Project: Sabine Lake North Disposal Area No.11
Near Port Arthur , Texas
Contract No. DACW64-93-D-0005 Delivery Order No. 0014

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 94-70

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing					Torvane Shear Strength (tsf)	q u (tsf)
											#4	#10	#40	#100	#200		
1	0-1.5		3	Gray,Sand,Very loose,Silty,w/clay seams	S M												
2	5-6.5		3	Gray,Sand,Very loose,Silty,w/clay seams	S M												
3	10-11.5		3	Gray,Sand,Very loose,Silty,w/clay seams	S M												
5	13-15	1.75		Yellowish gray,Clay,Stiff,Sandy,w/ferrous stains	C L	23.8	103.0	127.5									
6	15-17	2.50		Yellowish gray,Clay,Very stiff,Sandy,w/ferrous stains	C L	25.0											
7	17-19	1.75		Yellowish gray,Clay,Stiff,Sandy,w/ferrous stains	C L	23.9	102.7	127.2	47	21	100.0	99.8	98.1	81.2	70.6		1.39
8	19-21	1.75		Yellowish gray,Clay,Stiff,Sandy,w/ferrous stains	C L	21.7											
9	21-23	2.00		Yellowish gray,Clay,Very stiff,Silty	C L	23.9											
10	23.5-25	0.25	3	Yellowish gray,Clay,Soft	C H												

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classifcation, M c : Moisture Content
q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe

JOB NO. 14G727-14 DATE 5/16/94

PROJECT Sabine Lake North Disposal Area
No. 11

AREA Near Port Arthur, Texas

BORING NO. 94-70 SAMPLE NO. 7 DEPTH 17-19 ft

SPECIMEN NO. 1

CLASSIFICATION
Yellowish gray,Clay,Stiff,Sandy,w/ferrous stains

Tare No.	P4	Height	5.595 in.
Tare plus Wet Specimen	630.91 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	517.65 gm	Initial Area	6.290 sq in.
Water Weight	113.26 gm	Volume	35.194 cu in.
Tare Weight	42.81 gm	Volume of Solids	cu in.
Wet Specimen	1173.29 gm	Void Ratio	
Dry Specimen	947.33 gm	Saturation	%
Water Content	23.85 %	Dry Density	102.5 lb/cu ft
Specific Gravity of Solids			

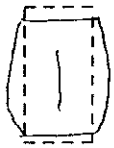
LL = 47 PL = 21 PI = 26

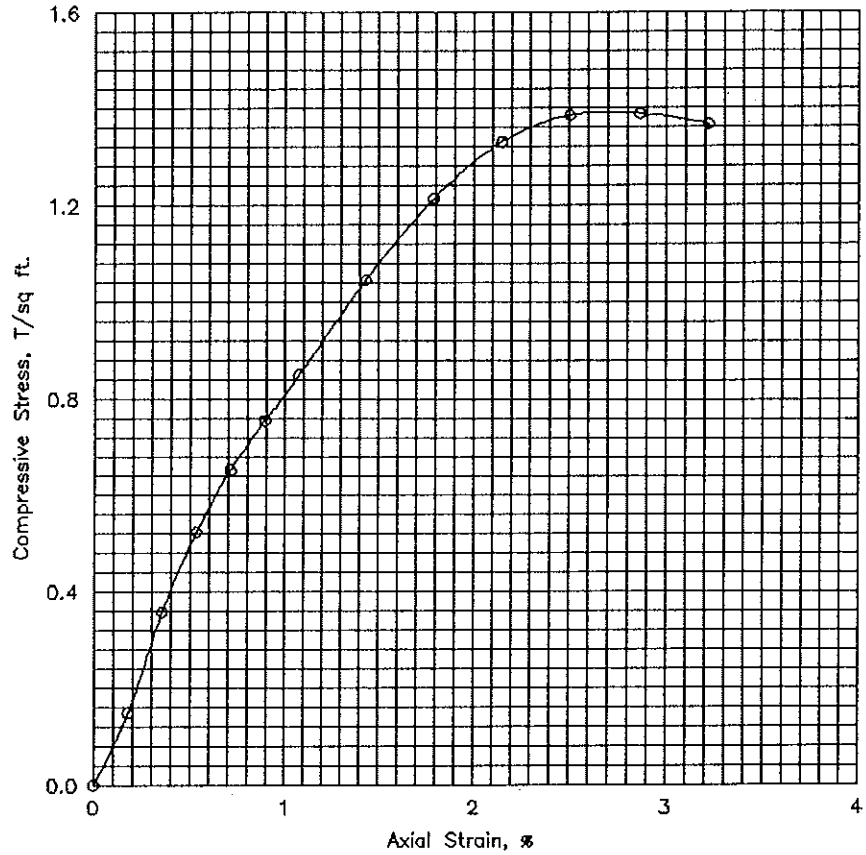
Proving Ring No. 10170
Proving Ring Constant, K = .766 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	17.0	13.0	.002	6.30	.149
.3	20.	.020	41.0	31.4	.004	6.31	.358
.5	30.	.030	60.0	46.0	.005	6.32	.523
.7	40.	.040	75.0	57.4	.007	6.34	.653
.9	50.	.050	87.0	66.6	.009	6.35	.756
1.0	60.	.060	98.0	75.1	.011	6.36	.850
1.4	80.	.080	121.0	92.7	.014	6.38	1.046
1.7	100.	.100	141.0	108.0	.018	6.40	1.214
2.0	120.	.120	155.0	118.7	.021	6.43	1.330
2.3	140.	.140	162.0	124.1	.025	6.45	1.385
2.7	160.	.160	163.0	124.9	.029	6.48	1.388
3.0	180.	.180	161.0	123.3	.032	6.50	1.366

Job No. 14G727-14

Failure Sketches





☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	23.9 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	102.5			
Time to failure, min		t_f	2.67			
Unconfined compressive strength, T/sq ft		q_u	1.39			
Undrained shear strength, T/sq ft		S_u	.69			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Yellowish gray,Clay,Stiff,Sandy,w/ferrous stains

LL	47	PL	21	PI	26	G_s	

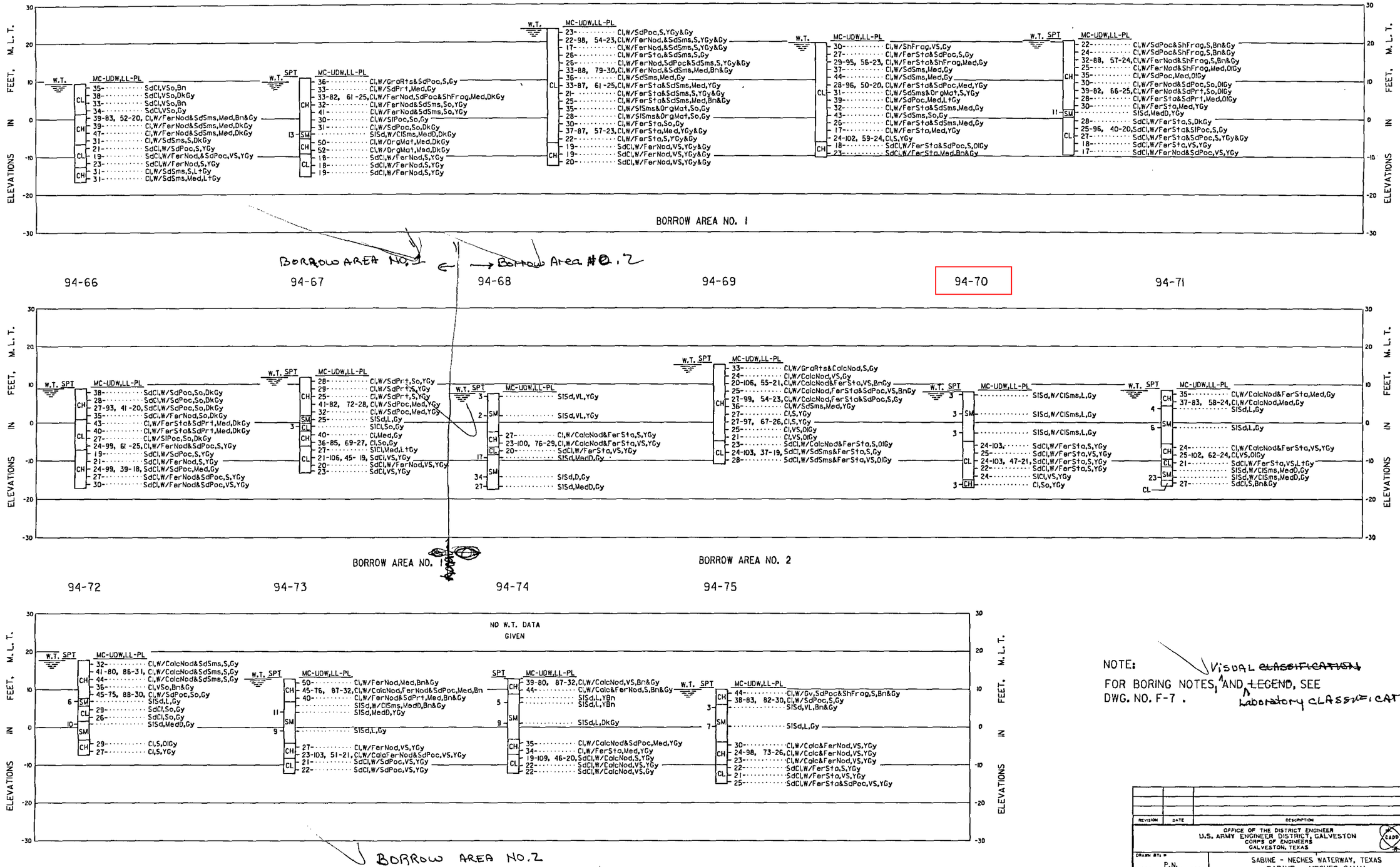
Remarks

Project Sabine Lake North Disposal Area	
No. 11	
Area Near Port Arthur, Texas	
Boring No. 94-70	Sample No. 7
Depth El 17-19 ft	Date 5/16/94
UNCONFINED COMPRESSION TEST REPORT	

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.



NOTE:
FOR BORING NOTES, VISUAL ~~CLASSIFICATION~~ AND ~~LEGEND~~ Laboratory CLASSIFICATION, SEE DWG. NO. F-7 .

REVISION	DATE	DESCRIPTION	BY

OFFICE OF THE DISTRICT ENGINEER
U.S. ARMY ENGINEER DISTRICT, GALVESTON
CORPS OF ENGINEERS
GALVESTON, TEXAS

DRAWN BY: P.N.
DESIGNED BY: G.M.
CHECKED BY: G.M./L.A.A.
SUBMITTED BY:
CHIEF, GEOTECH & SURVEYS SECTION
APPROVED:
CHIEF, DESIGN BRANCH
APPROVED:
CHIEF, ENGINEERING DIVISION

SABINE - NECHES WATERWAY, TEXAS
SABINE - NECHES CANAL
REHABILITATION OF PLACEMENT AREA NO. 11

BORING LOGS
BORROW AREAS NOS. 1 & 2

DATE: JULY 1995
1" = AS REQUIRED BY ENGINEER (CIRCULAR NO. 80-1-952)
SCALE: AS SHOWN
SPEC. DATE:

Prepared under the direction of
Robert B. Gatlin, Col., C.E.,
District Engineer

DRAWING NUMBER
F-5

SHEET 27 OF 32 FILE NO. SN 103-338