

**MATAGORDA BAY SOIL SAMPLING – GIWW REROUTE**

**Brazos to Port O'Conner (Samples taken 28 April 00)**

(All Water Levels measured below datum of Mean-Lower-Low-Water, MLLW)

**Sample No. 00-23**      Location: West end of GIWW Plan 1 Reroute

Time: 0944

Visual Description: Silty Sand with some clay

Water Depth : 10.2 ft


Weight of Rod: 0.3 ft

Pipe Drop: 0.8 ft

Pipe Push: 1.6 ft

Refusal Depth: 3.1 ft

PVC Push Tube Sample Depth: 0.4 -1.0 ft

 **Sample No. 00-22**      Location: approx. 600 ft southwest of Matagorda Ship Channel

Time: 1024

Visual Description: Clayey, Silty Sand

Water Depth: 10.8 ft

Weight of Rod: 0.2 ft

Pipe Drop: 0.9 ft

Pipe Push: 1.1 ft

Refusal Depth: 2.3 ft

PVC Push Tube Sample: None

**Sample No. 00-21**      Location: approx. 2,000 ft northeast of Matagorda Ship Channel

Time: 1044

Visual Description: Silty Sand, low plasticity

Water Depth: 11.7 ft

Weight of Rod: 0 ft

Pipe Drop: 0.9 ft

Pipe Push: 1.3 ft

Refusal Depth: 2.0 ft

PVC Push Tube Sample Depth: 0.6-0.9 ft, denser but similar to grab sample

**Sample No. 00-19**      Location: approx. 8,000 ft northeast of Matagorda Ship Channel

Time: 1115

Visual Description: Silty Clay, no grittiness. Possibly CL

Water Depth: 11.3 ft

Weight of Rod: 0.1 ft

Pipe Drop: 1.2 ft

Pipe Push: 2.5 ft

Refusal Depth: greater than 4 ft

PVC Push Tube Sample Depth: None

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 (%)	P L (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
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 Classification, 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

