

DEPTH, FEET		SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
BORING NO. <u>91-298</u> DATE: BEGIN <u>11-12-91</u> PAGE <u>1 / 2</u> JOB NO. <u>146531</u> COMPLETE <u>11/13/91</u> Thin Walled Tube ☒ 3" ☐ 6" PROJECT <u>SARGENT BEACH</u> LOCATION <u>ST 295+00</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>ARDCO</u> GROUNDWATER: DEPTH <u>1</u> ft., ELEV. _____ ft., at end of Drilling WEATHER <u>PARTLY CLOUDY & COOL</u> DRILLER _____ LOGGER _____									
0		1	4.5		BROWN	SAND	LOOSE	SILTY	* FINE w/ROOTS 0'-2'
5		2	5.8		BROWN	SAND	MEDIUM DENSE	SILTY	* FINE
10		3	1.0		BROWN	CLAY	STIFF		* LIGHT GRAY 10'-14'
		4	1.25		BROWN	CLAY	STIFF		-w/ SILT POCKETS 12'-14'
15		5	1.25		LIGHT GRAY	CLAY	STIFF		* LIGHT BROWN 14'-16'
		6	1.0		LIGHT GRAY	CLAY	STIFF	SANDY	-w/ CALCAREOUS & FERROUS 16'-
20		7	1.0		LIGHT GRAY	CLAY	STIFF	SANDY	
		8	1.75		LIGHT GRAY	CLAY	STIFF	SANDY	
		9	1.75		LIGHT GRAY	CLAY	STIFF	SANDY	
25		10	1.75		REDISH BROWN	CLAY	STIFF		-w/ SILT SM(D)
		11	3.5		REDISH BROWN	CLAY	VERY STIFF		* LIGHT GRAY
		12	3.0		REDISH BROWN	CLAY	VERY STIFF		-w/ SILT POCKETS 26'-28'
30		13	2.25		REDISH BROWN	CLAY	VERY STIFF		-w/ CALCAREOUS & FERROUS 26'-30'
		14	2.75		LIGHT GRAY	CLAY	VERY STIFF		* LIGHT BROWN 32'-34'
35		15	2.75		LIGHT GRAY	CLAY	VERY STIFF		-w/ CALCAREOUS & FERROUS

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO.	DATE: BEGIN	PAGE	COMPLETE	Thin Walled Tube
					91-298	11-12-91	2	12	
					JOB NO. 146 531				
					PROJECT G.I.W.N.				☐ 3" ☐ 6"
					LOCATION SARGENT BEACH ST 295400				
					ELEVATION OF HOLE				
					MANUFACTURER'S DESIGNATION OF DRILL RIG ARDCO				
					GROUNDWATER: DEPTH 1 ft., ELEV. ft., at end of Drilling				
					WEATHER PARTLY CLOUDY & COOL				
					DRILLER DOUGLAS MITCHELL	LOGGER JOHN A. GENTR			
		COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS			
35	16	3.5	GRAY CLAY	VERY STIFF		BROWN - w/ CALCIUM & FERROUS 34-40'			
40	17	4.25	BROWN CLAY	HARD		+ LIGHT GRAY BELOW 38'			
45	18	4.25	BROWN CLAY	HARD		- w/ SILT POCKETS BELOW 40'			
	19	3.5	REDISH BROWN CLAY	VERY STIFF		SHORT SAMPLE			
	20	3.75	BROWN CLAY	VERY STIFF					
	21	4.25	REDISH BROWN CLAY	HARD					
50	22	4.0	REDISH BROWN CLAY	HARD					

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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-298

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	0-1.5		9	Brown,Sand,Loose,Silty,w/roots	S M												
2	5.5 - 7		15	Brown,Sand,Medium dense,Silty	S M						100.0	100.0	99.9	92.2	39.8		
3	10 - 11.5	1.25		Brown,Clay,Stiff	CH	30.2											
4	12 - 14	1.75		Brown,Clay,Stiff	CH	31.4											
5	14.5 - 16	1.00		Gray & tan,Clay,Stiff,w/calcareous nodules	CH	25.9											
6	16 - 18	1.00 5.225		Light gray,Clay,Stiff,Sandy,w/ calcareous nodules <i>SWD</i>	CL	<i>18.9</i>	<i>107</i>		<i>41</i>	<i>15</i>					<i>61</i>		
7	18 - 20	1.00		Gray & tan,Clay,Stiff,w/calcareous nodules & sand pockets	CH	28.9	91.9	118.5	50		99.5	98.8	98.3	97.5	93.0		
8	20 - 22	2.00		Gray & tan,Clay,Very stiff,Sandy,w/calcareous nodules	CL	21.0											
9	22 - 24	2.00		Gray & tan,Clay,Very stiff,Sandy,w/calcareous nodules	CL	18.5											
10	24 - 26	1.00		Reddish brown,Clay,Stiff,w/silt seam and calcareous nodules	CH	23.6											
11	26 - 28	3.50		Reddish brown,Clay,Very stiff,w/calcareous nodules	CH	27.0	98.5	125.1	78		99.2	98.9	98.6	98.3	96.5		
12	28 - 30	3.50		Reddish brown,Clay,Very stiff,w/calcareous nodules and mica	CH	30.7											
13	30 - 32	2.50		Reddish brown,Clay,Very stiff,w/calcareous nodules	CH	40.6											
14	32 - 34	3.00		Gray & tan,Clay,Very stiff,w/sand partings	CH	34.3											
15	34 - 36	3.50		Gray & tan,Clay,Very stiff,w/calcareous nodules & sand pockets	CH	27.2	98.5	125.3	73		100.0	99.5	98.5	97.5	93.3		
16	36 - 38	3.75		Gray & tan,Clay,Very stiff,w/calcareous nodules	CH	27.9											
17	38 - 40	3.50		Reddish brown,Clay,Very stiff,w/calcareous nodules	CH	27.9											

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

q_u : Unconfined Compressive Strength, W_{OH} : Weight of hammer, W_{OP} : Weight of pipe