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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-194

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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	3.75		Dark gray,Clay,Very stiff,w/sand seams	CH	33.9										1.75	
2	2 - 4	0.75		Gray,Clay,Medium stiff,w/sand seams	CH	33.3	85.7	114.2	80	30	100.0	100.0	100.0	99.9	99.4	0.30	0.56
3	4 - 6	0.00		Dark gray, Clay,Very soft,w/hydrocarbon	CH	37.1										0.06	
4	6 - 8	0.00		Dark gray,Clay,Very soft,w/hydrocarbon&sand seams	CH	62.9	61.1	99.4	92	30	100.0	100.0	99.4	99.2	98.6	0.08	0.15
5	8 - 9.5		W.O.P	Gray,Sand,Very loose,Silty	SM												
6	10 - 12	0.00		Dark gray,Clay,Very soft,w/hydrocarbon&sand seams	CH	64.7	59.6	98.2	104	36	100.0	100.0	100.0	99.5	99.0	0.10	0.22
7	12 - 14	0.00		Dark gray,Clay,Very soft,w/hydrocarbon	CH	63.5										0.08	
8	14 -16	0.00		Dark gray,Clay,Very soft,w/hydrocarbon	CH	62.8	61.0	99.0								0.08	0.13
9	16 - 18	0.00		Dark gray,Clay,Very soft,w/hydrocarbon&sand seams	CH	61.1										0.09	
10	18 - 20			Gray,Sand,Loose,Silty	SM						100.0	100.0	100.0	85.3	22.3		
11	20 - 24.5		5	Gray,Sand,Loose,Silty	SM												
12	25 - 26.5	0.75	7	Gray,Clay,Medium stiff,Sandy	CL	49.3											
13	27 - 29	0.25		Gray,Clay,Soft,Sandy	CL	36.0										0.14	
14	29 - 30.5		11	Gray,Sand,Medium dense,Silty,w/shell fragments	SM						99.7	98.9	98.0	91.1	34.0		
15	34 - 35.5		7	Gray,Sand,Medium dense,Silty	SM												
16	36 - 38	0.50		Gray,Clay,Medium stiff,Sandy,w/calcareous nodules	CL	45.9											
17	38 - 40	1.50		Light brown,Clay,Stiff,Sandy,w/shell fragments	CL	20.6			35	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

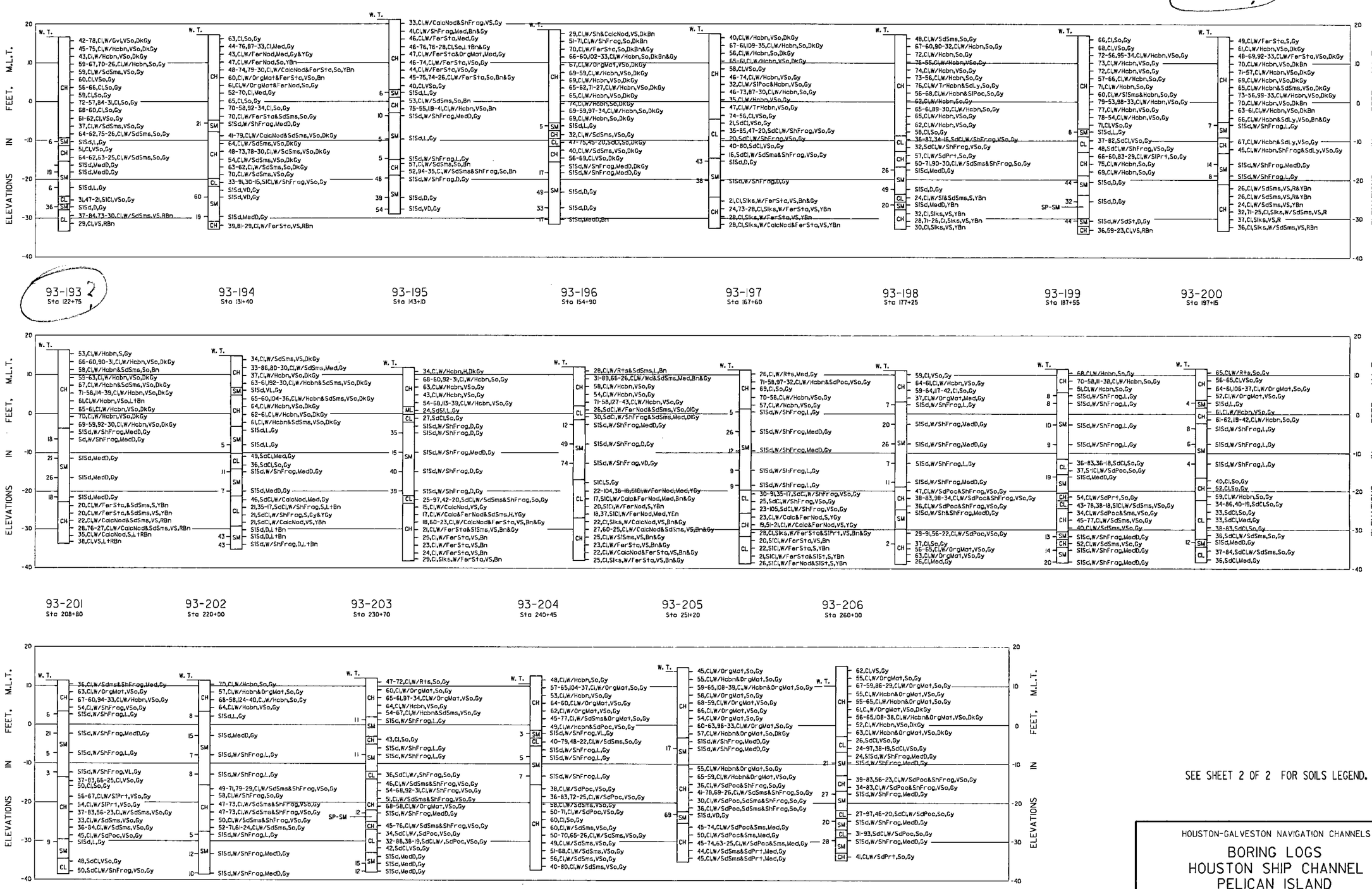
SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-194

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	1.25		Gray&yellowish brown,Clay,Stiff,Sandy,w/shell fragments	CL	20.8											
19	42 - 44	2.75		Yellowish brown,Clay,Very stiff,Sandy,w/ calcareous nodules	CL	21.2											
20	44 - 46			Light brown,Sand,Dense,Silty	SM												
21	46 - 47.5		43	Light brown,Sand,Dense,Silty	SM												
22	48.5 - 50		43	Light brown,Sand,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.



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-

Bor. No EL	Depth	Top EL.	V/SO.	SO.	MED	ST.	All in (Psf.)
93-193: 13'	2'-4'	(16.3)	190				
9'	6'-8'		140				
5'	10-12'		110				
1'	14-16'		180				
-3'	18-20'		130				
93-194: 12'	2'-4'	(14.8)			560		
8'	6-8'		150				
4'	10-12'		220				
0'	14-16'		130				
93-195: 9'	2-4'	(11.83)		270			
3'	8-10'		180				
-23'	33'-35			280			
93-196: 9'	2-4'	(11.98) 12			700		
3'	8-10'		120				
-20	31-33				550		
93-197: 8'	2'-4'	(11.23)	150				
4'	6'-8'		200				
-21	31'-33'		150				
-25	35'-37'		180				
93-198: 8'	2'-4'	(11.13)	160				
6'	4'-6'			420			
-22	32'-34'		270				
-31	41'-43'		230				
-35	45'-47'		230				

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11
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