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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-192

+ 169

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	1.25		Gray,Clay,Stiff,w/ferrous stains	CH	49.1										0.50	
2	2 - 4	0.00		Dark gray,Clay,Very soft,w/hydrocarbon	CH	60.8										0.04	
3	4 - 6	0.00		Dark gray,Clay,Very soft,w/ferrous stain	CH	48.7	69.2	102.9	92	33	100.0	100.0	99.6	99.0	98.5	0.10	0.21
4	6 - 8	0.00		Dark brown,Clay,Very soft,w.hydrocarbon	CH	70.4										0.08	
5	8 - 10	0.00		Dark gray,Clay,Very soft,w/hydrocarbon	CH	70.9	56.9	97.1								0.08	0.21
6	10 - 12	0.00		Dark gray,Clay,Very soft,w/hydrocarbon	CH	68.8										0.07	
7	12 - 14	0.00		Gray&brown,Clay,Very soft,w/hydrocarbon&sand seams	CH	64.6										0.08	
8	14 -16	0.00		Dark gray,Clay,Very soft,w/hydrocarbon	CH	73.4	55.8	96.7	99	33	100.0	100.0	100.0	100.0	100.0	0.06	0.12
9	16 - 18	0.00		Dark brown,Clay,Very soft,w/hydrocarbon	CH	69.9										0.07	
10	18 - 20	0.00		Dark brown,Clay,Very soft,w/hydrocarbon	CH	63.2	60.9	99.4								0.06	0.12
11	20 - 22	0.00		Gray&brown,Clay,Very soft,w/hydrocarbon&sand layer	CH	66.3										0.06	
12	22 - 23.5		7	Gray,Sand,Loose,Silt,w/shell fragments	SM						99.8	99.6	99.2	90.3	44.7		
13	26 - 28	0.00		Gray,Clay,Very soft,w/hydrocarbon&sand seams	CH	66.3										0.07	
14	28 - 30	0.00		Gray,Clay,Very soft,w/hydrocarbon, shell fragments&sand layer	CH	44.6											
15	30 - 31.5		14	Gray,Sand,Medium dense,Silty,w/shell fragments	SM												
16	35 - 36.5		8	Gray,Sand.Loose,Silty,w/shell fragments	SM												
17	38 - 40	2.25		Red&yellowish brown,Clay,Very stiff,w/sand seams	CH	26.3											

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

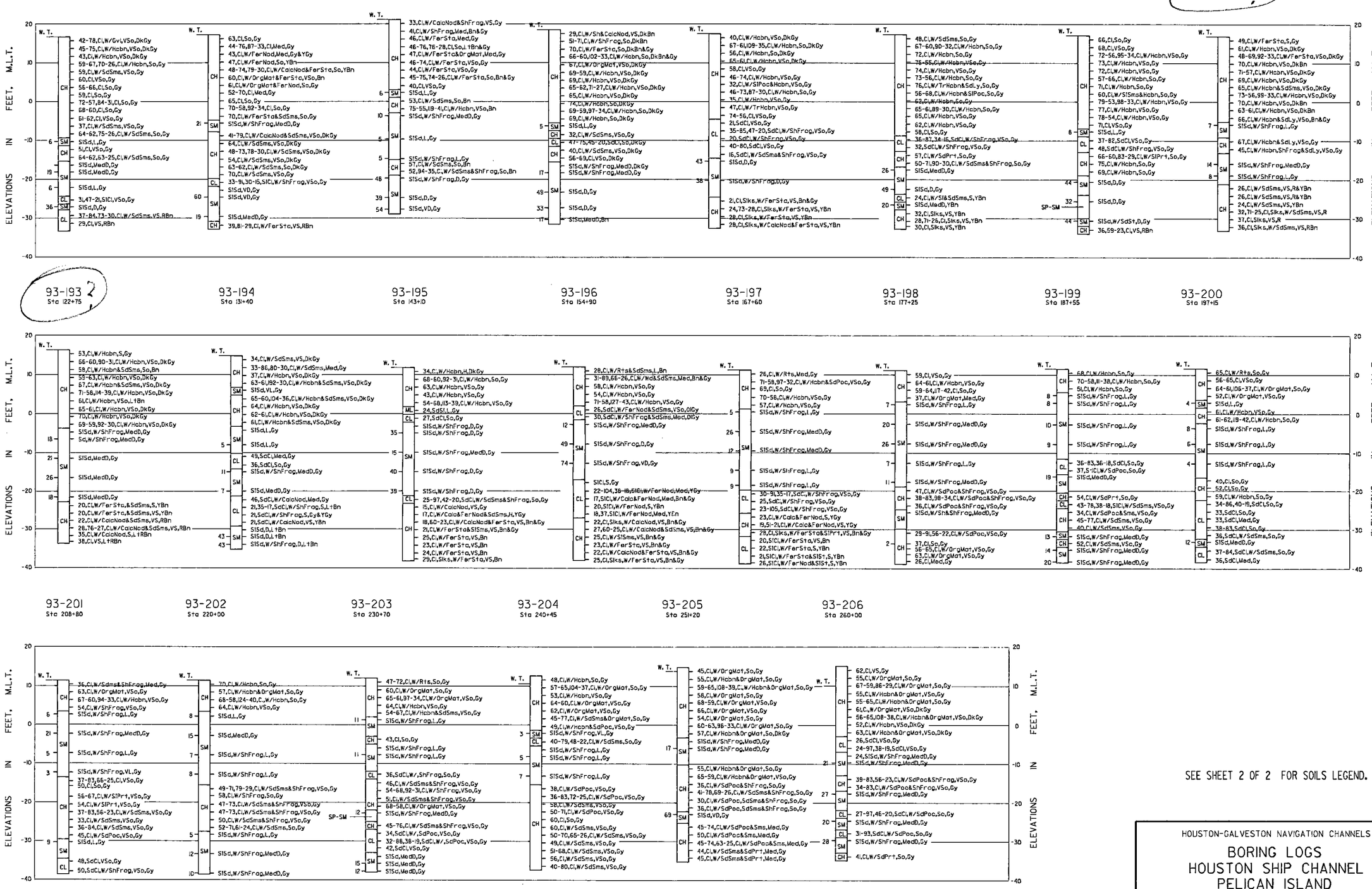
SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-192

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 - 42	2.50		Red&yellowish brown,Clay,Very stiff,w/sand seams	CH	26.3											
19	42 - 44	2.50		Yellowish brown,Clay,Very stiff, w/sand seams	CH	24.1											
20	44 - 46	2.75		Red,Clay,Very stiff,w/sand seams,Slickensided	CH	31.9			71	25							
21	46 - 48	2.25		Red,Clay,Very stiff,Slickensided	CH	36.9											
22	48 - 50	2.50		Redish brown,Clay,Very stiff,w/sand seams, Slickensided	CH	35.7											

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-

Boring No.	Depth (Top) EL.	(V/SO) psf	(SO) psf	MED psf	ST. to V/ST. psf
EL.					
93-189: 14.5	2'-4' (17.5) EL		260		
10.5'	6'-8'	120			
6.5'	10'-12'	180			
2.5'	14'-16'		320		
-3.5	20'-22'	220			
-7.5	24-26'	170			
-11.5	28-30	190			
93-190: 14	2'-4' (17.3)		310		
10'	6'-8'	130			
6'	10'-12'		290		
2'	14'-16'		260		
-2	18'-20'		260		
-10	26'-28'	140			
-16	32'-34'		290		
93-191: 12'	4'-6' (17.1) EL	220			
6'	10'-12'		280		
0'	16-18'	140			
-4	20-22'	140			
-10	26-28	130			
-15	30-32		300		
93-192: 12'	4-6' (16.9)	210			
8'	8'-10'	210			
2'	14'-16'	120			
-2'	18-20'	120			