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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-188

+18.5

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	2.00		Dark brown,Clay,Very stif,w/shell&calcareous nodules	CH	29.3										1.00	
2	2 - 4	0.25		Dark brown,Clay,Soft,w/shell fragments	CH	50.7	71.1	107.2								0.16	0.34
3	4 - 6	0.25		Dark brown&gray,Clay,Soft,w/ferrous stains	CH	69.8										0.16	
4	6 - 8	0.25		Dark brown&gray,Clay,Soft,w/hydrocarbon	CH	66.4	60.4	100.5	102	33	100.0	100.0	100.0	99.9	97.9	0.14	0.27
5	8 - 10	0.00		Dark gray,Clay,Very soft,w/organic material	CH	66.7										0.08	
6	10 - 12	0.00		Dark gray,Clay,Very soft,w/hydrocarbon	CH	68.5	59.2	99.7								0.06	0.10
7	12 - 14	0.00		Dark gray,Clay,Very soft,w/hydrocarbon	CH	69.1										0.07	
8	14 -16	0.00		Dark gray,Clay,Very soft,w/hydrocarbon	CH	64.9	62.1	102.5	71	27	100.0	100.0	100.0	99.7	97.0	0.10	0.21
9	16 - 17.5	0.00	WOP	Dark gray,Clay,Very soft,w/hydrocarbon	CH	64.8											
10	18 - 20	0.25		Dark gray,Clay,Soft,w/hydrocarbon	CH	74.3										0.15	
11	20 - 22	0.25		Dark gray,Clay,Soft,w/hydrocarbon	CH	68.8	58.7	99.2	97	34	100.0	100.0	99.9	99.9	98.9	0.14	0.26
12	22 - 24	0.25		Dark gray,Clay,Soft,w/hydrocarbon	CH	68.9										0.13	
13	24 - 25.5		5	Gray,Sand,Loose,Silty	SM						100.0	99.8	99.3	91.6	36.0		
14	26 - 28	0.00		Gray,Clay,Very soft,w/sand seams	CH	31.8										0.09	
15	28 - 30	0.25		Dark gray,Clay,Soft,Sandy	CH	47.0	75.0	110.3	45	20	100.0	99.9	99.8	99.1	81.6	0.15	0.32
16	30 - 32	0.00		Dark gray,Clay,Very soft,w/sand seams	CH	40.4										0.08	
17	32 - 34	0.00		Dark gray,Clay,Very soft	CH	56.1	68.5	106.9								0.08	0.17

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

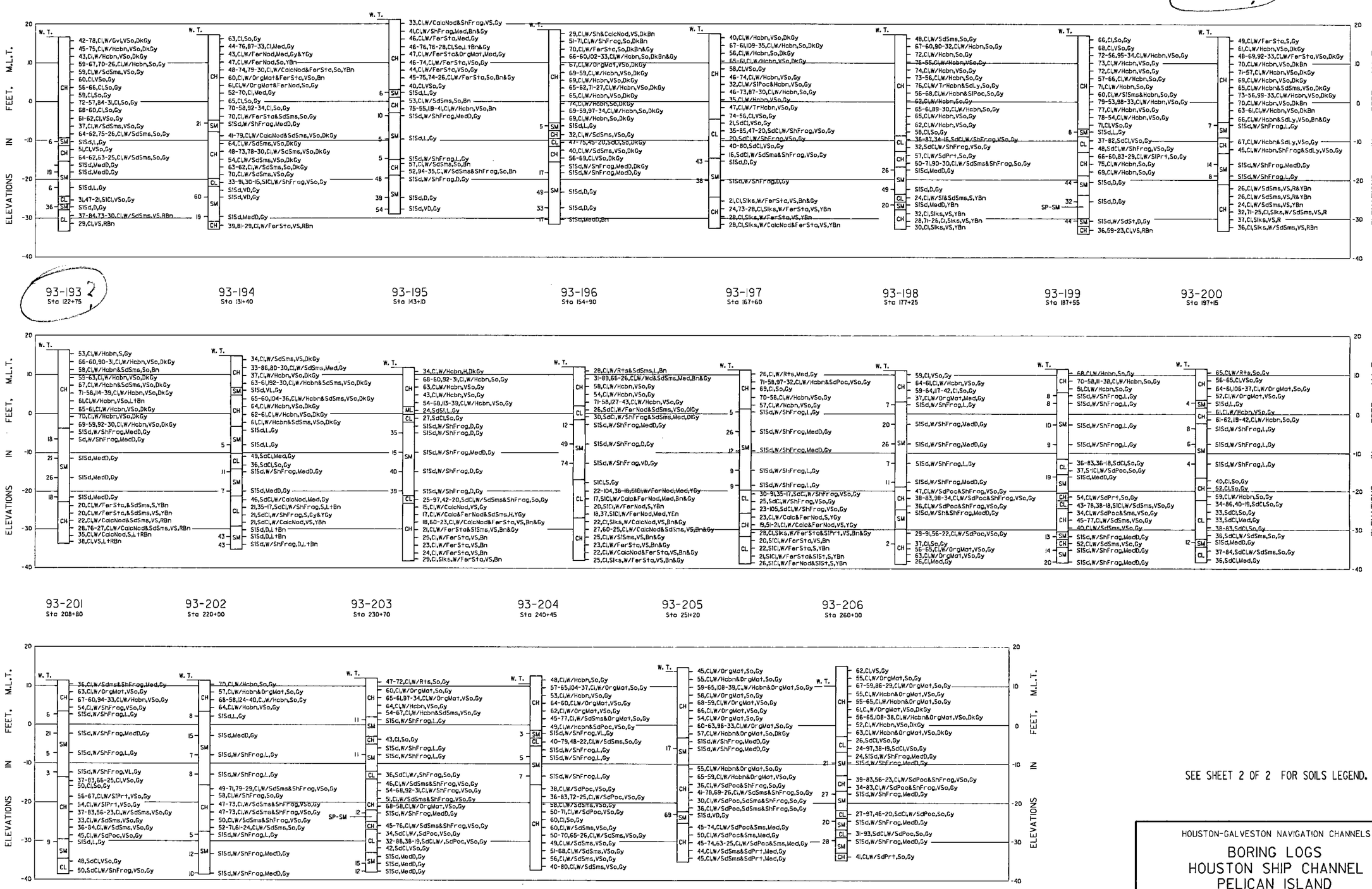
SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-188

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	34 - 36			Dark gray,Sand,Medium dense,Silty,w/shell fragments	SM												
19	36 - 37.5		17	Gray,Sand,Medium dense,Silty,w/shell fragments	SM												
20	41 - 42.5		49	Gray,Sand,Dense,Silty	SM												
21	45 - 46.5		33	Gray,Sand,Dense,Silty	SM												
22	48.5 - 50		17	Brown,Sand,Medium 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)
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3.5'	14-16	210			
-2.5	20-22		260		
-10.5	28-30		320		
-14.5	32-34	170			