160

LOG OF BORING

PROJECT: Sabine Neches Waterway Dredging Range Towers
FOR: Corps of Engineers, Galveston

BORING NO: 3ST-1
LOCATION: 3,641,816.89-686,955.15

DATE: 10/29/65 JOB NO: 65-93 BORING TYPE: 3" Diam. Intermittent
DRILLER: A. Canatella SOIL ENGINEER: D. Pickett GROUND ELEV.:

LEGEND

S-Shelby Tube D-Denison Barrel P-Penetration Test J-Jar
■-Core ⊠-Penetration Sample ⊘-No Recovery
▽-Static Water Table ▼-Hydrostatic Water Table

Depth in Feet	Sample Type & Sample No.	Penetrometer Reading, tsf	Blows / Foot	DESCRIPTION OF STRATUM
				Water
				(Numbers in parentheses opposite sample numbers are the cohesion in tsf obtained by hand vane shear tests.)
5				
10				
15				
20				
				Mud line 21.6'
	1	0.0		Very soft gray very sandy silty clay (0.055) 11 0
25				
	2	0.0		(0.042) 8 4 -with pockets of shell fragments
30				
	3	0.0		(0.112) 22 4 -becomes very soft slightly silty clay with occasional thin clayey silty sand layers
35				
	4	0.0		(0.061) 12 7 -with clayey silty sand layers and shell fragments
40				
	5	0.0		9 6 (0.048) -with occasional clayey sand layers and shell fragments
45				

Sabine Neches Waterway LOG OF BORING

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Depth in Feet	Sample Type & Sample No.	Penetrometer Reading, tsf	Blows / Foot	DESCRIPTION OF STRATUM
50	6	0.0		Very soft gray clay with occasional thin silty sand layers and shell fragments (0.112) 224
	7	1.25		-becomes plastic gray clayey sand -becomes firm gray silty sand @ 53' 53.0'
55	8J		20	6-11-9 Firm gray silty fine sand
60				
	9J		39	12-15-24 -becomes dense
65				
70				
	10J		74	30-36-38 -becomes very dense light gray fine sand
75				
80				
	11J	50/6"		-becomes white
85				
90				

Sabine Neches Waterway LOG OF BORING

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Depth in Feet	Sample Type & Sample No.	Penetrometer Reading, tsf	Blows / Foot	DESCRIPTION OF STRATUM
95	12J	50/5"		Very dense light gray fine to medium sand
				98.5'
100	13J	1.3	18	Stiff gray slightly silty clay with wood particles 10-9-9
105	14	2.3		-becomes very stiff gray silty clay with tiny roots
110	15	3.7		-with calcareous nodules (small to large)(core severely damaged by large calcareous nodules)
115	16	4.0		-with sandy silt lenses
120	17	4.0		-becomes very stiff gray and brown silty clay with occasional sandy silt lenses and small shell fragments
125				Bottom @ 123.5'
130				

SWG Form 279 (C)
28 Jan 1965

SUMMARY UNCONFINED COMPRESSION TEST DATA
TABLE 1

GALVESTON DISTRICT LABORATORY REPORT NO. 1092

PROJECT Sabine Neches WW Tex 40'Ch Hopper Dredge Range Tower

BORING NO	DEPTH FT	% GRAVEL	% SAND	% FINES	% MOISTURE	DRY WT. P.C.F.	L.L.	P.L.	L.S.	% STRAIN @ MAX. STRESS	MAX. STRESS P.S.F.	POCKET PENETRO-METER*	CLASSIFICATION
Right location													
35T-1	21.6-23.5	0	32	68	65	58	39		10.0	sample slumped No Test		0.00	Dark Gray sandy clay (CL), v/soft
"	26.5-28.5	0	14	86	89	51	53		18.0	"	"	0.00	Dark Gray clay (CH), v/soft
"	31.5-33.5	2	28	70	70	51	47		12.0	7.05	132	0.00	Gray sandy (clay) (CL), v/soft
"	36.5-38.5	0	14	84	99	44	63		15.0	sample Disturbed No Test		0.00	Dark Gray clay (CH), v/soft
"	43.5-45.5	0	2	98	114	44	73		19.0	7.94	131	0.00	Dark Gray clay (CH), v/soft
"	46.5-48.5	0	0	100	106	43	81		23.0	5.29	108	0.00	Dark Gray clay (CH), v/soft
"	51.5-53.5	0	48	52	24	103			3.0	5.29	1508	0.75	Gray sandy clayey silt (CL-ML)
"	106.5-108.5	0	14	86	24	102	56		21.0	16.76	4806	1.75	Gray clay (CH), stiff
"	111.5-113.5	2	22	76	21	107	46		18.0	7.94	4917	3.70	Gray sandy clay (CL), v/stiff
"	116.5-118.5	0	6	94	28	92	54		20.0	4.41	1443	4.00	Brown clay (CH), Hard
"	121.5-123.5	0	6	94	35	85	79		25.0	5.29	4767	3.00	Brown clay (CH), v/stiff

*TONS/SQ.FT. UNCONFINED COMPRESSIVE STRENGTH

SWG Form 267(C)
28 Jan 1965

PROJECT: Sabine Neches W.W. Tex. 40'ch.

BORING NO. 3st-1

LOCATION: Hopper Dredge Range Tower Right Location

TEST DATA SUMMARY

DATE DRILLED 29 Oct. 1965

FIELD NO.	DEPTH	CLASSIFICATION ELEVATION TOP BORING _____	SYMBOL	CONSISTENCY	POCKET (1) PENETROMETER	STAN. PENET. BLOWS/FT (2)	MOISTURE CONTENT %	DRY DENSITY p. c. f.	L.L.	P.L.	BAR L.S.	SIEVE ANALYSIS PERCENT GRVL	SAND	FINES	INIT. WT.	ACC. WT. RTND. SIEVE NO. (3) NO. 4	NO. 10	NO. 40	NO. 200
	0-21½	Water																	
C-1	21½-23½	Dark, Gray, Sandy Clay 21½-23½	CL	VS	0.00	(4)	25.1	58	39		10.0	0	32	68	50	0	0	0	16
X	23½-26½	Washed, same as above																	
C-2	26½-28½	Dark, gray clay 26½-28½	CH	VS	0.00	(8)	38.5	51	53		18.0	0	14	86	50	0	0	1	7
X	28½-31½	Washed, same as above																	
C-3	31½-33½	Gray, sandy clay 31½-33½	CL	VS	0.00	(1)	69.8	51	47		12.0	2	28	70	50	1	1	3	15
X	33½-36½	Washed, same as above																	
C-4	36½-38½	Dark, gray clay 36½-48½	CH	VS	0.00		98.5	44	63		15.0	0	14	86	50	0	0	1	7
X	38½-43½	Washed, same as above																	
C-5	43½-45½			VS	0.00	(106)	114.2	44	73		19.0	0	2	98	50	0	0	0	1
X	45½-46½	Washed, same as above																	
C-6	46½-48½			VS	0.00		106.4	43	81		23.0	0	0	100	50	0	0	0	0
X	48½-51½	Washed, same as above																	
C-7	51½-53½	Gray, sandy, clayey silt 51½-53½	ML	M	0.75		24.3	103			3.0	0	48	52	50	0	0	0	24
J-8	53½-55	Gray, brown silty sand 52½-55	SM	M		20	25.2				0.0	0	78	22	50	0	0	0	39
X	55-61	Washed, no sample, change to silty sand (SP-SM) estimated at 58'																	
J-9	61-62½	Gray, brown, silty sand 61-92½	SP SM	D		29	22.8				0.0	0	90	10	50	0	0	0	45
X	62½-71	Washed, No sample, assumed same as above					(25)												
J-10	71-72½			VD		74	26.7				0.0	0	92	8	50	0	0	0	46
X	72½-81	Washed, No sample, assumed same as above																	
J-11	81-82½			VD		150	21.3				0.0	0	94	6	50	0	0	13	47
X	82½-91	Washed, No sample, assumed same as above																	
J-12	91-92½			VD		120	21.3				0.0	0	92	8	50	0	0	20	46
X	92½-101	Washed, No sample change to clay (CH) estimated at 96.75'						96.75'											
J-13	101-102½	Dark, gray clay 101-102½	CH	M		18	49.8		57		15.0	0	6	94	50	0	0	0	3
X	102½-106½	Washed, No sample, assumed same as above					(37)												
C-14	106½-108½			ST	1.75		24.3	102	56		21.0	0	14	86	50	0	0	0	7
X	108½-111½	Washed, No sample, change to sandy clay (CL) estimated at 110'																	
C-15	111½-113½	Gray, sandy clay 111½-113½	CL	VST	2.00	(28)	20.1	107	46		18.0	2	22	76	50	1	2	3	12
X	113½-116½	Washed, No sample, change to clay (CH) estimated at 115'																	

NOTE:

CONSISTENCY — COHESIVE SOILS					CONSISTENCY — COHESIONLESS SOILS				
M	ST	VST	H		VL	L	M	D	VD
Medium	Stiff	Very Stiff	Hard		Very Loose	Loose	Medium	Dense	Very Dense

(1) Tons/Sq.Ft. Unconfined Compressive Strength
(2) Split Barrel Sampler
(3) Acc. Wt. Rtnd ÷ Init. Wt. x 100 = % Rtnd.

BORING NO. 3st-1

SWG Form 267(C)
28 Jan 1965

PROJECT: Sabine Neches W.W. Tex. 40'Ch.

BORING NO. 35+-1

TEST DATA SUMMARY

LOCATION: Hopper Dredge Range Tower

DATE DRILLED 29 Oct. 1965

FIELD NO.	DEPTH	CLASSIFICATION ELEVATION TOP BORING _____	SYMBOL	CONSISTENCY	POCKET (1) PENETROMETER	STAN. PENET. BLOWS/FT (2)	MOISTURE CONTENT %	DRY DENSITY p. c. f.	L.L.	P.L.	BAR L.S.	SIEVE ANALYSIS PERCENT GRVL	SAND	FINES	WT. INIT.	ACC. WT. RTND. SIEVE NO. (3) NO. 4	NO. 10	NO. 40	NO. 200
C-16	116.5-118.5	Brown Clay 116.5 - 123.5	CH	H	4.00		27.7	92	54		20.0	0	5	94	50	0	0	0	3
X	118.5-121.5	Washed, No sample, assumed same	as	above															
C-17	121.5-123.5			VST	3.00		35.3	85	79		25.0	0	6	94	50	0	0	0	3

CONSISTENCY — COHESIVE SOILS: S M St VST H

CONSISTENCY — COHESIONLESS SOILS: VL L M D VD

(1) Tons/Sq.Ft. Unconfined Compressive Strength
(2) Split Barrel Sampler
(3) Acc. Wt. Rtnd. ÷ Init. Wt. x 100 = % Rtnd.

BORING NO. 35+-1