

TEST DATA SUMMARY

FEATURE LOG OF SOIL BORINGS

BORING NO.	SAMPLE NO.	DEPTH OR ELEV. OF SAMPLE	MECHANICAL ANALYSIS				ATTENBERG LIMITS		SAR L. S. %	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS./CU.FT.	LABORATORY CLASSIFICATION
			GRAVEL %	SAND %	FINES %	Mo %	LL	PL				
65T-2	59-2570	0.0				0.75						0.0-2.0
		2.0										G-R, Clayey Shell Fill, Plastic
	2571	4.0	4	32	64	0.75	55.3		19.0	32.4	83.9	2.0-4.0
		4.0										G-R, SaCl(CH), Pl, w/shell
	2572	8.0	0	87	13	0.75			0.0	29.2		4.0-10.0
		8.0										Br-G, SiSa(Sm)
	2573	10.0	0	84	16	0.75			0.0	34.4		
		10.0										10.0-12.0
	2574	12.0	0	26	74	0.75	73.1		17.0	42.2		Br-B, SaCl(CH), v/s, Org.
		12.0										12.0-13.0
	2575T	13.0	0	71	29	0.50			0.0	29.6	96.2	G, SiSa(Sm)
		13.0										13.0-14.0
	2575B	14.0	0	18	82	0.50	53.3		19.0	62.3	62.0	G, Cl(CH), Pl, w/shell
		14.0										14.0-16.0
	2576	16.0	2	24	74	-	63.1		34.0	43.3		R-G, SaCl(CH), Org., Fill
		16.0										16.0-20.0
	2577	18.0	0	4	96	0.75	71.7		26.0	37.3	83.1	Bw, Cl(CH), Pl, w/Sa lenses
		18.0										
	2578	20.0				0.75				39.8	84.5	
		20.0										20.0-24.0
	2579	22.0	0	57	43	0.75			4.0	30.5	92.0	G, ClSa, (SC), So
		22.0										
	2580	24.0				0.50				40.9	77.7	
		24.0										24.0-30.0
	2581	30.0	0	48	52	-	37.5		9.0	42.9		G, SaCl(CL), So
		30.0										30.0-38.0
	2582	32.0				0.25				32.3	87.4	G, ClSa, (SC) So
		32.0										
	2583	34.0				0.50				35.5	82.4	
		34.0										
	2584	36.0	0	50	50	0.75	33.6		4.0	42.5	75.5	
		36.0										
	2585	38.0				0.75				56.0	69.0	
		38.0										38.0-44.0
	2586	42.0	0	89	11	0.75			0.0	29.8		F-G, SiSa(Sm)
		42.0										
	2587	44.0	0	80	20	0.50			0.0	28.7	96.5	
		44.0										44.0-46.0
	2588	46.0	0	20	80	0.50	53.6		20.0	51.2	67.5	G, Cl(CH), Pl
		46.0										46.0-47.8
	2589	47.8	22	58	20	-			11.0	23.3	99.7	G, Cl Shelly Sa, (SC)
		47.8										47.8-52.0
	2590	50.0				2.50				33.7	88.0	G-Bw, Cl(CH) v/st.
		50.0										
	2591	52.0				2.75				33.1	89.0	
		52.0										52.0-58.0
	2592	53.5	0	1	99	2.50	83.9	24.9	27.0	34.5	88.1	G-R, Cl(CH) v/st.

* - Laboratory Penetrometer Readings

DLR-788

U.S. NAVY WHARF
PELICAN ISLAND
GALVESTON, TEXAS

TEST DATA SUMMARY

FEATURE LOG OF SOIL BORINGS

Sheet 3 of 3

BORING NO.	SAMPLE NO.	DEPTH OR ELEV. OF SAMPLE	MECHANICAL ANALYSIS				ATTERBERG LIMITS		BAR L. S. %	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS./CU.FT.	LABORATORY CLASSIFICATION
			GRAVEL %	SAND %	FINES %	$\frac{D_{60}}{D_{10}}$	LL	PL				
65T-2	2593	53.5				3.00				32.0	91.2	
(cont)	2594	55.0				2.25				33.9	88.4	
	2595	56.5	0	0	100	2.50	79.4		25.0	33.4	88.8	
	2596	58.0				2.00				29.0	95.0	58.0-61.0 G, CI (CL), v/st
	2597	59.5	0	4	96	0.75	36.8		11.5	28.5		st.
	2598	61.0	0	4	96	0.75	31.4		6.0	26.4	98.6	61.0-67.5 B.G. CI (CL), PI
	2599	62.5				0.90				26.5		
	2600	66.0	0	2	98	1.10	36.9		7.0	32.0	90.5	
	2601	67.5				0.75						67.5-70.0 T, CI Si
		No Sample										70.0-74.0 T, CI (CH), st., silty
	2602	70.0	0	2	98	1.60	51.3		14.0	30.7	91.6	
		71.5				2.40						74.0-78.5 G-T, CI (CH), st., silty
		No Sample										
	2603	74.0				3.25				30.2	92.0	
		75.5				2.45						78.5-100.0 G, CI (CH), st
		No Sample										
	2604	78.5				1.75				35.2	86.4	
		80.0	0	2	98	1.00	51.0		15.0	36.0	83.5	st
	2605	82.0				1.50				37.5	82.0	st
	2606	84.0				2.00				40.7	80.0	st
		86.0										
	2607	88.0	0	1	99	1.10	72.7		23.0	46.8	75.6	st
	2608	90.0				0.75				46.5	75.4	PI
	2609	92.0	0	1	99	0.75	77.2	24.4	20.0	45.3	71.5	PI
	2610	94.0				1.50				45.4	73.5	st
	2611	96.0				1.00				51.2	70.5	st
	2612	98.0				0.75				43.4	74.5	PI
	2613	100.0	0	4	96	1.30	64.4		19.0	42.7	79.2	st

Bottomed @ 100' in G (CI) (CH)
Water @ 4.5'

* - Laboratory Penetrometer Reading

DLR-758

SD FORM 053-R
23 AUG. 68

ϕ = m.c. and/or density doubtful

U. S. NAVY WHARF
 PELICAN ISLAND, GALVESTON, TEXAS
 Summary of Unconfined Compression Test Data
 Table 1

Boring No.	Sample Depth, ft.	Dust Serial No.	Density M.C., %	Data U.D.W. p.c.f.	Penetrometer Readings		Maximum Unconfined Compressive Strength, T/Sq.Ft.	Classification
					Field	Lab.		
3ST-1	6.0-8.0	59-2559	40.7	81.0	0.25	0.10	0.10	Bl-G, Cl Sa (SC)
	9.0-10.0	2560B	42.5	78.5	-	0.50	0.30	G-R, Shelly Cl (CH)
	14.0-16.0	2563	39.0	81.2	1.00	0.70	0.31	Ru, Cl (CH)
	18.0-20.0	2565	41.4	79.1	0.50	0.75	0.30	Ru, Cl (CH)
	26.0-28.0	2568	36.4	83.5	0.75	0.75	0.25	Bl, Si Sa (SM)
	28.0-30.0	2569	30.3	97.4	0.25	0.25	0.23	Bl, Si Sa (SM)
6ST-2	2.0-4.0	59-2571	32.4	83.9	0.75	0.75	0.29	G-R, Sa Cl (CL)
	22.0-24.0	2580	40.9	77.7	0.75	0.50	0.42	G, Cl Sa (SC)
	30.0-32.0	2582	32.3	87.4	0.25	0.25	0.23	G, Cl Sa (SC)
	32.0-34.0	2583	35.5	82.4	0.75	0.50	0.35	G, Cl Sa (SC)
	42.0-44.0	2587	28.7	96.5	0.50	0.50	0.34	T-G, Si Sa (SM)
	47.8-50.0	2590	33.7	88.0	2.75	2.50	1.83	G-Bu, Cl (CH)
	55.0-56.5	2594	33.9	88.4	2.75	2.25	1.69	G-R, Cl (CH)
	58.0-59.5	2596	29.0	95.0	2.50	2.00	1.33	G, Cl (CL)
	66.0-67.5	2600	32.0	90.5	2.25	1.10	0.65	Bu-G, Cl (CL)
	78.5-80.0	2603	35.2	85.4	0.50	1.75	2.06	G, Cl (CH)
	86.0-88.0	2607	46.8	75.6*	1.75	1.10	1.00	G, Cl (CH)
	94.0-96.0	2611	51.2	70.5	1.50	1.00	0.98	G, Cl (CH)
	98.0-100.0	2613	42.7	79.2*	1.50	1.30	1.33	G, Cl (CH)

District Laboratory Report No. 788

* M.C. and/or Density doubtful

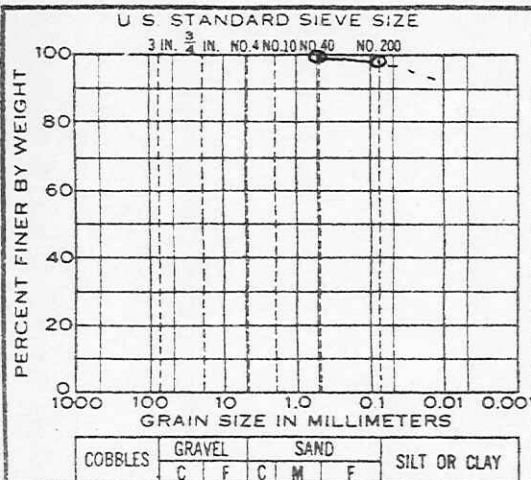
U. S. NAVY WHARF
 PELICAN ISLAND, GALVESTON, TEXAS
 SUMMARY OF IDENTIFICATION TESTS ON SAMPLES FOR SHEAR TESTS

TABLE 2

Boring No.	Sample Depth, Ft.	District Serial, No.	Density Data *		Atterberg Limits			Bar L.S.	Sieve Analysis			Classification
			M.C., %	U.D.W., lbs/cu.ft.	L.L.	P.L.	P.I.		Gr.	Sa.	Fines	
6ST-2	52.0-53.5	59-2592	34.5	88.1	83.9	24.9	59.0	27.0	0	1	99	G-R, Cl (CH) V/St.
	90.0-92.0	59-2609	45.3	71.5	77.2	24.4	52.8	20.0	0	1	99	G, Cl (CH) St.

District Laboratory Report No. 788

* M.C. and Density of Samples as received



Classification *G-R, CL(CH) 4/5T*

LL *83.9* G *—*

PL *24.9* D_{10} *< .05 mm*

Test No. *1 2 3*

Initial Water Content, W_0 % *34.5 34.5 34.5*

Dry Density Lbs/CuFt *88.0 86.5 85.1*

Void Ratio, e_0 *— — —*

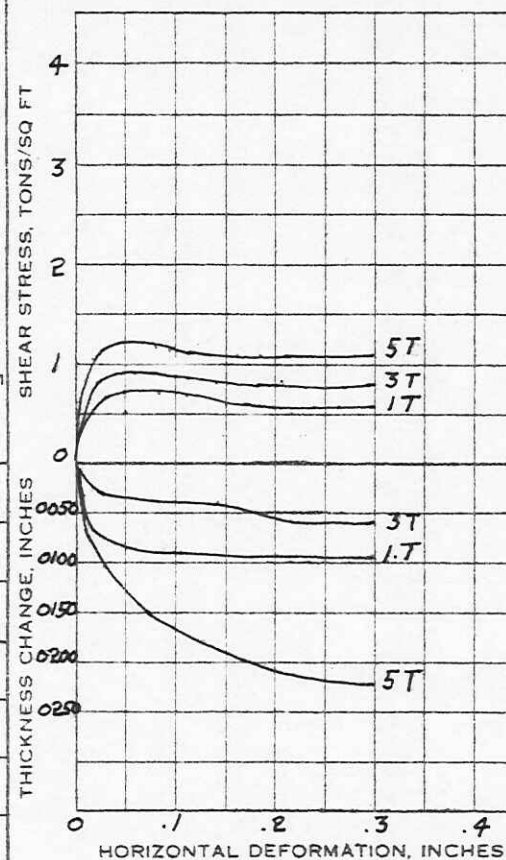
Saturation, S_0 % *— — —*

Duration of Test, hrs. *6 6 6*

WC after Test, W_f % *39.3 36.9 33.4*

Normal Stress, σ T/SqFt *1.0 3.0 5.0*

Max. Shear Stress, τ T/SqFt *0.66 0.94 1.20*



Type of Test
STRAIN - Control

☒ Consolidated

☒ Drained

Type of Specimen
UNDISTURBED

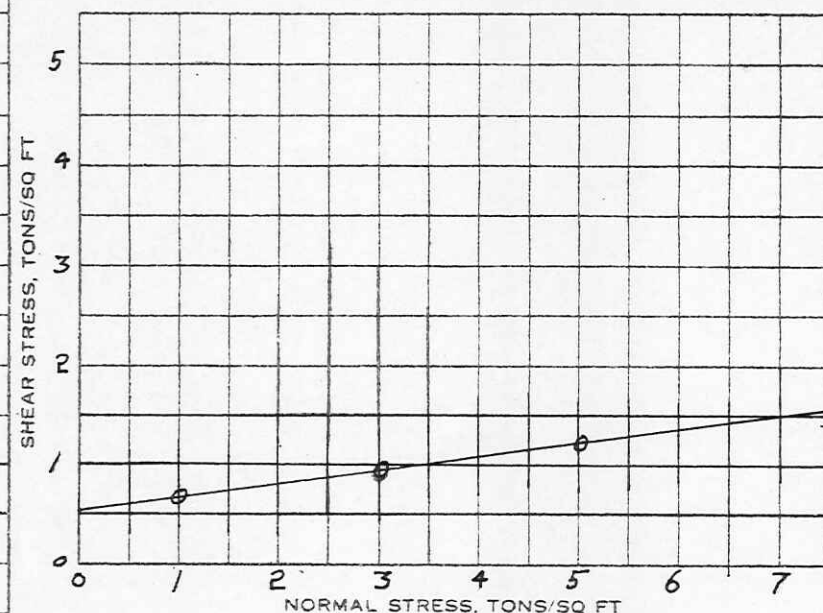
3 in. square

3/4 in. thickness

SHEAR VALUES ϕ TAN ϕ C, T/SQ FT

Maximum *7.6° .1333 0.55*

Ultimate



Remarks: *RATE OF SHEAR APPROX. 0.001 "/min.*

Project *PELICAN ISLAND*

U.S. NAVY WHARF

Area *GALVESTON, TEXAS*

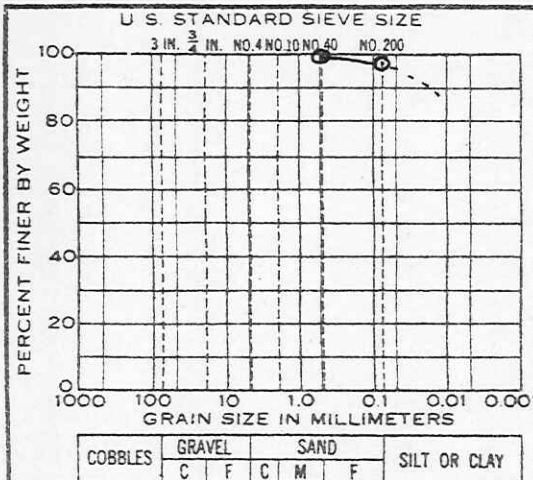
Boring No. *65T-2*

Sample No. *59-2592*

~~Elev~~ Depth *52-53.5*

Date *SEPTEMBER 1, 1959*

DIRECT SHEAR TEST REPORT



Classification *G, CI(CH), St.*

LL *77.2* G —

PL *24.4* $D_{10} < .05 \text{ mm}$

Test No. *1 2 3*

Initial Water Content, W_0 % *45.3 45.3 45.3*

Dry Density Lbs/Cu Ft *75.6 75.4 76.5*

Void Ratio, e_0 — — —

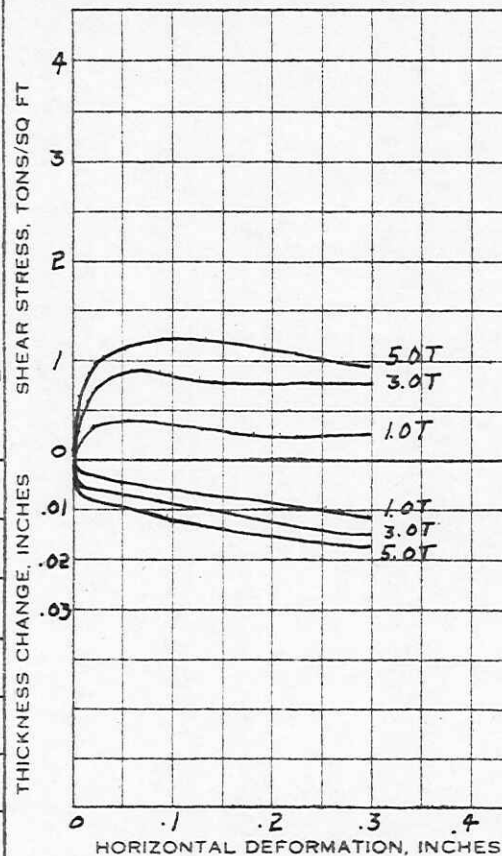
Saturation, S_g % — — —

Duration of Test, hrs. *6 6 6*

WC after Test, W_f % *44.4 40.8 39.7*

Normal Stress, σ T/Sq Ft *1.0 3.0 5.0*

Max. Shear Stress, τ T/Sq Ft *0.35 0.93 1.19*



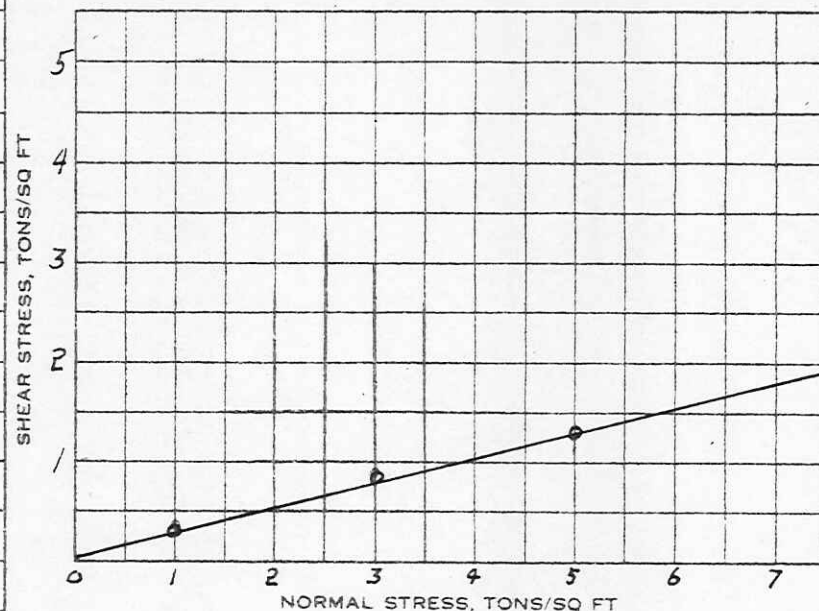
Type of Test
STRAIN- Control

☒ Consolidated
☒ Drained

Type of Specimen
UNDISTURBED

3 in. square
3/4 in. thickness

SHEAR VALUES	ϕ	TAN ϕ	C, T/SQ FT
Maximum	<i>14.7°</i>	<i>2.633</i>	<i>0.0</i>
Ultimate			



Remarks: *RATE OF SHEAR APPROX. 0.001 "/min*

Project *PELICAN ISLAND*

U.S. NAVY WHARF

Area *GALVESTON, TEXAS*

Boring No. *65T-2*

Sample No. *59-2609*

~~Depth~~ *90'-92'*

Date *SEPTEMBER 1, 1959*

DIRECT SHEAR TEST REPORT