

## LOG OF BORING AND TEST RESULTS

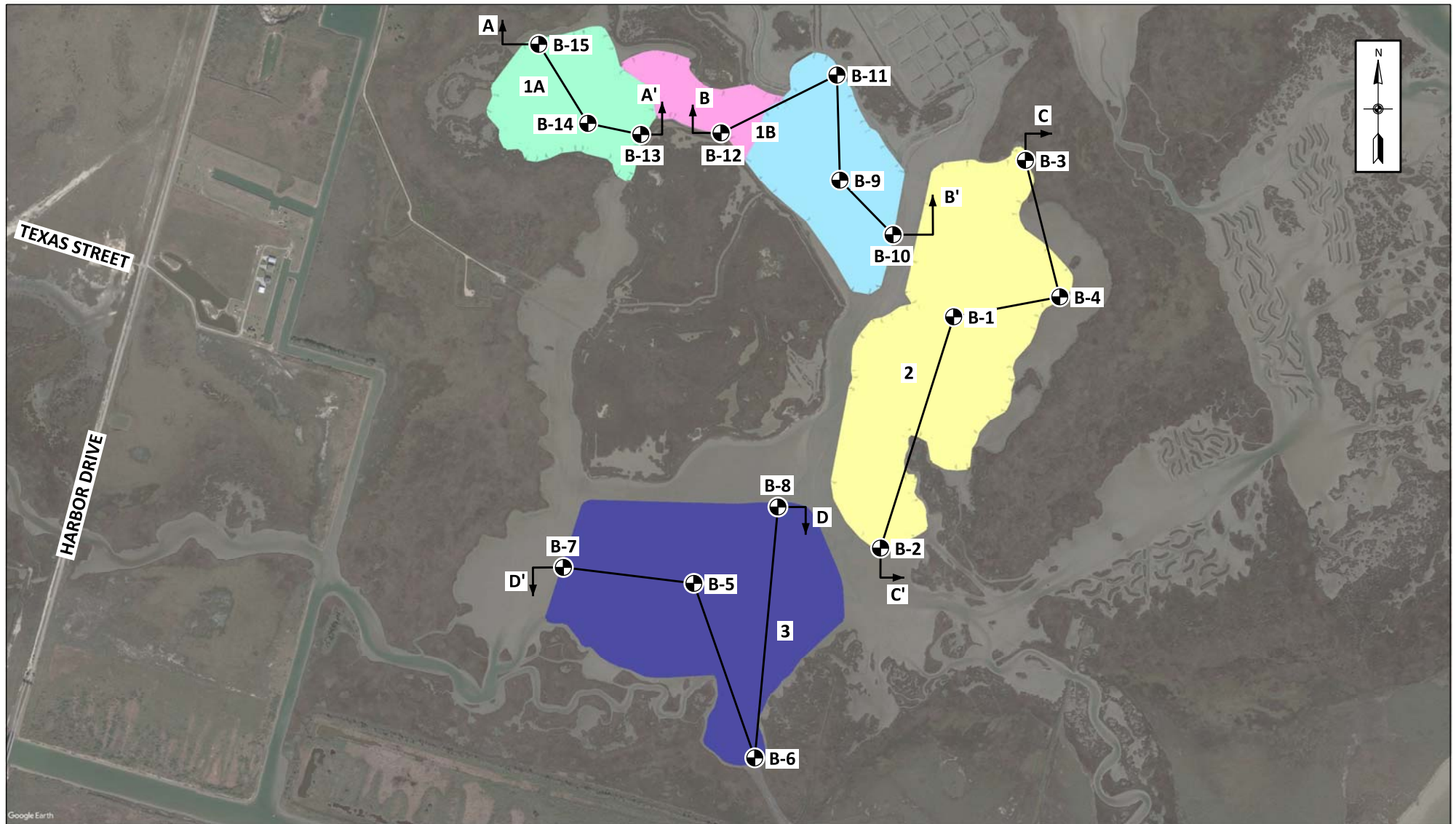
**Boring: B-7**

**Project No:** H0048  
**Date:** 07/18/2022  
**Latitude:** 29.30798°  
**Longitude:** -94.97175°

**Water Depth:** See Text  
**Total Depth:** 40.0 ft

Scale in Feet	PP	SPT	SPLR	Symbol	Visual Classification	USC	Sample Number	Depth in Feet	Water Content %	Density		Shear Tests			Atterberg Limits			Other Tests
										Dry pcf	Wet pcf	Type	φ	C psf	LL	PL	PI	
0					Moist, soft gray & tan FAT CLAY w/few fine sand pockets	CH	1A	0	45									
	1.00						1B	1	35									
					Moist, stiff tan & light gray FAT CLAY w/few concretions	CH	2A	2	24						57	19	38	
5	1.00						NS	3										
							3A	4	23									
	1.00						3B	5	23									
							4A	6	30									
	1.00				w/trace of fine sand pockets & concretions		4B	7	27	97	124	OB	0	1211				
						CH	5A	8	28									
10	1.00				Moist, stiff gray & reddish-tan FAT CLAY w/trace of concretions		5B	9	26									
							6A	10	32									
	1.00				Moist, soft tan & gray FAT CLAY w/few gravel	CH	6B	11	29									
						CH	7A	12	31									
	1.00				Moist, stiff reddish-tan FAT CLAY w/trace of fine sand pockets & concretions		7B	13	30									
15	1.00						8A	14	26									
							8B	15	25						77	20	57	
	1.00				Moist, medium stiff tan & gray FAT CLAY w/few fine gravel	CH	9A	16	29	94	122	OB	0	282				
						CH	9B	17	33									
20	0.50				Moist, soft reddish-tan & gray FAT CLAY w/few concretions		10A	18	33									
							10B	19	34									
25	1.00				Moist, soft tan FAT CLAY w/few fine sand pockets	CH	11A	23	23	104	128	OB	0	392				
					Moist, medium stiff to stiff reddish-tan & gray FAT CLAY w/few fine sand pockets & lenses	CH	11B	24	31									
30	1.00						12A	28	28									
					w/concretions		12B	29	27									
35	1.00						13A	33	30	100	125	OB	0	1094				
							13B	34	25									
40	0.50				Moist, medium stiff tan & gray LEAN CLAY	CL	14A	38	31						40	19	21	
							14B	39	28									
45																		
50																		

NOTES: Boring 7 was drilled in 1 ft. of water.



SATELLITE IMAGERY DATED: JANUARY 2022

NOT TO SCALE

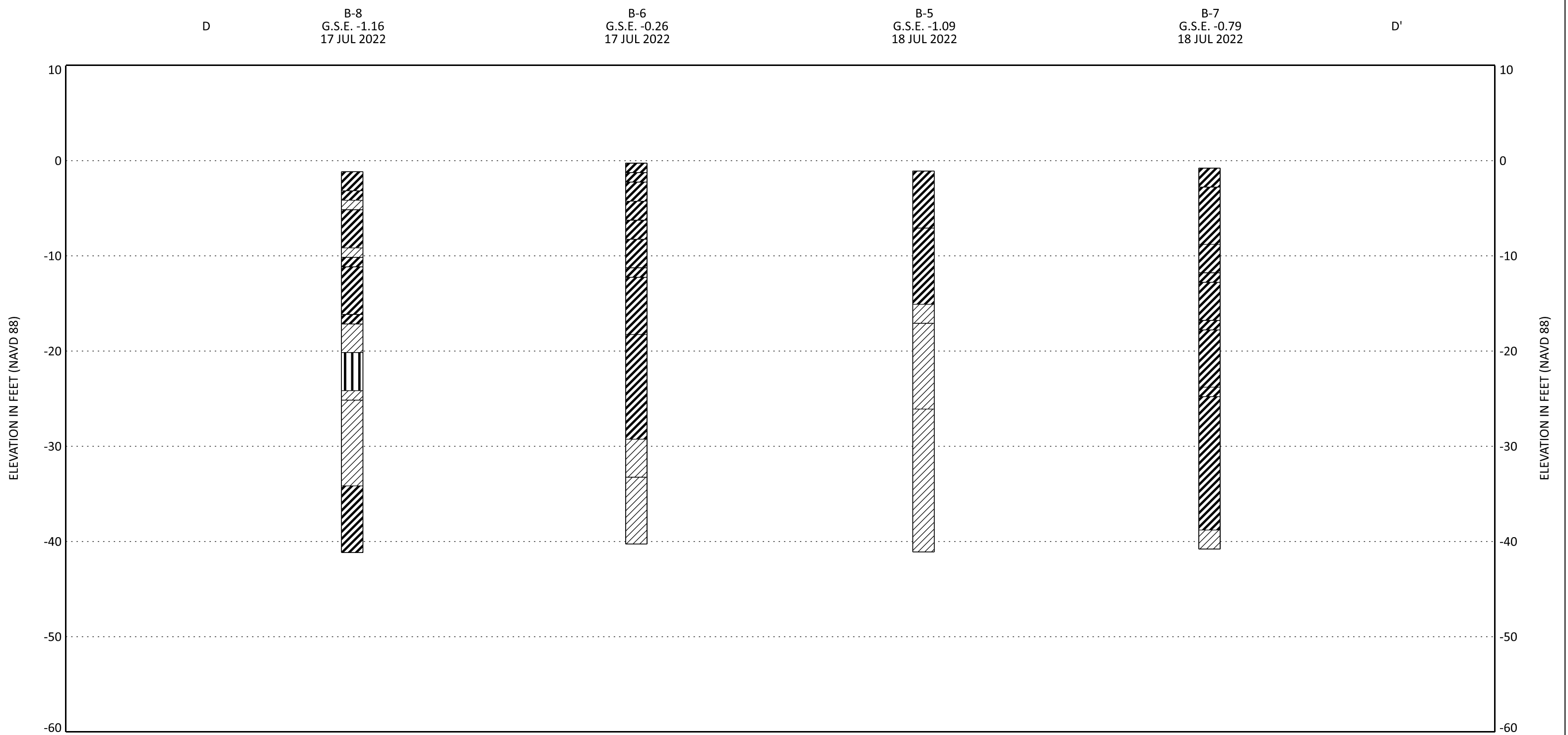
⊙ DENOTES APPROXIMATE LOCATIONS OF SOIL BORINGS DRILLED BETWEEN 11 AND 18 JULY 2022

#### BORING LOCATION PLAN

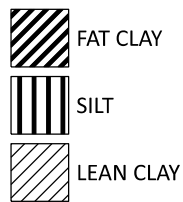
PHASE 1  
DUCKS UNLIMITED, INC.  
PIERCE MARSH BENEFICIAL USE MARSH CREATION  
NORTH OF WEST BAY NEAR GALVESTON ISLAND  
GALVESTON COUNTY, TEXAS  
DU CONTRACT NO. TX-0-2  
DU PROJECT NO. TX-194-4  
DU TASK ORDER NO. 1



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



## BORING MATERIAL GRAPHICS



NOTE:

1. G.S.E. = GROUND SURFACE ELEVATION

SUBSURFACE SOIL PROFILE  
MCA-3  
PHASE 1  
DUCKS UNLIMITED, INC.  
PIERCE MARSH BENEFICIAL USE MARSH CREATION  
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DRAWN BY: S.T.S.

JOB NO.: H0048

CHECKED BY: H.C.W.

DATE: 23 AUG 2022
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



CADD FILE:  
PROFILE.DGN

FIGURE 3  
(SHEET 4 OF 4)

PP Pocket penetrometer: Resistance in tons per square foot

SPT Standard Penetration Test: Number of blows of a 140-lb hammer dropped 30 inches required to 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.

SPLR Type of Sampling  Shelby  SPT  Auger  Vibracore  Geoprobe  No sample

SYMBOL Clay  Silt  Sand  Peat/Humus  Shells  Stone/Gravel   
Predominant type shown heavy; modifying type shown light

USC Unified Soil Classification

DENSITY Unit weight in pounds per cubic foot

#### SHEAR TESTS

##### TYPE

UC Unconfined compression shear

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

UU Unconsolidated undrained triaxial compression shear

$\phi$  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.