> ☒ 3" ☐ 6"				
			LOCATION <u>SARGENT BEACH St 313+00</u>				
			ELEVATION OF HOLE <u> </u>				
			MANUFACTURER'S DESIGNATION OF DRILL RIG <u>ARDCO</u>				
			GROUNDWATER: DEPTH <u>1</u> ft., ELEV. <u> </u> ft., at end of Drilling				
			WEATHER <u>CLEAR</u>				
			DRILLER <u>DOUGLASS MITCHELL</u> LOGGER <u>JOHN A. GENTRY</u>				
			COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0	1	0.25	BROWN	CLAY	SOFT	SILTY	-w/ ROOTS & GRASS
	2	0.75	BROWN	CLAY	MEDIUM STIFF	SILTY	-w/ SILT LAYERS 0'-6'
5	3	0.5	BROWN	CLAY	SOFT	SILTY	
	4	1.0	GRAY	CLAY	STIFF		
	5	0.75	GRAY	CLAY	MEDIUM STIFF		+ BROWN 8'-12'
10	6	0.75	GRAY	CLAY	MEDIUM STIFF		
	7	0.5	BROWN	CLAY	"		+ GRAY 12'-16'
	8	0.75	BROWN	CLAY	MEDIUM STIFF		-w/ SILT LAYER 12'-14'
15	9	1.0	GRAY	CLAY	STIFF		
	10	1.0	GRAY	CLAY	STIFF		
20	11	2.0	LIGHT GRAY	CLAY	VERY STIFF		+ LIGHT BROWN 20'-24'
	12	2.25	LIGHT GRAY	CLAY	VERY STIFF		-w/ CALCAREOUS + FERROUS 22'-24'
25	13	2.5	REDISH BROWN	CLAY	VERY STIFF		
	14	3.0	REDISH BROWN	CLAY	VERY STIFF		
	15	2.5	LIGHT GRAY	CLAY	VERY STIFF		+ LIGHT BROWN 28'-
30	16	3.25	LIGHT GRAY	CLAY	VERY STIFF		-w/ CALCAREOUS FERROUS 30'-34'
	17	4.0	LIGHT GRAY	CLAY	"		-w/ SILT LAYER 30'-34'
35	18	1.75	REDISH BROWN	CLAY	STIFF	SILTY	+ LIGHT GRAY

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DEPTH, FEET		SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>91-300</u> DATE: BEGIN <u>11-21-91</u> PAGE <u>212</u> JOB NO. <u>14G531</u> COMPLETE <u>11-21-91</u> Thin Walled Tube PROJECT <u>GZWW</u> ☒ 3" ☐ 6" LOCATION <u>SARGENT BEACH ST 313+00</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>ARDCU</u> GROUNDWATER: DEPTH <u>1</u> ft., ELEV. _____ ft., at end of Drilling WEATHER <u>CLEAR</u> DRILLER <u>DOUGLASS</u> LOGGER <u>JOHN A. GENTRY</u>				
					COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
35		19	2.0		REDISH BROWN	CLAY	Very STIFF	SILTY	
		20	2.0		REDISH BROWN	CLAY	Very STIFF	SILTY	-W/SILT SEAMS 38'-40'
40		21	1.5		REDISH BROWN	CLAY	STIFF	SILTY	
		22	3.25		REDISH BROWN	CLAY	VERY STIFF		-W/SAND LAYER 41'-42'
		23	3.25		REDISH BROWN	CLAY	VERY STIFF		* LIGH GRAY BELOW 42'
45		24	3.25		REDISH BROWN	CLAY	VERY STIFF		
		25	3.5		REDISH BROWN	CLAY	VERY STIFF		
50									

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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-300

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	0.50		Brown,Clay,Medium stiff, w/roots	CH	36.8										0.25	
2	2 - 4	1.00		Brown,Clay,Stiff, w/roots	CH	35.0										0.40	
3	4 - 6	1.25		Brown,Clay,Stiff,Silty,w/sand pockets	CL	27.1	95.6	121.5	35		100.0	100.0	100.0	99.9	95.1	0.30	
4	6 - 8	1.00		Gray,Clay,Stiff,w/ferrous stains	CH	31.5										0.35	
5	8 - 10	0.75		Gray,Clay,Medium stiff	CH	39.2	82		61	17					95		
6	10 - 12	0.75		Gray & brown,Clay,Medium stiff,w/ferrous stains	CH	35.2	84.8	114.6	74		100.0	100.0	99.9	99.8	98.2	0.35	
7	12 - 14	0.50		Brown,Clay,Medium stiff	CH	30.7										0.20	
8	14 - 16	1.00		Brown,Clay,Stiff	CH	38.1										0.40	
9	16 - 18	0.50		Gray,Clay,Medium stiff,w/sand pockets	CH	41.8										0.30	
10	18 - 20	0.50		Gray,Clay,Medium stiff	CH	41.7										0.35	
11	20 - 22	1.50		Gray & yellowish brown,Clay,Stiff,w/ferrous nodules and ferrous stains	CH	42.0											
12	22 - 24	2.00		Yellowish brown & Gray,Clay,Very stiff, w/calcareous nodules	CH	39.4											
13	24 - 26	2.00		Brown & gray,Clay,Very stiff,w/calcareous nodules	CH	39.4	82.9	115.5	93		100.0	100.0	99.6	99.1	99.0		
14	26 - 28	2.00		Brown & gray,Clay,Very stiff,w/calcareous nodules	CH	37.1											
15	28 - 30	2.50		Gray,Clay,Very stiff,w/calcareous nodules, slickensided	CH	36.0											
16	30 - 32	2.50		Gray & brown,Clay,Very stiff,w/calcareous nodules	CH	33.3											
17	32 - 34	3.00		Brown,Clay,Very stiff,Silty,w/calcareous nodules	CL	17.6											

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. 91-300

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