

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>91208</u>	DATE: BEGIN <u>07-12-91</u>	PAGE <u>1</u> of <u>12</u>
					JOB NO. <u>14G490</u>	COMPLETE <u>7-12-91</u> Thin Walled Tube	
					PROJECT <u>G I W W</u>	☐ 3" ☒ 6"	
					LOCATION <u>SERGEANT BEACH</u>		
					ELEVATION OF HOLE _____		
					MANUFACTURER'S DESIGNATION OF DRILL RIG <u>F-36</u>		
					GROUNDWATER: DEPTH <u>3</u> ft., ELEV. _____ ft., at end of Drilling		
					WEATHER <u>PARTLY CLOUDY</u>		
					DRILLER <u>Robert Tankersley</u>	LOGGER <u>John A. Bentley</u>	
		COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS	
0	1	1.25	BROWN CLAY	STIFF		*w/ ROOTS 0-2'	
	2	1.0	"	"			
5	3	1.0	"	"			
	4	1.0	"	"			
	5	1.25	"	"			
10	6	1.25	"	"		*w/ SILT SEAMS 10'-12'	
	7	1.5	"	"			
15	8	2.0	"	VERY STIFF			
	9	1.75	"	STIFF			
	10	1.5	"	"			
20	11	2.75	"	MEDIUM STIFF			
6"		N/R				-NO Recovery w/ 6" Tube 22-24'	
PUSH 3"	25	0	BROWN CLAY	VERY SOFT		-w/ WOOD 24' (Pushed 3" Tube) #4 GRAY	
6"		N/R				-NO Recovery w/ 6" Tube 26-28'	
PUSH 3"	30	0.25	BROWN CLAY	SOFT		-Pushed 3" Tube 28'-30'	
6"		N/R				-NR w/ 6" Tube 30-32'	
PUSH 3"	35	0.5	BROWN CLAY	SOFT		-Pushed 3" Tube 32-34'	
6"		N/R				-NR w/ 6" Tube 34-36'	

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BORING NO. <u>9128</u>		DATE: BEGIN <u>07-12-91</u>		PAGE <u>212</u>				
JOB NO. <u>146 490</u>		COMPLETE <u>7-12-91</u>		Thin Walled Tube				
PROJECT <u>GIWW</u>				☐ 3" ☒ 6"				
LOCATION <u>SARGENT BEACH</u>								
ELEVATION OF HOLE _____								
MANUFACTURER'S DESIGNATION OF DRILL RIG <u>F-3</u>								
GROUNDWATER: DEPTH <u>3</u> ft., ELEV. _____ ft., at end of Drilling								
WEATHER _____								
DRILLER <u>ROBERT TANKERSLEY</u> LOGGER <u>JOHN P. SEINER</u>								
DEPTH, FEET	SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
35		N/R						
PUSH 3"	15	0.5		BROWN	CLAY	SOFT		-w/SLT POCKETS BELOW 36"
6"		N/R						-NR w/6" Tube 38-40
PUSH 3"	16	0.5		BROWN	CLAY	SOFT		*GRAY
6"		N/R						-NR w/6" Tube 42-44
PUSH 3"	17	0.5		BROWN	CLAY	SOFT		-w/SHL 44-46"
6"								-NR w/6" Tube 46-48
PUSH 3"	18	1.5		BROWN	CLAY	STIFF		-NR w/6" Tube 50-52
6"								
3"	19	1.5		BROWN	CLAY	STIFF		-NR w/6" Tube 54-56
	20	1.75		BROWN	CLAY	STIFF		
	21	1.5		BROWN				*GRAY

Project Gulf Intracoastal Waterway near Sargeant Beach, Texas
Contract No. DACW64-91-D-001, Delivery Order No. 0022

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-208

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	1.00		Brown, Clay, Stiff, w/Roots	CH	41.3											
2	2-4	1.00		Brown, Clay, Stiff, w/Roots	CH	30.8											
3	4-6	1.50		Brown, Clay, Stiff, w/Ferrous stains & Blocky structure	CH	37.6	84.2	115.9	58	24	100.0	100.0	99.9		99.3		0.63
4	6-8	1.00 0.5		Brown, Clay, Stiff <i>Soft - SWD</i>	CH	44.6	77		69	26					96		
5	8-10	1.00		Brown, Clay, Stiff, w/Blocky structure & slickensided	CH	43.0											
6	10-12	1.25 0.75		Brown, Clay, Stiff, w/Silt seams <i>Med - SWD</i>	CH	31.9	90		63	20					99		
7	12-14	1.25		Brown, Clay, Stiff, w/Ferrous stains	CH	43.3	76.5	109.7	88	34	100.0	100.0	100.0		100.0		0.64
8	14-16	1.00		Brown, Clay, Stiff, w/Ferrous stains	CH	41.3											
9	16-18	1.00		Brown, Clay, Stiff	CH	41.5											
10	18-20	1.50 1.25		Brown, Clay, Stiff <i>SWD</i>	CH	40.6	81?		74	23					99		
11	20-22	0.50		Brown, Clay, Medium stiff, w/Ferrous stains <i>Soft</i>	CH	47.7										0.30	
	22-24			No recovery													
12	24-26	0.50		Brown, Clay, Medium stiff, w/Ferrous nodules <i>Soft</i>	CH	49.6	71.6	107.1	66	27	100.0	100.0	100.0		99.6	0.25	0.46
	26-28			No recovery													
13	28-30	0.25 0.25		Brown, Clay, Soft <i>V/Soft SWD</i>	CH	57.3	70		71	24					99		
	30-32			No recovery													
14	32-34	0.50 0.25		Brown, Clay, Medium stiff <i>V/so SWD</i>	CH	50.2	72?		69	22					98		

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

Project : Gulf Intracoastal Waterway near Sargeant Beach, Texas
Contract No. DACW64-91-D-001, Delivery Order No. 0022

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-208

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		
	34-36			No recovery													
15	36-38	0.25		Brown, Clay, Soft, w/ Silt pockets	CH	44.0	74.4	107.2	65	26	100.0	99.6	98.8		97.5	0.20	0.42
	38-40			No recovery													
16	40-42	0.25		Brown, Clay, Soft	CH	56.6										0.10	
	42-44			No recovery													
17	44-46	0.25		Brown, Clay, Soft	CH	61.1	63.8	102.9	76	28	100.0	99.1	98.9		98.9	0.10	0.29
	46-48			No recovery													
18	48-50	0.50		Brown, Clay, Medium stiff	CH	48.1											
	50-52			No recovery													
19	52-54	1.25		Brown, Clay, Stiff, w/ Blocky structure	CH	37.8											
	54-56			No recovery													
20	56-58	2.00		Brown, Clay, Very stiff, w/ Blocky structure	CH	37.3	84.8	116.4	65	25	100.0	100.0	100.0		100.0		0.65
21	58-60	1.25		Dark brown, Clay, Stiff, w/ Blocky structure, Slickensided	CH	46.6											

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