Sample No. 00-09 Location: approx. 8,900 ft northeast of Channel to Palacios

Time: 1400
Visual Description: silty clay, more clay lumps than in 00-11.
Water Depth: 11.2 ft
Weight of Rod: 1.2 ft
Pipe Drop: 5.7 ft
Pipe Push: N/A
Refusal Depth: N/A
PVC Push Tube Sample Depth: N/A

Sample No. 00-07 Location: approx. Sta. 18+000 of GIWW realignment

Time: 1416
Visual Description: silty clay, with clay lumps
Water Depth: 11.4 ft
Weight of Rod: 2.0 ft
Pipe Drop: 3.0 ft
Pipe Push: N/A
Refusal Depth: N/A
PVC Push Tube Sample Depth: N/A, too soft to attempt

Sample No. 00-05 Location: approx. Sta. 12+000 of GIWW realignment

Time: 1437
Visual Description: silty clay, with no sand
Water Depth: 11.4 ft
Weight of Rod: 1.8 ft
Pipe Drop: 3.4 ft
Pipe Push: N/A
Refusal Depth: N/A
PVC Push Tube Sample Depth: N/A

Sample No. 00-03 Location: approx. Sta. 6+000 of GIWW realignment

Time: 1455
Visual Description: silty clay
Water Depth: 10.8 ft
Weight of Rod: 2.4 ft
Pipe Drop: 3.4 ft
Pipe Push: N/A
Refusal Depth: N/A
PVC Push Tube Sample Depth: N/A

Sample No. 00-01 Location: approx. Sta. 6+000 of GIWW realignment

Time: 1510
Visual Description: silty clay, very soft
Water Depth: 11.6 ft
Weight of Rod: 2.8 ft
Pipe Drop: 5+ ft
Pipe Push: N/A
Refusal Depth: N/A
PVC Push Tube Sample Depth: N/A

Project: GIWW Reroute - Matagorada Bay, Brazos River to Port O'Conner

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-98-D-0002 Delivery Order No. 0041

Sample/ Boring No	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
00-01	0-0.5			Clay,Gray	C H	139.8			66.0	26.0							
00-03	0-0.5			Clay,w/shell fragments,Gray	C H	126.6			69.0	25.0							
00-05	0-0.5			Clay,w/shell fragments,Gray	C H	144.7			65.0	26.0							
00-07	0-0.5			Clay,w/shell fragments,Gray	C H	155.1			66.0	26.0							
00-09	0-0.5			Clay,w/shell fragments,Gray	C H	136.7			68.0	25.0							
00-11	0-0.5			Clay,w/shell fragments,Gray	C H	144.1			61.0	25.0							
00-12A	0-0.5			Clay,w/shell fragments,Gray	C H	162.7			65.0	25.0							
00-12B	0-0.5			Clay,w/shell fragments,Gray	C H	108.0			72.0	26.0							
00-13	0-0.5			Clay,w/shell fragments,Gray	C H	161.7			73.0	27.0							
00-15	0-0.5			Clay,w/shell fragments,Gray	C H	125.3			58.0	24.0							
00-17A	0-0.5			Clay,w/shell fragments,Gray	C H	101.2			58.0	23.0							
00-17B	0-0.5			Clay,w/shell fragments,Gray	C H	65.3			51.0	20.0							
00-19	0-0.5			Sandy Clay,w/shell fragments,Gray	C L	60.0			39.0	18.0							
00-21A	0-0.5			Clayey Sand,w/shell fragments,Gray	ML-CL	42.1			25.0	18.0							
00-21B	0-0.5			Clayey Sand,w/shell fragments,Gray	ML-CL	34.8			25.0	18.0							
00-22	0-0.5			Silty Sand,Gray	S M	29.5			N P	N P							
00-23A	0-0.5			Silty Sand,Gray	S M	33.7			N P	N P							
00-23B	0.4-1.0			Silty Sand,Gray	S M				N P	N P							
00-23C	0.4-1.0			Silty Sand,Gray	S M	33.8											
00-24	0-0.5			Clay,Gray	C H	124.6			62.0	25.0							

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classifcation, M c : Moisture Content
q u : Unconfined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe, N P. None Plastic

SUMMARY OF LABORATORY TEST RESULTS

Project: Matagorada Bay, Brazos River to Port O'Conner
Contract No. DACW64-98-D-0002 Delivery Order No. 0041

Sample/ Boring No.	S#	Visual Classification	U S C	Mechanical Analysis % Passing																	
				#2	#1 1/2	#1	#1/2	#3/4	#3/8	#4	#8	#10	#16	#20	#30	#40	#50	#70	#100	#140	#200
00-01	1	Clay,Gray	C H	100	100	100	100	100	100	100	99.5	100	100	100	100	100	100	99.9	99.8	97.8	94.4
00-03	1	Clay,w/shell fragments,Gray	C H	100	100	100	100	100	100	100	100	99.5	99.3	99.2	99.1	99.0	98.9	98.7	98.3	95.3	91.1
00-05	1	Clay,w/shell fragments,Gray	C H	100	100	100	100	100	100	100	100	99.5	99.3	99.2	99.1	98.9	98.6	98.3	97.4	95.0	93.9
00-07	1	Clay,w/shell fragments,Gray	C H	100	100	100	100	100	100	100	100	99.9	99.9	99.8	99.8	99.8	99.7	99.6	99.5	98.0	96.0
00-09	1	Clay,w/shell fragments,Gray	C H	100	100	100	100	100	100	100	99.8	99.7	99.6	99.4	99.3	99.2	99.1	98.9	98.3	94.4	90.2
00-11	1	Clay,w/shell fragments,Gray	C H	100	100	100	100	100	100	100	100	100	100	100	100	100	99.9	99.8	99.7	98.6	93.6
00-12A	1	Clay,w/shell fragments,Gray	C H	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99.9	99.9	99.7	99.0
00-12B	1	Clay,w/shell fragments,Gray	C H	100	100	100	100	100	100	100	100	99.9	99.8	99.7	99.6	99.6	99.5	99.5	99.3	98.7	96.6
00-13	1	Clay,w/shell fragments,Gray	C H	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99.5	98.1	97.6	95.8
00-15	1	Clay,w/shell fragments,Gray	C H	100	100	100	100	100	100	100	100	100	99.9	99.9	99.8	99.7	99.6	99.5	99.5	98.4	95.2
00-17A	1	Clay,w/shell fragments,Gray	C H	100	100	100	100	100	100	100	99.8	99.7	99.4	99.2	99.1	99.0	98.9	98.6	97.3	97.1	95.7
00-17B	1	Clay,w/shell fragments & sand,Gray	C H	100	100	100	100	100	100	100	99.8	99.7	99.4	99.3	99.2	99.0	98.9	98.5	95.9	87.5	77.9
00-19	1	Sandy Clay,w/shell fragments,Gray	C L	100	100	100	100	100	100	100	100	100	99.9	99.9	99.9	99.8	99.8	99.7	98.0	82.4	66.7
00-21A	1	Clayey Sand,w/shell fragments,Gray	ML-C	100	100	100	100	100	100	98.7	98.1	97.6	97.4	97.2	97.0	96.8	96.0	95.4	75.1	48.0	34.3
00-21B	1	Clayey Sand,w/shell fragments,Gray	ML-C	100	100	100	100	100	100	100	98.8	98.7	98.2	97.9	97.8	97.6	97.4	96.4	80.7	52.8	37.6

S#: Sample Number, U S C: Unified Soil Classification, Sp.g: Specific Gravity