Project : Pelican Island Disposal Area
Galveston, Texas
Contract No. DACW64-92-D-0005 Delivery order No. 0023

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-187

+ 21.1

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	2.75		Gray,Clay,Very stiff,w/shell fragments&calc-reous nodules	CH	33.2											
2	2 - 4	0.75		Gray&brown,Clay,Medium stiff,w/shell fragments	CH	41.0										0.25	
3	4 - 6	0.75		Gray,Clay,Medium stiff,w/ferrous stains	CH	45.5										0.25	
4	6 - 8	0.25		Light borwn&gray,Clay,Soft	CH	45.8	75.9	110.7	76	28	100.0	100.0	100.0	100.0	100.0	0.14	0.27
5	8 - 10	0.50		Gray,Clay,Medium stiff,w/ferrous stains& organic material	CH	47.4											
6	10 - 12	0.00		Gray,Clay,Very soft,w/ferrous stains	CH	46.2	73.7	107.7								0.08	0.19
7	12 - 14	0.00		Gray,Clay,Very soft,w/ferrous stains	CH	43.6										0.10	
8	14 -16	0.25		Gray & brown,Clay,Soft,w/ferrous stains	CH	44.6	74.5	107.7	74	26	100.0	100.0	99.8	99.2	99.1	0.13	0.28
9	16 - 18	0.00		Gray,Clay,Very soft	CH	40.2											
10	18 - 19.5		6	Gray,Sand,Loose,Silty	SM						99.1	98.9	97.6	89.4	38.0		
11	20 - 22	0.25		Brown,Clay,Soft,w/sand seams	CH	52.8											
12	22 - 24	0.00		Brown,Clay,Very soft,w/hydrocarbon	CH	74.8	54.6	95.5	119	41	100.0	100.0	100.0	99.4	98.9	0.13	0.25
13	24 - 25.5		10	Gray,Sand,Medium dense,Silty,w/shell fragments	SM												
14	30 - 31.5		5	Gray,Sand,Loose,Silty	SM												
15	34 - 35.5		5	Gray,Sand,Loose,Silty,w/shell fragments	SM												
16	36 - 38	0.25		Brown,Clay,Soft,w/sand seams	CH	56.8											
17	38 - 40	0.25		Brown,Clay,Soft,w/sand seams&shell fragments	CH	52.2			94	35							

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.

Project : Pelican Island Disposal Area
Galveston, Texas
Contract No. DACW64-92-D-0005 Delivery order No. 0023

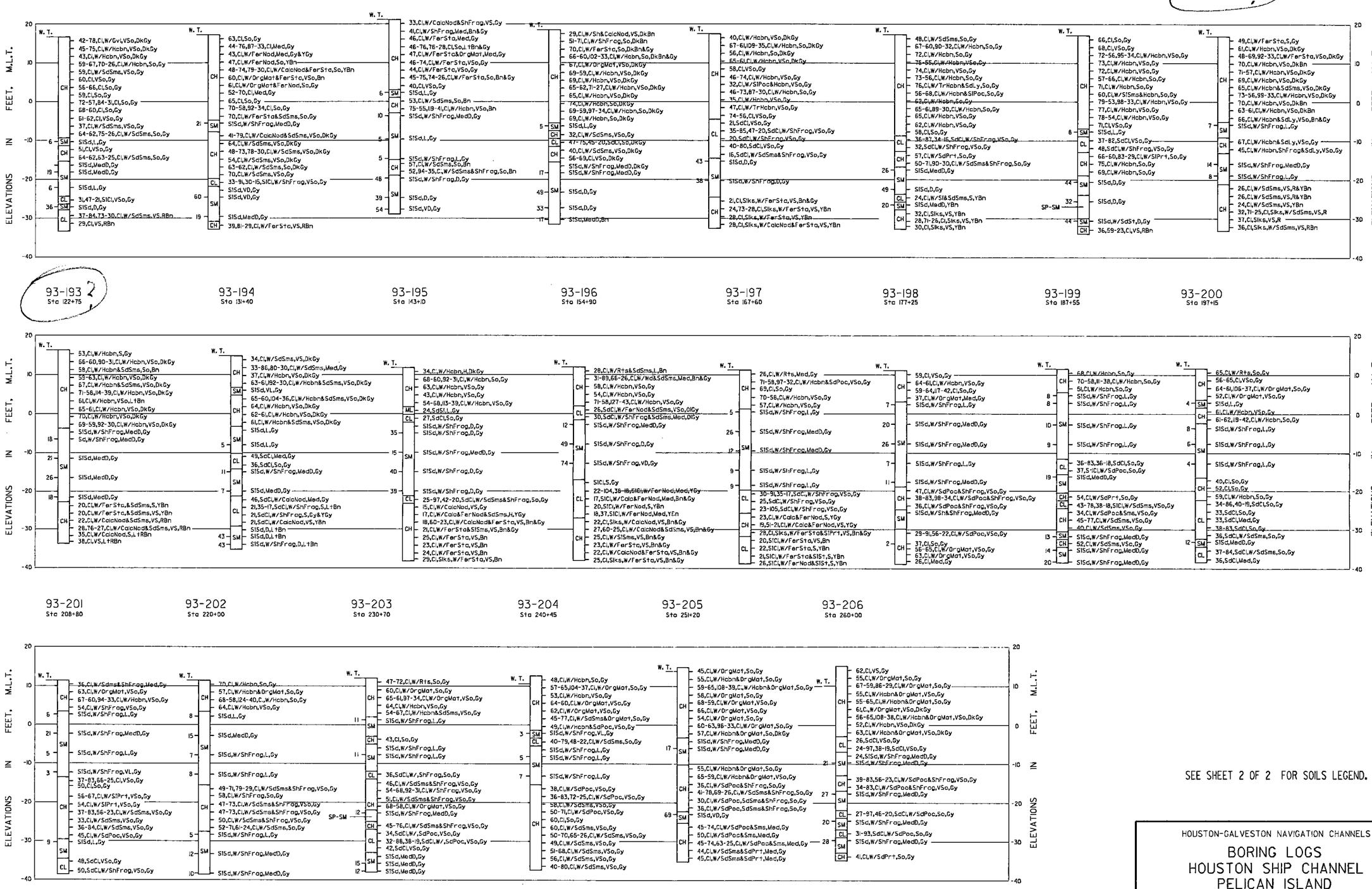
SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-187

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)
18	40 - 41.5		48	Gray,Sand,Dense,Silty,w/shell fragments	SM												
19	45 - 46.5		39	Gray,Sand,Dense,Silty	SM												
20	48.5 - 50		54	Gray,Sand,Very dense,Silty	SM												

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.



SEE SHEET 2 OF 2 FOR SOILS LEGEND.

HOUSTON-GALVESTON NAVIGATION CHANNELS

BORING LOGS
HOUSTON SHIP CHANNEL
PELICAN ISLAND

U.S. ARMY ENGINEER DISTRICT, GALVESTON, TEXAS

SHEET 1 OF 2

EXHIBIT F-

PELICAN ISLAND D.A

Galv, TX

Del ord 23

.20 tsf = 200 psf.

qu(tsf) result is given only on the Depth I show

For Design Shear Strength

Boring No	Depth	V/So to So		Med	Stiff to V/Stiff
		V/So (Psf)	So (Psf)	(Psf)	(Psf)
98-185	(TOP 21 16.7)				
EL. 13.7	2'-4'	200			
9.7	6'-8'		340		
3.7	12'-14'		340		
-.3	16'-18'		320		
-4.3	20-22'	210			
98-186	EL. 17.2 (17.2)				
EL. 8.2	8'-10'		400		
2.7	14'-16'			610	
-8.8	25-27'	210			
-12.8	29-31'	150			
-16.8	33-35			450	
18.8	35-37	240			
98-187	(21.1)				
+14'	6'-8'		270		
10'	10'-12'	190			
6'	14'-16'		280		
-1'	22'-24'	250			
98-188	(EL. 18.5)				
15.5'	2'-4'		340		
11.5	6'-8'		270		
7.5'	10-12	100			
3.5'	14-16	210			
-2.5	20-22		260		
-10.5	28-30		320		
-14.5	32-34	170			

PELICAN ISLAND D.A

Galv, TX

Del ord 23

.20 tsf = 200 psf.

qu(tsf) result is given only on the Depth I show

For Design Shear Strength

Boring No	Depth	V/So to So		Med	Stiff to V/Stiff
		V/So (Psf)	So (Psf)	(Psf)	(Psf)
98-185	(TOP 21 16.7)				
EL. 13.7	2'-4'	200			
9.7	6'-8'		340		
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7.5'	10-12	100			
3.5'	14-16	210			
-2.5	20-22		260		
-10.5	28-30		320		
-14.5	32-34	170			