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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-202

226+00
1146

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	0.25		Gray,Clay,Soft,w/hydrocarbon	CH	70.0										0.13	
2	2 - 4	0.25		Gray,Clay,Soft,w/organic material&hydrocarbon	CH	56.9										0.13	
3	4 - 6	0.25		Gray,Clay,Soft,w/hydrocarbon	CH	68.2	57.9	97.4	124	40	100.0	100.0	99.7	98.8	97.8	0.13	0.25
4	6 - 8	0.00		Gray,Clay,Very soft,w/hydrocarbon	CH	64.4										0.09	
5	8.5 - 10		8	Gray,Sand,Loose,Silty	SM												
6	13.5 - 15		15	Gray,Sand,Medium dense,Silty	SM												
7	18.5 - 20		7	Gray,Sand,Loose,Silty,w/shell fragments	SM												
8	23.5 - 25		8	Gray,Sand,Loose,Silty,w/shell fragments	SM												
9	27 - 29	0.00		Gray,Clay,Very soft,w/sand seams&shell fragments	CH	49.4	70.8	105.7	79	29	100.0	99.4	98.0	97.5	97.0	0.08	0.16
10	29 - 30.5	0.25	2	Gray,Clay,Soft,w/shell fragments	CH	57.7											
11	31 - 33	0.00		Gray,Clay,Very soft,w/sand seams&shell frgments	CH	47.1	72.7	106.9								0.11	0.21
12	33 - 35	0.00		Gray,Clay,Very soft,w/sand seams&shell fragments	CH	47.0	72.5	106.6								0.10	0.20
13	35 - 37	0.00		Gray,Clay,Very soft,w/sand seams&shell frgments	CH	49.9										0.09	
14	37 - 39	0.25		Gray,Clay,Soft,w/sand seams	CH	52.0	71.0	107.9	61	24	100.0	100.0	99.4	98.9	97.8	0.13	0.26
15	39 - 40.5		5	Gray,Sand,Loose,Silty,w/shell fragments	SM												
16	44 - 45.5		12	Gray,Sand,Medium dense,Silty,w/shell fragments	SM												
17	49 - 50.5		10	Gray,Sand,Medium dense,Silty,w/shell fragments	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.

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

SUMMARY OF LABORATORY TEST RESULTS

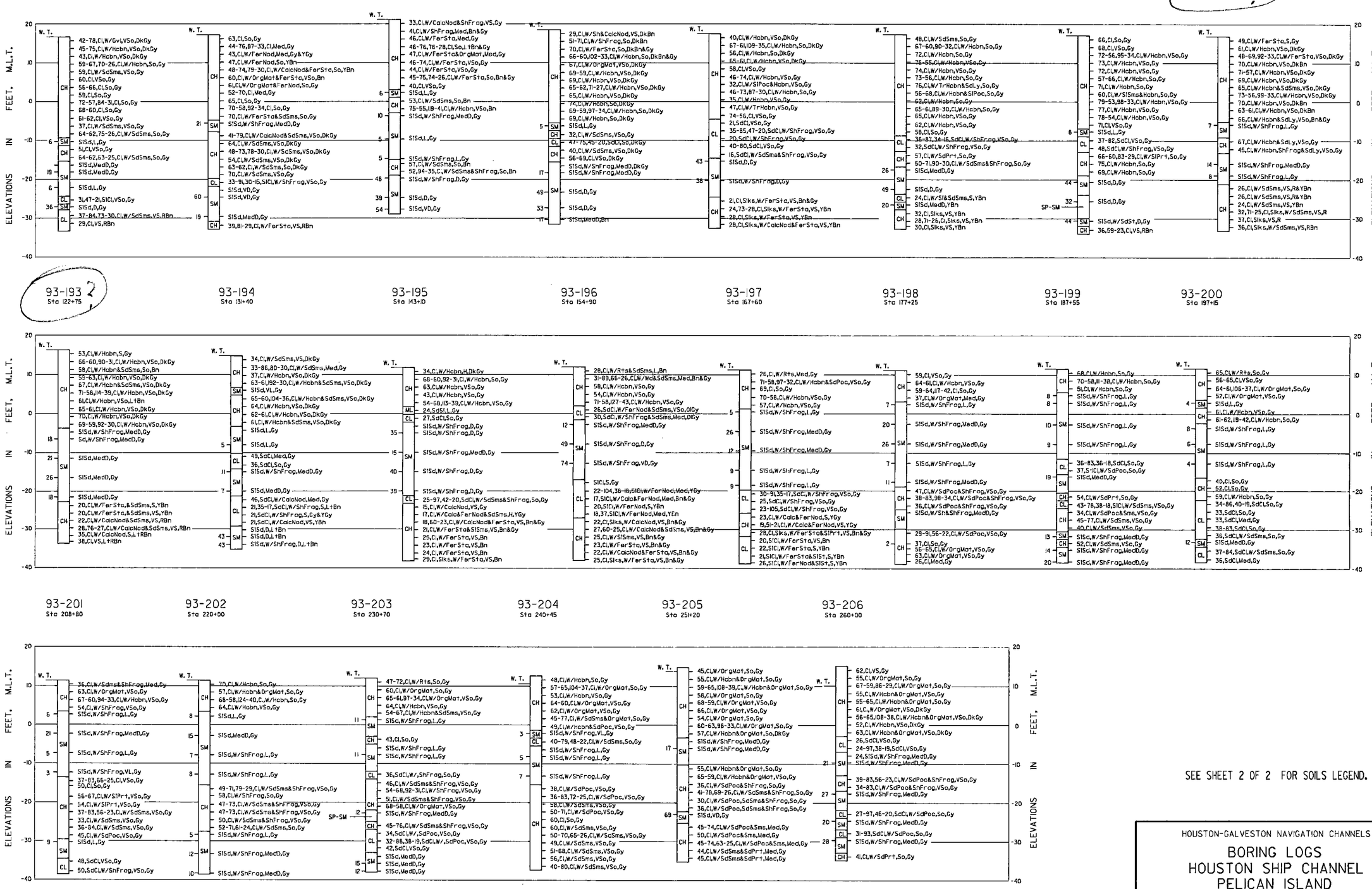
Boring No. 93-203

230+78
1304

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	0.25		Gray,Clay,Soft,w/roots	CH	46.6	72.2	105.9								0.13	0.25
2	2 - 4	0.25		Gray,Clay,Soft,w/organic material	CH	60.1										0.13	
3	4 - 6	0.00		Gray,Clay,Very soft,w/organic material	CH	64.7	60.8	100.1	97	34	100.0	100.0	99.6	98.9	98.5	0.08	0.16
4	6 - 8	0.00		Gray,Clay,Very soft,w/hydrocarbon	CH	63.5										0.08	
5	8 - 10	0.00		Gray,Clay,Very soft,w/sand seams & hydrocarbon	CH	54.0	66.9	103.1								0.09	0.19
6	10 - 11.5		11	Gray,Sand,Loose,Silty,w/shell fragments	SM												
7	15 - 16.5	0.25	2	Gray,Clay,Soft	CH	43.3											
8	17 - 19			Gray,Sand,Loose,Silty,w/shell frgments	SM												
9	19 - 20.5		11	Gray,Sand,Loose,Silty,w/shell frgments	SM												
10	24 - 25.5	0.25	8	Gray,Clay,Soft,Sandy,w/shell fragments	CL	35.9											
11	26 - 28	0.00		Gray,Clay,Very soft,w/sand seams&shell fragments	CH	45.5										0.09	
12	28 - 30	0.00		Gray,Clay,Very soft,w/shell fragments	CH	54.3	67.9	104.8	92	31	100.0	99.1	98.7	96.6	96.5	0.07	0.14
13	30 - 32	0.00		Gray,Clay,Very soft,w/sand seams&shell fragments	CH	51.2										0.07	
14	32 - 34	0.00		Gray,Clay,Very soft,w/organic materials	CH	68.0	58.4	98.1								0.09	0.17
16	34 - 35.5		14	Gray,Sand,Medium dense,Silty,w/shell fragments	SP-SM						97.8*	97.0*	94.5	64.6	11.8		
17	37 - 39	0.00		Gray,Clay,Very soft,w/sand seams&shell fragments	CH	45.2	75.8	110.1								0.07	
18	39 - 41	0.00		Gray,Clay,Very soft,Sandy,w/sand pockets	CL	34.1										0.08	

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
* : Material Retained are shell fragments

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-

Boring No. EL.	Depth	Top EL.	V/So	So	ED.	ST.
93-199: +8.5'	2'-4'	(11.52)		330		
-12.5	23-25'			290		
-23.5	34'-36'		170			
-27.5	38'-40'		180			
93-200: 9'	2'-4'	(11.65)	210			
7'	4'-6'			290		
-1'	12'-14'			290		
-23'	34'-36'			310		
-29'	40'-42'			290		
-35	46'-48'			270		
93-201: +6.5'	4-6'	(11.45	160			
-14.5	25'-27'		150			
-22.5	33-35'		180			
-26.5	37'-39'		200			
3-202 6.5	4'-6'	(11.46)		250		
-16.5	27-29'		160			
-20.5	31'-33'		210			
-22.5	33-35'		200			
-26.5	37'-39'			260		
93-203: 7'	4'-6	(12.04)	160			
3'	8'-10'		190			
-17'	28'-30'		140			
-21	32'-34'		170			