

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET		SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
BORING NO. <u>92-95</u> DATE: BEGIN <u>7-22-92</u> PAGE <u>111</u>					JOB NO. <u>146548</u> COMPLETE <u>7-22-92</u> Thin Walled Tube				
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. <u> </u> ft., at end of Drilling				
WEATHER <u>PARTLY CLOUDY</u>					DRILLER <u>SCOTT GREGUREK</u> LOGGER <u>JOHN A. GENTRY</u>				
0	1	45+	BROWN	CLAY	HARD	SANDY	* LIGHT GRAY	- w/ Sa SM (S)	
	2	2.0	LIGHT GRAY	"	VERY STIFF	"	- w/ Sa LAYERS 2'-6"	+ BROWN	
5	3	1.25	"	"	STIFF	"	- w/ Calc 4'-6"		
	4	2.75	"	"	VERY STIFF	"	- w/ Gv & Sh FRAGMENTS 6'-10"		
10	5	1.25	BROWN	CLAY	STIFF	"	VERY LIGHT GRAY		
	6	1.0	"	"	"	"	- w/ Sa LAYERS		
15	7		GRAY	SAND	"	SILTY	OPEN UP TO 12' LOST CORRELATION		
	8	1.1	"	"	VERY LOOSE	"	SET 3 FT CASEING		
	9	0.5	GRAY	CLAY	MEDIUM STIFF	"	PUSH TUBE * FINE		
	10	1.0	"	"	STIFF	"	- w/ CLAY LAYER 15 1/2 - 16		
20	11	0.5	"	"	MEDIUM STIFF	"			
	12	0.5	"	"	"	"			
25	13	1.25	"	"	STIFF	"	+ BROWN		
	14	0.75	"	"	MEDIUM STIFF	"			
30	15	0.75	GRAY	CLAY	MEDIUM STIFF	SANDY	BELOW 28' w/ SAND LAYERS	* GREEN & BLUE	
35									

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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. 92-95

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,Clay,Hard,Sandy,w/sand seams& calcareous nodules	CL	14.3											
2	2-4	2.75		Brown,Clay,Very stiff,Sandy,w/sand seams& calcareous nodules	CL	17.7	107.9	127.0	31	15	100.0	99.0	97.7	85.2	62.7		
3	4-6	1.50		Brown,Clay,Stiff,Sandy,w/calcareous nodules sand seams&mica	CL	22.2											
4	6-8	1.50		Brown,Clay,Stiff,Sandy,w/calcareous nodules& sand seams	CL	29.2											
5	8-10	1.50		Brown,Clay,Stiff,Sandy,w/calcareous nodules& sand seams	CL	24.2	98.1	121.8	35	17	100.0	99.2	98.7	89.8	75.7		
6	10-12	1.00		Brown&gray,Clay,Stiff,Sandy,w/calcareous nodules&sand seams	CL	24.0											
7	12-14			Gray,Sand,Loose,Silty	S M						100.0	100.0	100.0	68.3	16.6		
8	14.5-16		2	Gray,Sand,Loose,Silty	S M												
9	16-18	0.50		Gray,Clay,Medium stiff	CH	35.8											
10	18-20	0.50		Gray,Clay,Medium stiff	CH	30.2											
11	20-22	0.25		Gray,Clay,Soft,Silty	CL	30.5			45	21							
12	22-24	0.50		Gray,Clay,Medium stiff,Silty	CL	27.4											
13	24-26	1.00		Gray,Clay,Stiff,w/ferrous nodules	CH	29.7											
14	26-28	0.75		Gray,Clay,Medium stiff,w/ferrous nodules	CH	34.6											
15	28-30	1.75		Gray&yellowish gray,Clay,Stiff,Sandy,w/ferrous nodules	CL	20.9											

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

Geotest Engineering, Inc.