# EUSTIS ENGINEERING SINCE 1946

### LOG OF BORING AND TEST RESULTS

# Ducks Unlimited, Inc. Pierce Marsh Beneficial Use Marsh Creation Phase 1

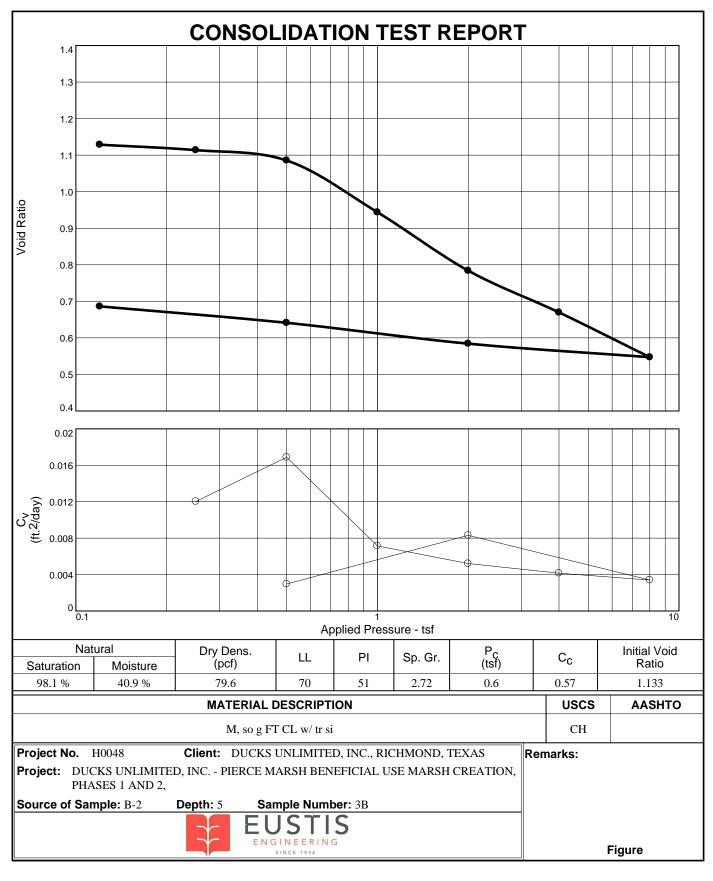
North of West Bay Near Galveston Island Galveston County, Texas **Boring: B-2** 

Project No: H0048 Date: 07/17/2022 Latitude: 29.30847° Longitude: -94.96260°

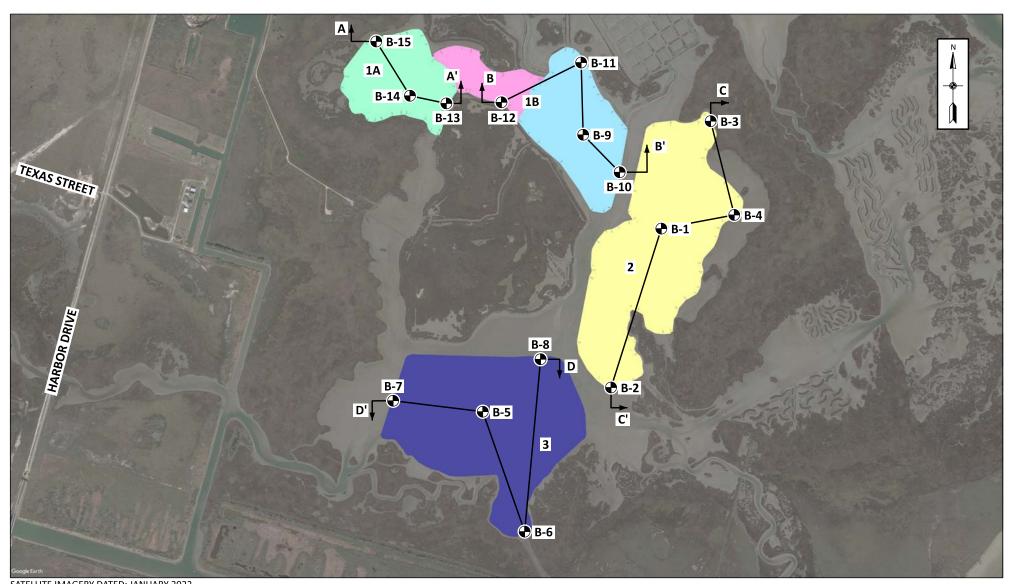
Water Depth: See Text Total Depth: 40.0 ft

	Scale in	PP	SPT	S P L R	Symbol	Visual Classification	USC	Sample Number	Depth in Feet	Water Content %	Density		Shear Tests			Atterberg Limits			Other Tests
	Feet	''	31 1								Dry pcf	Wet pcf	Туре	ф	C psf	LL	PL	PI	Other Tests
	- 0 -	0.25 0.50				Moist, soft gray LEAN CLAY w/few fine sand pockets Moist, very soft to soft gray & tan FAT CLAY w/few fine sand pockets & concretions	CL CL	1A 1B 2A 2B 3A	0 1 2 3 4	43 49 36 29 33	93	120	ОВ	0	239				
2.GLB EE STANDARD BORING LOG H0048.GPJ 8/18/22	5 –	0.25 0.25			Moist, soft gray LEAN CLAY w/few concretions Moist, soft gray LEAN CLAY w/few fine sand pockets	CL	3B 4A 4B 5A	5 6 7 8	37 35 36 41	85	116	ОВ	0	74	70	19	51	CON	
	10 -	0.25 1.00						5B 6A 6B 7A	9 10 11 12	34 35 35 24						43	16	27	
	15 -	1.00 2.00			Moist, stiff to very stiff gray, reddish-tan, & brown FAT CLAY w/trace of fine sand & concretions	СН	7B 8A 8B	13 14 15	25 25 26	102	127	ОВ	0	2131	66	20	46		
		2.00 2.00				Moist, stiff reddish-tan FAT CLAY w/few fine sand pockets & lenses	СН	9A 9B 10A 10B	16 17 18 19	28 28 25 26	99	125	ОВ	0	1008				
	20 –							11A	23	31									
	25 -	1.00				Moist, stiff reddish-brown FAT CLAY w/trace of fine sand pockets	СН	11B	24	31									
	30 -	1.00				Moist, stiff tan & gray fine SANDY LEAN CLAY w/few concretions	CL	12A 12B	28 29	23 23	101	124	ОВ	0	1077				
	35 -	0.50						13A 13B	33 34	24 27						37	20	17	
ARY_4-18-2022.GLB	40 -	0.50				Moist, medium stiff reddish-brown & gray fine SANDY LEAN CLAY	CL	14A 14B	38 39	27 31	92	120	ОВ	0	797				
GINT_LIBRARY	45 -																		
EUSTIS	- <sub>50</sub> _																		

NOTES: Boring 2 was drilled in 1 ft. of water



Tested By: BH Checked By: RR



SATELLITE IMAGERY DATED: JANUARY 2022

NOT TO SCALE

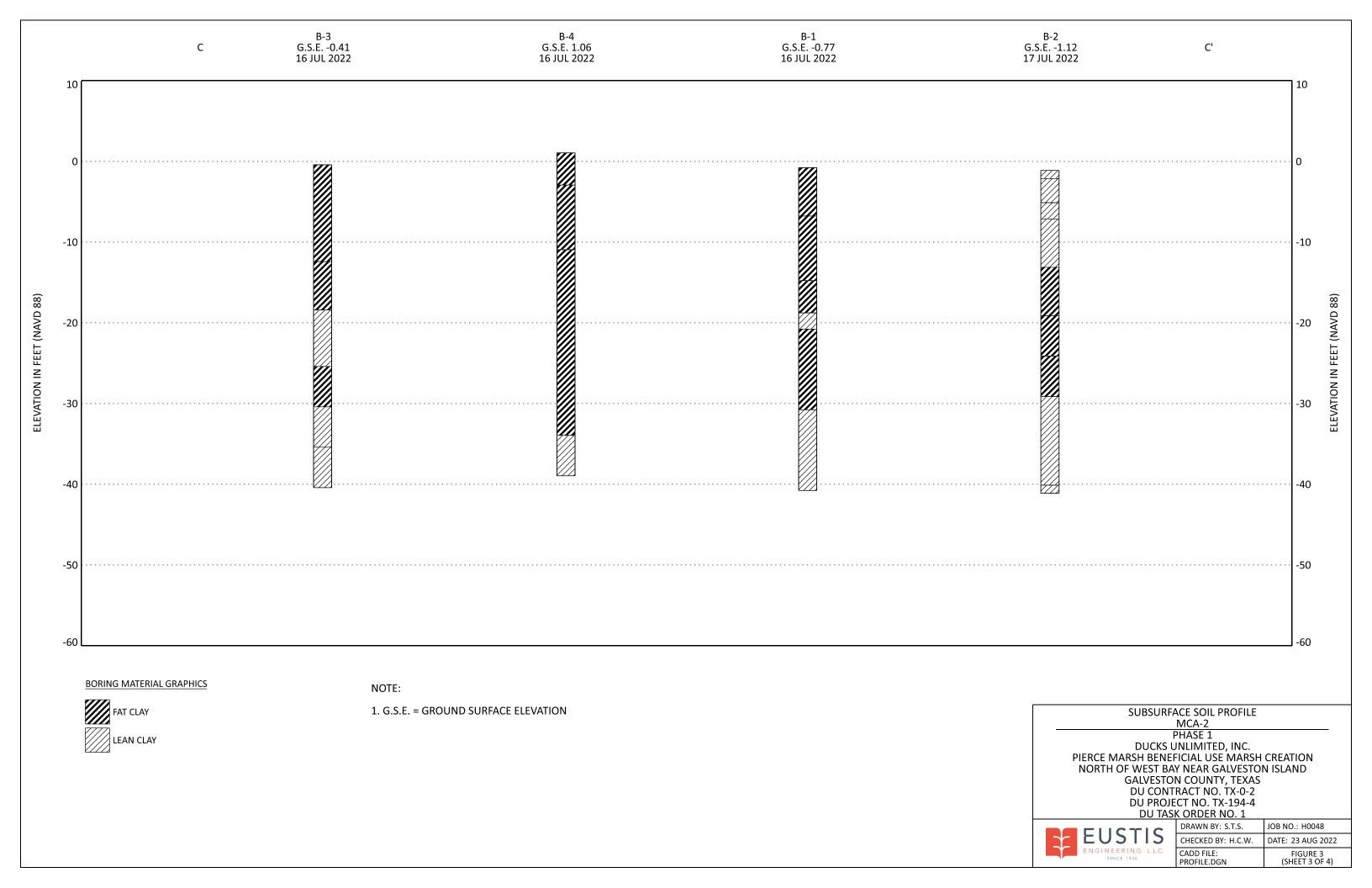
DENOTES APPROXIMATE LOCATIONS OF SOIL BORINGS DRILLED BETWEEN 11 AND 18 JULY 2022

#### **BORING LOCATION PLAN**

PHASE 1
DUCKS UNLIMITED, INC.
PIERCE MARSH BENEFICIAL USE MARSH CREATION
NORTH OF WEST BAY NEAR GALVESTON ISLAND
GALVESTON COUNTY, TEXAS
DU CONTRACT NO. TX-0-2
DU PROJECT NO. TX-194-4
DU TASK ORDER NO. 1



CORDER NO. 1	
DRAWN BY: S.T.S.	JOB NO.: H0048
CHECKED BY: H.C.W.	DATE: 15 AUG 2022
CADD FILE: LOCATION PLAN.DGN	FIGURE 2





## LEGEND AND NOTES FOR LOG OF BORING AND TEST RESULTS

PP Pocket penetrometer: Resistance in tons per square foot Standard Penetration Test: Number of blows of a 140-lb hammer dropped 30 inches required to SPT drive 2-in. O.D., 1.4-in. I.D. sampler a distance of 1 foot into the soil after first seating it 6 inches. Values shown have not been corrected. Shelby SPT Auger Uvibracore Type of Sampling **SPLR** SYMBOL Clay Silt Peat/Humus Shells Stone/Gravel Sand Predominant type shown heavy; modifying type shown light USC **Unified Soil Classification** 

### SHEAR TESTS

**TYPE** 

UC Unconfined compression shear

DENSITY Unit weight in pounds per cubic foot

OB Unconsolidated undrained triaxial compression shear on one specimen confined at the approximate overburden pressure

UU Unconsolidated undrained triaxial compression shear

φ Angle of internal friction in degrees

c Cohesion in pounds per square foot

### ATTERBERG LIMITS

LL Liquid Limit

PL Plastic Limit

PI Plasticity Index

#### **OTHER TESTS**

CON Consolidation

-#200 Percent passing a U.S. No. 200 sieve

SV Particle size distribution (sieve only)

PD Particle size distribution (sieve and hydrometer)

k Coefficient of permeability in centimeters per second

SP Swelling pressure in pounds per square foot

Other laboratory test results reported on separate figures

### **GENERAL NOTES**

- (1) If a ground water depth is shown on the boring log, these observations were made at the time of drilling and were measured below the existing ground surface. These observations are shown on the boring logs. However, ground water levels may vary due to seasonal fluctuations and other factors. If important to construction, the depth to ground water should be determined by those persons responsible for construction immediately prior to beginning work.
- (2) While the individual logs of borings are considered to be representative of subsurface conditions at their respective locations on the dates shown, it is not warranted that they are representative of subsurface conditions at other locations and times.