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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 94-64

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 #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
1	0 - 2	2.00		Gray,Clay,Very stiff,w/shell fragments	C H	29.7											
2	2 - 4	1.25		Gray,Clay,Stiff,w/ferrous stains and sand pockets	C H	27.4											
3	4 - 6	0.75		Gray,Clay,Medium stiff,w/ferrous stains and shell fragments	C H	28.8	94.5	121.7	56	23	100.0	99.9	99.2	97.8	95.8		0.89
4	6 - 8	0.75		Gray,Clay,Medium stiff,w/sand seams	C H	36.7											
5	8 - 10	0.50		Gray,Clay,Medium stiff,w/sand seams	C H	44.4											
6	10 - 12	0.50		Yellowish gray,Clay,Medium stiff,w/ferrous stains and sand pockets	C H	27.7	96.2	122.9	50	20	100.0	99.8	98.9	92.7	90.6		
7	12 - 14	1.00		Yellowish gray,Clay,Stiff,w/sand seams and organic material	C H	31.0											
8	14 - 16	0.75		Light gray,Clay,Medium stiff,w/sand pockets	C H	39.3											
9	16 - 18	0.50		Gray,Clay,Medium stiff,w/ferrous stains and sand seams	C H	32.0											
10	18 - 20	0.25		Gray,Clay,Soft,w/sand seams	C H	43.3											
11	20 - 22	0.75		Gray,Clay,Medium stiff,w/ferrous stains and sand seams	C H	26.1											
12	22 - 24	0.75		Yellowish gray,Clay,Medium stiff,w/ferrous stains	C H	17.4											
13	24 - 26	1.25		Yellowish gray,Clay,Stiff	C H	23.5	101.7	125.5	59	24	100.0	100.0	99.0	97.9	94.6		
14	26 - 28	1.50		Olive gray,Clay,Stiff,Sandy,w/ferrous stains and sand pockets	C L	17.6											
15	28 - 30	0.50		Brown&gray,Clay,Medium stiff,Sandy,w/ ferrous stains	C L	23.3											

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 5/11/94

PROJECT Sabine Lake North Disposal Area
No. 11

AREA Near Port Arthur, Texas

BORING NO. 94-64 SAMPLE NO. 3 DEPTH 4-6 ft

SPECIMEN NO. 1

CLASSIFICATION
Gray,Clay,Medium stiff,w/ferrous stains and shell fragments

Tare No.	W-9	Height	5.595 in.
Tare plus Wet Specimen	703.65 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	555.88 gm	Initial Area	6.290 sq in.
Water Weight	147.77 gm	Volume	35.194 cu in.
Tare Weight	42.33 gm	Volume of Solids	cu in.
Wet Specimen	1123.80 gm	Void Ratio	
Dry Specimen	872.69 gm	Saturation	%
Water Content	28.77 %	Dry Density	94.5 lb/cu ft
Specific Gravity of Solids			

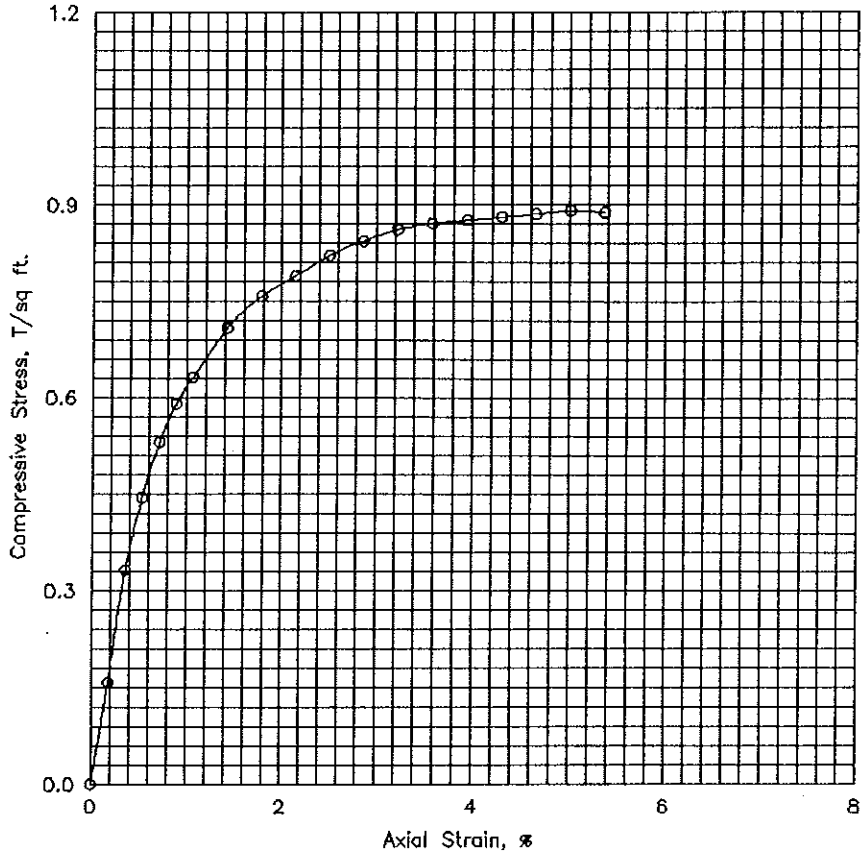
LL = 56 PL = 23 PI = 33

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	18.0	13.8	.002	6.30	.158
.4	20.	.020	38.0	29.1	.004	6.31	.332
.6	30.	.030	51.0	39.1	.005	6.32	.445
.7	40.	.040	61.0	46.7	.007	6.34	.531
.9	50.	.050	68.0	52.1	.009	6.35	.591
1.1	60.	.060	73.0	55.9	.011	6.36	.633
1.4	80.	.080	82.0	62.8	.014	6.38	.709
1.7	100.	.100	88.0	67.4	.018	6.40	.758
2.1	120.	.120	92.0	70.5	.021	6.43	.789
2.4	140.	.140	96.0	73.5	.025	6.45	.821
2.8	160.	.160	99.0	75.8	.029	6.48	.843
3.1	180.	.180	101.5	77.7	.032	6.50	.861
3.4	200.	.200	103.0	78.9	.036	6.52	.871
3.7	220.	.220	104.0	79.7	.039	6.55	.876
4.0	240.	.240	105.0	80.4	.043	6.57	.881
4.3	260.	.260	106.0	81.2	.046	6.60	.886
4.7	280.	.280	107.0	82.0	.050	6.62	.891
5.0	300.	.300	107.0	82.0	.054	6.65	.888

Job No. 14G727-14

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.			1			
Type of Specimen			Undisturbed			
Initial	Water content	w_0	28.8 %	%	%	%
	Void ratio	e_0				
	Saturation	S_0	%	%	%	%
	Dry density, lb/cu ft	γ_d	94.5			
Time to failure, min		t_f	4.67			
Unconfined compressive strength, T/sq ft		q_u	.89			
Undrained shear strength, T/sq ft		S_u	.45			
Sensitivity ratio		S_t				
Initial specimen diameter, in.		D_0	2.830			
Initial specimen height, in.		H_0	5.595			

Classification Gray,Clay,Medium stiff,w/ferrous stains and shell fragments

LL	56	PL	23	PI	33	G_s

Remarks

Project Sabine Lake North Disposal Area
No. 11
Area Near Port Arthur, Texas
Boring No. 94-64 | Sample No. 3
Depth El 4-6 ft | Date 5/11/94

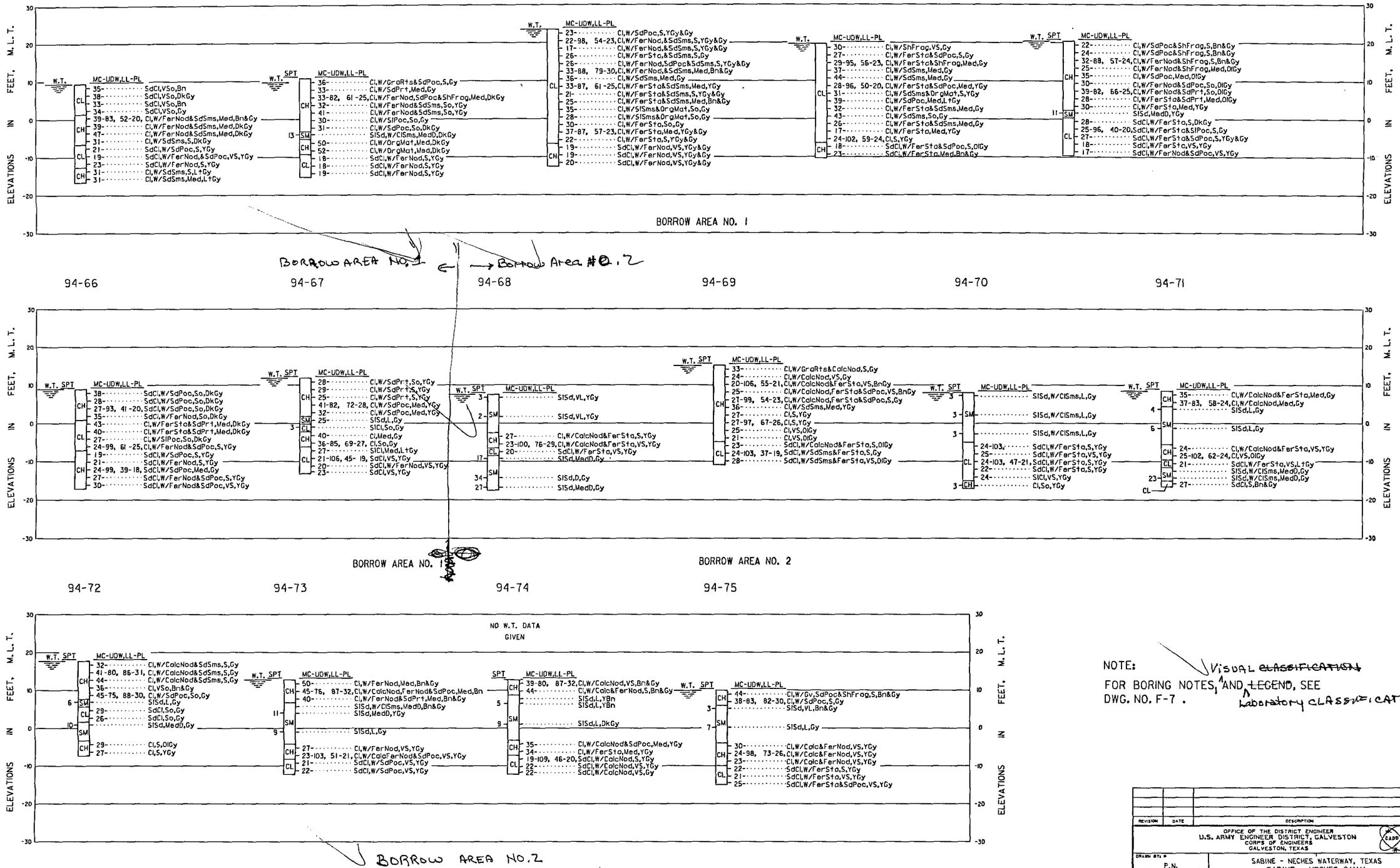
UNCONFINED COMPRESSION TEST REPORT

ENG FORM 1 JUN 65 3659

PLATE XI-2

Geotest Engineering, Inc.

PLATE



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