Fig 6.6

U.S. ARMY CORPS OF ENGINEERS

BORING NO. 91302 DATE: BEGIN 11-25-91 PAGE 1 / 1
JOB NO. 14G531 COMPLETE 11-25-91 Thin Walled Tube ☑ 3" ☐ 6"
PROJECT GIWW
LOCATION SARGENT BEACH STA. 326+00
ELEVATION OF HOLE
MANUFACTURER'S DESIGNATION OF DRILL RIG ARDCO
GROUNDWATER: DEPTH ▽ ft., ELEV. ____ ft., at end of Drilling
WEATHER PARTLY CLOUDY
DRILLER DOUGLAS MITCHELL LOGGER JOHN A GENTRY

DEPTH, FEET	SAMPLE	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0		1	0.5	BROWN	CLAY	SOFT	SANDY	-W/ROOTS 0'-2'
		2	0.5	GRAY	CLAY	SOFT	SANDY	
5		3	0.75	GRAY	CLAY	MEDIUM STIFF		*+BROWN 4-6' LOST CIRCULATION 6FT
		4	0.5	GRAY	CLAY	SOFT		
		5	0.5	LIGHT GRAY	CLAY	SOFT		*+BROWN 8'-10'
10		6	0.75	BROWN	CLAY	MEDIUM STIFF	SILTY	LOST CIRCULATION 12FT
		7	0.25	BROWN	CLAY	SOFT	SILTY	
15		8	1.0	GRAY	CLAY	STIFF		-W/SILT LAYER
		9	1.0	GRAY	CLAY	STIFF		
		10	1.0	GRAY	CLAY	STIFF		+BROWN 18'-22'
20		11	2.0	LIGHT GRAY	CLAY	VERY STIFF		
		12	1.75	LIGHT GRAY	CLAY	STIFF		
25		13	1.75	LIGHT GRAY	CLAY	STIFF		
		14	2.25	REDISH BROWN	CLAY	VERY STIFF		+LIGHT GRAY 26'
		15	2.25	REDISH BROWN	CLAY	VERY STIFF		-W/Calcareous +Ferrous 26'.
30		16	2.0	LIGHT BROWN	CLAY	VERY STIFF		
		17	2.75	LIGHT BROWN	CLAY	VERY STIFF		+LIGHT GRAY 32-36'
35		18	3.25	LIGHT BROWN	CLAY	VERY STIFF		

GEOTEST ENGINEERING, INC.

U.S. ARMY CORPS OF ENGINEERS

BORING NO. 91302 DATE: BEGIN 11-25-91 PAGE 2 12
JOB NO. 146571 COMPLETE 11-25-91 Thin Walled Tube
PROJECT GIWW ☒ 3" ☐ 6"
LOCATION SARGENT BEACH STA. 326+00
ELEVATION OF HOLE
MANUFACTURER'S DESIGNATION OF DRILL RIG ARDCO
GROUNDWATER: DEPTH 4 ft., ELEV. ____ ft., at end of Drilling
WEATHER PARTLY CLOUDY
DRILLER DOUGLAS MITCHELL LOGGER JOHN A. GENTRY

DEPTH, FEET	SAMPLE	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
35								SLIGHT SHAY 36'-48'
		19	4.0	BROWN	CLAY	HARD		- W/ SILTY CLAY LAYERS 36'
		20	2.75	REDISH BROWN	CLAY	VERY STIFF		
40		21	1.75	BROWN	CLAY	STIFF		
		22	4.5+	BROWN	CLAY	HARD		
45		23	0.5	BROWN	CLAY	MEDIUM STIFF	SILTY	- W/ SILT LAYERS 44-48
		24	1.0	BROWN	CLAY	STIFF	SILTY	
		25	4.0	BROWN	CLAY	HARD		- W/ SILT POCKETS BELOW 48'
50								

GEOTEST ENGINEERING, INC.

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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-302

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)	L L (%)	P L (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
1	0-2	0.25		Gray,Clay,Soft,Sandy,w/roots	CL	42.5										0.10	
2	2-4	0.25		Gray & yellowish brown,Clay,Soft,Sandy	CL	26.3	96.6	122.0	42		100.0	99.9	99.7	99.2	74.1	0.10	
3	4-6	~~0.75~~ <.25		Gray,Clay,Medium stiff ~~Soft~~ SWD	CH	30.8	91		58	18					93		
4	6-8	~~0.50~~ <.25		Gray,Clay,Medium stiff ~~Soft~~ SWD	~~CH~~ CL	33	90		39	16					89		
5	8-10	~~0.50~~ .5-.75		Light gray,Clay,Medium ~~stiff~~ SWD	CH	29.8	89		56	18					93		UNC qu = 5.0
6	~~10~~-12 11.6-12	~~0.75~~ <.25	?	Brown,Clay,Medium ~~stiff~~,Silty ~~Soft~~ SWD	~~CL~~ CH	35.7	87		75	20					96		
7	12-14	0.25		Brown,Clay,Soft,Silty SWD	~~CL~~ ML	21.9	99								71		qu = 3.0
8	14-16	0.75		Brown,Clay,Medium stiff	CH	41.3										0.35	
9	16-18	0.75		Gray & yellowish brown,Clay,Medium ~~stiff~~,w/ferrous stains	CH	48.1	72.2	107.0	87		100.0	99.9	99.9	99.6	98.6	0.35	
10	18-20	~~1.00~~ .5-1.		Gray,Clay,Stiff SWD	CH	52.1	76		102	30					99		UNC qu = 5.2
11	20-22	1.00		Gray & yellowish brown,Clay,Stiff,w/ferrous stains	CH	48.6											
12	22-24	1.50		Gray & yellowish brown,Clay,Stiff,w/ferrous nodules,slickensided	CH	44.5	77.0	111.2	114		100.0	99.5	99.4	99.0	98.7		
13	24-26	~~1.75~~ 1.75-2		Light gray,Clay,Stiff SWD	CH	46	76		111	28					99		
14	26-28	2.00		Brown & gray,Clay,Very stiff,w/calcareous & ferrous nodules	CH	41.7											
15	28-30	2.00		Brown & gray,Clay,Very stiff,w/calcareous nodules	CH	37.4											
16	30-32	2.50		Brown & gray,Clay,Very stiff,w/calcareous nodules	CH	31.6											
17	32-34	2.50		Yellowish gray,Clay,Very stiff,w/sand seams & calcareous nodules	CH	24.1	101.9	126.4	64		99.8	99.5	99.1	98.5	90.1		

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 Sargent Beach, Texas
Contract No. DACW64-92-D-0001

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 91-302

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)	L L (%)	P L (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
18	34-36	3.50		Brown & gray,Clay,Very stiff,w/calcareous & ferrous nodules	CH	21.8											
19	36-38	1.50		Yellowish brown,Clay,Stiff,Silty,w/calcareous nodules	CL	22.4											
20	38-40	1.25		Yellowish brown,Clay,Stiff,Silty	CL	24.4											
21	40-42	0.75		Brown & gray,Clay,Medium stiff,Silty,w/calc-areous nodules	CL	23.1											
22	42-44	3.50		Brown & gray,Clay,Very stiff,Silty,w/calcareous nodules	CL	19.3											
23	44-46	3.00		Yellowish brown,Clay,Very stiff,Silty,w/sand pockets	CL	20.8											
24	46-48	2.75		Yellowish brown,Clay,Very stiff,Silty,w/sand pockets	CL	22.8			30								
25	48-50	3.00		Brown,Clay,Very stiff,w/silt parting & silt pocket	CH	27.7											

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