Sawmill Jetty

HOLE NO. 6ST-2

DEPARTMENT OF THE ARMY
DIVISION Southwestern
INSTALLATION Galv Dist, Eng Div

DRILLING LOG

1. PROJECT: Sabine Neches - Jetty
SHEET OF
2. LOCATION (Coordinates or Station): Tide 1.2 @ 4:20 PM
3. DRILLING AGENCY: U. S. Army Corps of Engineers
4. HOLE NO. (As shown on drawing title and file No.): 6ST-2
5. NAME OF DRILLER: Eck
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED; DEGREES WITH VERTICAL
7. THICKNESS OF OVER-BURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE: 47.0
10. SIZE AND TYPE OF BIT: Shelby Tube - 6"
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
12. MANUFACTURER'S DESIGNATION OF DRILL
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED 9 Jars; UNDISTURBED 7 Cont
14. TOTAL NO. CORE BOXES
15. ELEV. GROUND WATER
16. DATE HOLE: STARTED 27 July; COMPLETED 27 July 1962
17. ELEV. TOP OF HOLE
18. TOTAL CORE RECOVERY FOR BORING (%)
19. SIGNATURE OF INSPECTOR

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
0.0	7.0		Water			
7.0	9.0		Gray clayey silt, sand, w/shell fragments, v/soft			Jar 1
9.0	11.0		Same as above, v/soft			Jar 2
11.0	12.0		Vain shear, 3-5/8" size vain 140#			No sample
12.0	14.0		Gray clay, v/soft			Cont. 1 Triax-Q
14.0	16.0		Same as above, v/soft			Jar 3
16.0	17.0		Vain shear 3-5/8" size 225#			No sample
17.0	19.0		Gray clay, v/soft			Jar 4
19.0	21.0		Same as above, v/soft			Jar 5
21.0	22.0		Vain shear, 3-5/8" size 275#			No sample
22.0	24.0		Gray clay w/small pockets fine sand and silt, soft			Cont. 2 Unc Comp. 0.25
24.0	26.0		Same as above, v/soft			Jar 6
26.0	27.0		Vain shear 3-5/8" size vane, 350#			No sample
27.0	29.0		Gray clay w/layers coarse sand and shell frag, soft			Cont. 3 Consol 0.25
29.0	31.0		Gray clayey silt, fine sand w/shell frag, v/soft			Jar 7
31.0	32.0		Vain shear 3-5/8" size 450#			No sample
32.0	34.0		Same as above, v/soft			Jar 8
34.0	36.0		Gray clay w/silty fine sand pockets, v/soft			Cont. 4 Unc. Comp.
36.0	37.0		Vain shear 3-5/8" size 525#			No sample
37.0	39.0		Gray clay, v/soft			Jar 9
39.0	41.0		Gray clay w/layers silt and sand, shell frag, v/soft			Cont. 5 Unc. Comp.
41.0	42.0		Vain shear 3-5/8" size 550#			No sample
42.0	44.0		Gray clayey fine sandy silt v/soft			Cont. 6 Unc. Comp.
44.0	46.0		Gray clay w/layers fine sand and silt, med			Cont. 7 0.50
46.0	47.0		Vain shear 3-5/8" size, 500#			No sample
			Bottom in above			

Sabine Pass Jetty

TEST DATA SUMMARY

FEATURE Log of Soil Borings

BORING NO.	SAMPLE NO.	DEPTH OR ELEV OF SAMPLE	LABORATORY CLASSIFICATION	MECHANICAL ANALYSIS: GRAVEL %	SAND %	FINES %	D_{10} ★	ATTERBERG LIMITS: LL	PL ★	SPECIFIC GRAVITY G	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS/CU FT	COMPACTION DATA: OPTIMUM WATER %	MAXIMUM DRY DENSITY LBS/CU FT	SHEAR DATA: INITIAL e	DRY DENSITY LBS/CU FT	W_i %	W_f %	S_i %	TYPE TEST	SPECIMEN SIZE INCHES	TEST	σ_m T/SQ FT	σ_1 T/SQ FT	C T/SQ FT	Ø DEGREES	PERMEABILITY: e	K FT/MIN	CONSOLIDATION DATA: P_o T/SQ FT	P_c T/SQ FT	C_c	t_{60} *	REMARKS
TST 1 Cont	-62- 5567	54.0	Same as # 5562				0.50				62.8	58.3	Gray Clay (CH) medium																				
	5565	56.0	CH	0	0	100	0.50	71.1	22.0	14'	76.7	53.9	Gray Clay (CH) medium																			MC-63
	5566	58.0	Same as # 5565				0.50				58.5	60.4	Gray Clay (CH) medium																			
	5567	60.0	OH	No	Test		1.00			58.4	123.3	36.4	Gray Clay with toomuch organic material for testing																			
	5568	62.0	CH	0	1	99	0.75	55.3	17.0	2' 60.4	74.1	52.9	Dark Gray Clay (CH) with organic material, medium																			MC-123
	5569	64.0	Same as # 5568				0.75				91.8	43.9	Dark Gray Clay (CH) with organic material. medium																			MC-83
	5570	66.0	CH	0	29	71	0.75	57.6	18.5	6'	31.9	68.3	Light Gray Sandy Clay (CH) slightly organic, medium																			MC-32
	5571	68.0	Same as # 5572				0.75			66.4	26.2	97.0	Light Gray Sandy Clay (CL) slightly organic, medium																			
	5572	70.0	CL	0	20	80	1.00	36.0	14.5	6'	26.2	98.2	Light Gray Sandy Clay (CL) Stiff																			
	5573	72.0	CL	0	29	71	1.00	34.2	14.0		24.7	100.6	Light Gray Sandy Clay (CL) Stiff																			MC-26
		74.0								72.4	Bottomed in Gray Sandy Clay (CL)																					
TST 2	-62- S	0.0					S	TIDE	1.2				Water																			
		7.0								5.8																						
	5578	9.0	ML	0	27	73	S		2.0		52.0		Gray Sandy Silt with shell fragments and free water very Soft																			MC-1
	5579	11.0	ML	0	26	74	S		1.0		39.6	5'	Gray Sandy Silt very Soft																			MC-46
	S	12.0					S			10.8			Vain Shear, 3⅜" Size Vain # 140																			
	5580	14.0	Same as # 5581				0				114.9	43.2	Gray Clay (CH) Very Soft																			
	5581	16.0	CH	0	0	100	S	61.2	19.0		90.4		Gray Clay (CH) Very Soft																			
	S	17.0					S						Vain Shear, 3⅜" Size vain 225 #																			
	5582	19.0	CH	0	0	100	S	70.0	21.0		97.2		Gray Clay (CH) Soft																			
	5583	21.0	Same as # 5582				S				80.9		Gray Clay (CH) Very Soft																			MC-94
	S	22.0					S						Vain Shear, 3⅜" Size Vain 275 #																			
	5584	24.0	CH	0	2	98	0.25	65.2	21.0		86.5	48.4	Gray Clay (CH) with small pockets of fine sand Soft																			

★ Values at Pressure T/SQ FT

- Triaxial Compression
UC - Unconfined Compression
DS - Direct Shear
UU - Unconsolidated Undrained
- Consolidated Drained
CU - Consolidated Undrained

*Laboratory Piezometer Reading ** Bar L.S.

Sabine Pass Jetty

TEST DATA SUMMARY

FEATURE Log of Soil Borings

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6ST-2 Cont	-62-5585	24.0	Same as # 5584				S					15'	Gray Clay (CH) Very Soft																				
	S	26.0					S						Vain Shear, 3 5/8" Size Vain, 350#																				
		27.0		0-4-58						25.8																							
Top	5586	28.0	SM	0	62	38				26.8	33.9	1'	Gray Silty Sand (SM) with shell fragments																				MC-34
Bot	5586	29.0	CH	0	0	100	0.25	97.2	27.0	27.8	82.0	60.7	1'	Gray Clay (CH) Soft with Shell																			MC-82
	5587	31.0	ML	0	39	61	S		2.0	29.8	30.7	2'	Gray Sandy Silt (ML) with shell fragments																				MC-31
	S	32.0					S						Vain Shear, 3 5/8" Size 450#																				
	5588	34.0	CL	0	37	63	S	38.9	10.5	32.8	59.1	3'	Gray Sandy Clay (CL) with Shell fragment																				MC-59
	5589	36.0	CH	0	15	85	0	62.1	19.5		81.0	59.9	Gray Sandy Clay (CH) Very Soft																				
	S	37.0					S						Vain Shear, 3 5/8" Size 525#																				
	5590	39.0	CH	0	12	88	S	61.6	21.0		99.0	51.1	Gray Clay (CH) Very Soft																				MC-84
	5591	41.0	CH	0	1	99	0	79.5	24.5		73.3	58.6	Gray Clay (CH) with shell fragments Very Soft																				
	S	42.0					S						Vain Shear, 3 5/8" Size Vain 550#																				
	5592	44.0	CL	0	23	77	0	39.8	13.0		50.6	68.9	Gray Clay (CL) Very Soft																				MC-54
	5593	46.0	CH	0	5	95	0.50	56.1	20.0		56.5	67.2	Gray Clay (CH) medium																				
	S	47.0					S					13'	Vain Shear 3 5/8" Size Vain 500#																				
										45.8			Bottomed in Gray Clay (CH) medium																				
6ST-4A	-62- S	0.0											Vain Shear to 65.0'																				
		65.0																																
	S	66.0											No Sample																				
	5574	68.0	CL	0	18	82	S	35.2	12.0		39.9	5'	Light Gray Sandy Clay (CL) Soft																				MC-39
	5575	70.0	Same as # 5574								37.1		Light Gray Sandy Clay (CL) Soft																				
				0-0-60																														
	5576	72.0	SM	0	68	32	S		1.0		23.3		Light Gray Silty Sand (SM)																				
	S	75.0										6'	Driller's classification: Same as Bel																				MC-23
	5577	76.0	Same as # 5576	S							22.5		Gray Silty Sand (SM)																				

Bottomed in Gray Silty Sand

★ Values at Pressure T/SQ FT

Triaxial Compression - UC - Unconfined Compression; DS - Direct Shear; UU - Unconsolidated Undrained; - Consolidated Drained; CU - Consolidated Undrained

★/Laboratory Penetrometer Reading ★★ Bar L.S.