

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	BORING NO. <u>92-109</u> DATE: BEGIN <u>7-26-92</u> PAGE <u>111</u> JOB NO. <u>146548</u> COMPLETE <u>Thin Walled Tube</u> PROJECT <u>DISPOSAL AREA #5</u> ☒ 3" ☐ 6" LOCATION <u>BROWNSVILLE SHIP CHANNEL</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>C-1000 Marsh Buggy</u> GROUNDWATER: DEPTH <u>5.00</u> ft., ELEV. _____ ft., at end of Drilling WEATHER <u>PARTLY CLOUDY</u> DRILLER <u>SCOTT GREGUREK</u> LOGGER <u>JOHN A. GENTRY</u>				
			COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0							
1.0			BROWN	CLAY	VERY STIFF		* GRAY
2.5			GRAY	CLAY	STIFF	SANDY	* BROWN 2'-8'
3.5			"	"	"		
4.0			"	"	"		
5.0			BROWN	CLAY	VERY STIFF		
6.0			"	"	Medium STIFF		* GRAY 10'-12'
7.0			"	"	"		
8.0			"	"	STIFF		- w/ FERROUS & SA LAKES
9.0			"	"	"		14'-16'
10.0			GRAY	"	MEDIUM STIFF		
11.0			"	"	"		
12.0			"	"	STIFF		
13.0			"	"	"		* BROWN 24'-26'
14.0			BROWN	"	"		* GRAY 26'-30'
15.0			"	"	"		
30							
35							

Project : Disposal area site adjacent to the Brownsville Ship channel for the
Brazos Island Harbor project near Brownsville, Texas
Contract No. DACW64-92-D-0001 Delivery order No. 0025

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 92-109

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	4.5+		Brown&gray,Clay,Hard,Sandy	CL	21.5											
2	2-4	2.75		Gray,Clay,Very stiff,Sandy,w/sand seams&mica	CL	18.6											
3	4-6	2.25		Gray,Clay,Very stiff,Sandy,w/sand seams&mica	CL	25.0	97.8	122.2	36	16	99.5	97.8	95.4	84.3	66.7		
4	6-8	1.50		Gray,Clay,Stiff,Sandy,w/calcareous nodules&mica	CL	24.0											
5	8-10	1.25		Brown,Clay,Stiff,w/calcareous nodules	CH	34.5											
6	10-12	1.00		Brown,Clay,Stiff,w/calcareous nodules	CH	31.6	88.1	115.9	66							0.60	
7	12-14	1.25		Brown&gray,Clay,Stiff,w/calcareous nodules&sand seams	CH	37.1										0.60	
8	14-16	1.00		Brown,Clay,Stiff,w/mica&sand seams	CH	36.0											
9	16-18	2.25		Dark brown,Clay,Very stiff	CH	31.3											
10	18-20	1.25		Gray,Clay,Stiff	CH	36.7	82.4	112.7	66	27							
11	20-22	0.75		Gray,Clay,Medium stiff	CH	51.8											
12	22-24	0.50		Gray,Clay,Medium stiff	CH	41.5											
13	24-26	0.50		Gray,Clay,Medium stiff	CH	37.9											
14	26-28	1.00		Brown,Clay,Stiff	CH	35.4											
15	28-30	1.25		Brown,Clay,Stiff,w/mica	CH	30.3											

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

Geotest Engineering, Inc.