Boring Designation JCVC-18-10

DRILLING LOG

DIVISION

INSTALLATION

SHEET 1 OF 1 SHEETS

1. PROJECT
McFaddin NWR Beach Ridge Restoration
Jefferson County, Texas

APTIM

9. SIZE AND TYPE OF BIT 3.0 In.

10. COORDINATE SYSTEM/DATUM: Texas South Central | HORIZONTAL: NAD 1983 | VERTICAL: NAVD88

2. BORING DESIGNATION: JCVC-18-10
LOCATION COORDINATES (ft): X = 3,471,096 Y = 13,787,593

11. MANUFACTURER'S DESIGNATION OF DRILL: APTIM SEAS VC-700 Vibracore
☐ AUTO HAMMER ☐ MANUAL HAMMER

3. DRILLING AGENCY: APTIM
CONTRACTOR FILE NO.:

12. TOTAL SAMPLES | DISTURBED | UNDISTURBED (UD)

4. NAME OF DRILLER: Francis Stankiewicz

13. TOTAL NUMBER CORE BOXES

5. DIRECTION OF BORING: ☒ VERTICAL ☐ INCLINED
DEG. FROM VERTICAL | BEARING

14. ELEVATION GROUND WATER

15. DATE BORING: STARTED 05-21-18 16:01 | COMPLETED 05-21-18 16:15

6. THICKNESS OF OVERBURDEN: 0.0 Ft.

16. ELEVATION TOP OF BORING: -21.3 Ft.

7. DEPTH DRILLED INTO ROCK: 0.0 Ft.

17. TOTAL RECOVERY FOR BORING: 19 Ft.

8. TOTAL DEPTH OF BORING: 17.9 Ft.

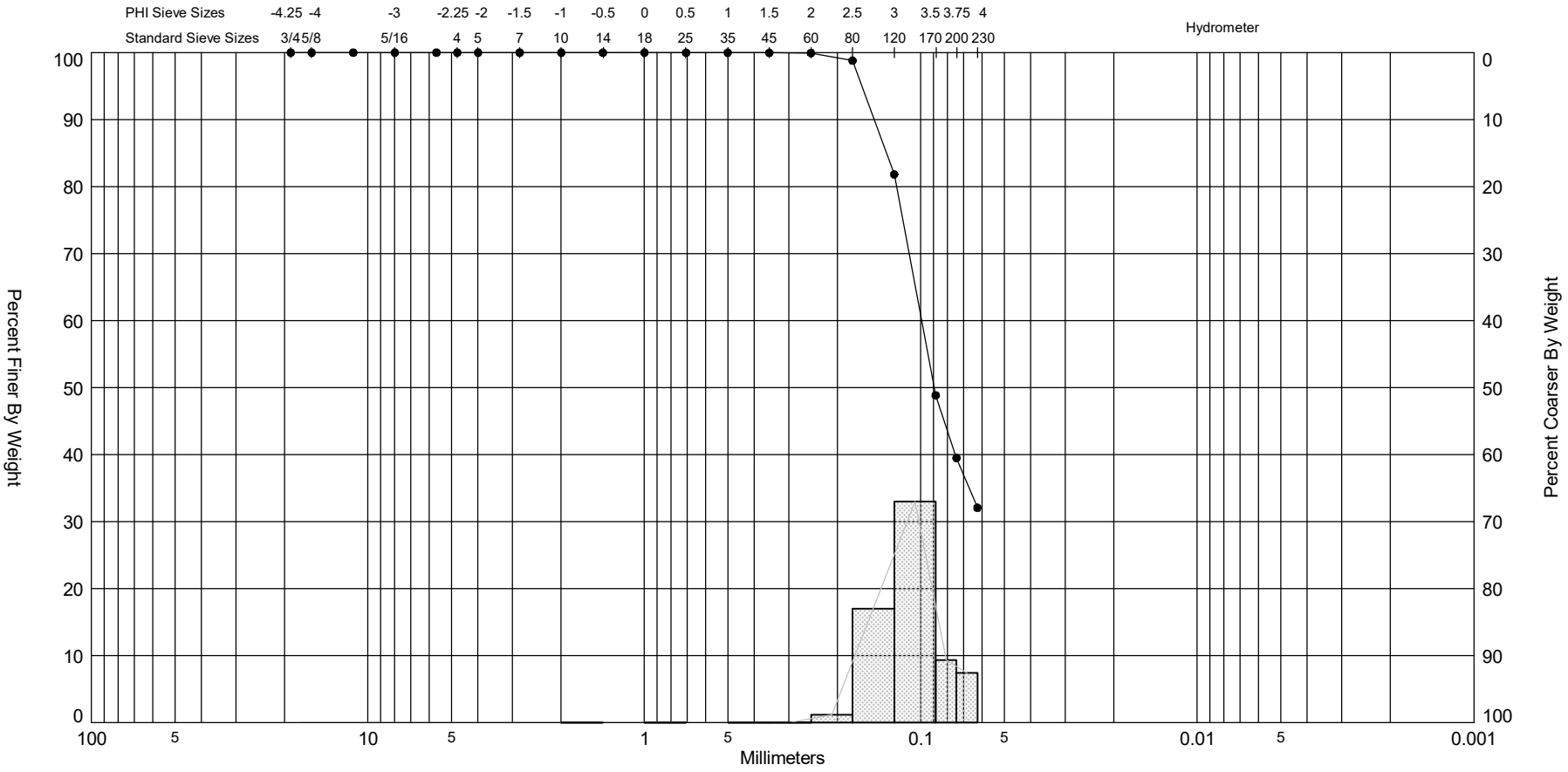
18. SIGNATURE AND TITLE OF INSPECTOR: KM

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-21.3	0.0					
-21.6	0.3		Clayey SAND, fine grained, quartz, trace shell fragments, trace shell hash, shell fragments up to (0.75" x 0.5"), 2.0" rock pocket @ 0.2' with rocks up to 1.25", light olive brown (2.5Y-5/4), (SC).		T1	Sample #T1, Depth = 1.0' Ave. Field Vane (tsf): 0.72
-22.9	1.6		CLAY, 1.5" silty pocket @ 0.5', light olive brown (2.5Y-5/3), (CL).		1	Sample #1, Depth = 2.7' Mean (mm): 0.11, Phi Sorting: 0.38 Fines (230): 32.05% (SC)
-25.1	3.8		SAND, fine grained, quartz, some clay, light yellowish brown (2.5Y-6/3), (SC).			
-25.4	4.1		SILT, some clay, little sand, 0.25" rock @ 4.1', gray (2.5Y-5/1), (ML).			
-27.0	5.7		CLAY, 2.0" silty pocket @ 5.0', 0.5" rock @ 5.6', light olive brown (2.5Y-5/4), (CL).		T2	Sample #T2, Depth = 4.8' Ave. Field Vane (tsf): 0.67
-32.8	11.5		CLAY, trace rock, rocks up to (0.5" x 0.25"), olive brown (2.5Y-4/3), (CL).		T3	Sample #T3, Depth = 8.8' Ave. Field Vane (tsf): 0.80
-39.1	17.8		CLAY, color is mottled (5Y-5/2) and, dark greenish gray (10Y-4/1), (CL).		T4	Sample #T4, Depth = 14.8' Ave. Field Vane (tsf): 0.85
-40.3	19.0		Silty CLAY, 1.5" rock pocket @ 17.9' with rocks up to 1.0", Bit Sample from 18.5' to 19.0', greenish gray (10Y-5/1), (CL).		T5	Sample #T5, Depth = 18.3' Ave. Field Vane (tsf): 0.67
			End of Boring			

0 5 10 15 20

MCFADDIN_2018_VC.GPJ 8/3/18

SAJ FORM 1836
JUN 04



Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort
JCVC-18-10 #1	—●—	-24.0	SC	#200 - 39.50 #230 - 32.05			3.48	3.23	-0.36	4.98	0.38

Comments:

Depths and elevations based on measured values

APTIM

APTIM
2481 NW Boca Raton Blvd.
Boca Raton, FL 33431
ph (561) 391-8102

Sample Information	
Project Name:	McFaddin NWR Beach Ridge Restoration
Analysis Date:	06-25-18
Analyzed By:	SP
Easting (X, ft):	3,471,096
Northing (Y, ft):	13,787,593
Horizontal Datum:	NAD 1983
Vertical Datum:	NAVD88

MCFADDIN_2018_VC.GPJ 8/14/18

Granularmetric Report

Depths and elevations based on measured values

Project Name: McFaddin NWR Beach Ridge Restoration

Sample Name: JCVC-18-10 #1

Analysis Date: 06-25-18

Analyzed By: SP

APTIM
2481 NW Boca Raton Blvd.
Boca Raton, FL 33431
ph (561) 391-8102

Easting (ft):	Northing (ft):	Coordinate System:	Elevation (ft):
3,471,096	13,787,593	Texas South Central	-24.0 NAVD88

USCS:	Munsell:	Comments:
SC	Wet - 2.5Y-6/3 Dry - 2.5Y-7/3 Washed - 2.5Y-8/1	

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shell Hash (%):
93.52	70.41	6.82	0.04	#200 - 39.50 #230 - 32.05			

Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00
3.5	-2.50	5.66	0.00	0.00	0.00	0.00
4	-2.25	4.76	0.00	0.00	0.00	0.00
5	-2.00	4.00	0.00	0.00	0.00	0.00
7	-1.50	2.83	0.00	0.00	0.00	0.00
10	-1.00	2.00	0.00	0.00	0.00	0.00
14	-0.50	1.41	0.01	0.01	0.01	0.01
18	0.00	1.00	0.00	0.00	0.01	0.01
25	0.50	0.71	0.01	0.01	0.02	0.02
35	1.00	0.50	0.00	0.00	0.02	0.02
45	1.50	0.35	0.01	0.01	0.03	0.03
60	2.00	0.25	0.02	0.02	0.05	0.05
80	2.50	0.18	1.08	1.15	1.13	1.20
120	3.00	0.13	15.88	16.98	17.01	18.18
170	3.50	0.09	30.83	32.97	47.84	51.15
200	3.75	0.07	8.74	9.35	56.58	60.50
230	4.00	0.06	6.97	7.45	63.55	67.95

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
			3.48	3.10	2.94	2.61

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	3.23	0.11	0.38	-0.36	4.98

MCFADDIN_2018_VC.GPJ 8/14/18


APTIM
MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-10
0.0'- 2.0'


APTIM
MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-10
2.0'- 4.0'


APTIM
MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-10
4.0'- 6.0'


APTIM
MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-10
6.0'- 8.0'


APTIM
MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-10
8.0'-10.0'


APTIM
MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-10
10.0'-12.0'


APTIM
MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-10
12.0'-14.0'


APTIM
MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-10
14.0'-16.0'


APTIM
MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-10
16.0'-18.0'


APTIM
MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-10
18.0'-19.0'