

DEPTH, FEET	SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>9/306</u> DATE: BEGIN <u>12-05-91</u> PAGE <u>111</u>				
				JOB NO. <u>146531</u> COMPLETE <u>12-05-91</u> Thin Walled Tube ☒ 3" ☐ 6"				
				PROJECT <u>GIWW</u>				
				LOCATION <u>SARGENT BEACH STA 351+00</u>				
				ELEVATION OF HOLE <u>351+00</u>				
				MANUFACTURER'S DESIGNATION OF DRILL RIG				
				GROUNDWATER: DEPTH <u>0</u> ft., ELEV. <u>5.7</u> ft., at end of Drilling				
				WEATHER <u>CLOUDY & COOL</u>				
				DRILLER <u>DOUGLAS MITCHELL</u> LOGGER <u>JOHN A. GENTRI</u>				
				COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0	1	0		GRAY	CLAY	VERY SOFT	SANDY	* BROWN W/ROOTS 0'-4'
	2	0		GRAY	CLAY	VERY SOFT	SANDY	SHORT SAMPLE
5	3	0.25		GRAY	CLAY	SOFT	T-9	- W/SHELL FRAGMENTS 4'-10
	4	0.25		GRAY	CLAY	SOFT		
	5	0.25		GRAY	CLAY	SOFT	107-9	
10	6	0.5		GRAY	CLAY	MEDIUM STIFF		* BROWN
	7	0.75		LIGHT GRAY	CLAY	MEDIUM STIFF		* LIGHT BROWN 12'-20'
15	8	1.0		LIGHT GRAY	CLAY	STIFF		
	9	1.0		LIGHT GRAY	CLAY	STIFF		
	10	2.0		LIGHT GRAY	CLAY	VERY STIFF		LAST CIRCULATION 20'
20	11	2.5		REDISH BROWN	CLAY	VERY STIFF		* LIGHT GRAY 20'
	12	2.25		REDISH BROWN	CLAY	VERY STIFF		- W/ CALCEAREOUS & FERRUGIN 225-30
25	13	2.25		REDISH BROWN	CLAY	VERY STIFF		
	14	2.75		REDISH BROWN	CLAY	VERY STIFF		
	15	2.75		REDISH BROWN	CLAY	VERY STIFF		
30	16	4.0		REDISH BROWN	CLAY	VERY STIFF		
	17	4.5		REDISH BROWN	CLAY	HARD		
35	18	3.5		REDISH BROWN	CLAY	VERY STIFF		

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE	SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. <u>91306</u> DATE: BEGIN <u>12-05-91</u> PAGE <u>2 12</u> JOB NO. <u>146531</u> COMPLETE <u>1205-91</u> Thin Walled Tube ☒ 3" ☐ 6" PROJECT <u>G.I.W.W.</u> LOCATION <u>SARGENT BEACH STA 351+00</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>ARDCU</u> GROUNDWATER: DEPTH <u>0</u> ft., ELEV. _____ ft., at end of Drilling WEATHER <u>CLOUDY + COOL</u> DRILLER <u>DOUGLAS MITCHELL</u> / LOGGER <u>JOHN A GENTRY</u>				
		COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS				
35	19	3.5	REDISH BROWN CLAY	VERY STIFF		* LIGHT GRAY				
	20	3.75	REDISH BROWN CLAY	VERY STIFF						
40	21	3.75	REDISH BROWN CLAY	VERY STIFF						
	22	4.25	REDISH BROWN CLAY	HARD						
45	23	3.75	REDISH BROWN CLAY	VERY STIFF		- w/ FERRUS BELOW 44'				
	24	3.25	REDISH BROWN CLAY	VERY STIFF		- w/ CALCEAREOUS BELOW 46'				
	25	3.5	REDISH BROWN CLAY	VERY STIFF						
50										
55										
60										
65										
70										

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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-306

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	0.00		Gray, Clay, Very soft, Sandy, w/roots	CL	29.9											
2	2-4	0.00		gray, Clay, Very soft, sandy, w/roots	CL	36.4	83.3	113.6	35	18	100.0	100.0	99.9	98.5	84.1	0.06	
3	4-6	0.25 <i><.25</i>		Gray, Clay, Soft, w/shell fragments <i>SWD</i>	CH	<i>47.7</i>	<i>73</i>	<i>107.8</i>	<i>54</i>	<i>17</i>					<i>91</i>		<i>c = 120</i>
4	6-8	0.00		Gray, Clay, Very soft, w/shell fragments	CH	56.9										0.07	
5	8-10	<i><.25</i>		Gray, Clay, Soft, w/shell fragments <i>SWD</i>	CH	<i>51.2</i>	<i>71</i>	<i>107.0</i>	<i>58</i>	<i>17</i>					<i>92</i>		<i>c = 150</i>
6	10-12	0.50		Brown & gray, Clay, Medium Stiff, w/shell fragments and sand pockets	CH	40.9	78.4	110.5	60	26	99.9	99.7	99.5	99.2	94.5	0.35	
7	12-14	0.75 <i>5-75</i>		Light gray, Clay, Medium stiff <i>SWD</i>	CH	<i>42.3</i>	<i>76</i>	<i>108</i>	<i>71</i>	<i>21</i>					<i>93</i>		<i>c = 400</i>
8	14-16	1.00		Gray & yellowish brown, Clay, Stiff	CH	42.2											
9	16-18	1.25		Olive gray, Clay, Stiff, w/ferrous nodules	CH	37.7											
10	18-20	1.50		Olive gray, Clay, Stiff, w/calcareous & ferrous nodules	CH	39.5	83.0	115.8	93		98.5*	98*	97.6	96.8	93.8		
11	20-22	2.25		Olive gray, Clay, Very stiff, w/calcareous & ferrous nodules	CH	35.2											
12	22-24	2.25		Olive gray, Clay, Very stiff, w/calcareous & ferrous nodules	CH	38.2											
13	24-26	2.25		Brown & gray, Clay, Very stiff, w/calcareous nodules and ferrous stains	CH	40.4											
14	26-28	2.50		Brown & gray, Clay, Very stiff, w/calcareous nodules, slickensided	CH	30.4											
15	28-30	2.50		Brown & gray, Clay, Very stiff, w/calcareous nodules, slickensided	CH	27.5											
16	30-32	4.00		Red, Clay, Very stiff, w/ferrous stains	CH	22.5	105.7	129.5	52		100.0	100.0	99.6	99.2	98.8		
17	32-34	3.75		Red, Clay, Very stiff, w/ferrous stains	CH	28.9											

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

* : Material Retained are Calcareous and Ferrous Nodules

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

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											#4	#10	#40	#100	#200		
18	34-36	3.75		Red, Clay, Very stiff, w/ferrous stains	CH	26.5											
19	36-38	3.75		Red, Clay, Very stiff, w/ferrous stains	CH	28.1											
20	38-40	3.50		Red & gray, Clay, Very stiff, w/ferrous stains, slickensided	CH	34.7											
21	40-42	3.25		Red & gray, Clay, Very stiff, w/ferrous stains, slickensided	CH	29.3	95.1	122.9	72								
22	42-44	3.00		Red & gray, Clay, Very stiff, w/ferrous stains	CH	31.0											
23	44-46	3.50		Red & gray, Clay, Very stiff, w/ferrous stains	CH	24.8											
24	46-48	3.50		Red & gray, Clay, Very stiff, w/ferrous stains	CH	26.8											
25	48-50	3.25		Red & gray, Clay, Very stiff, w/ferrous stains	CH	22.2											

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