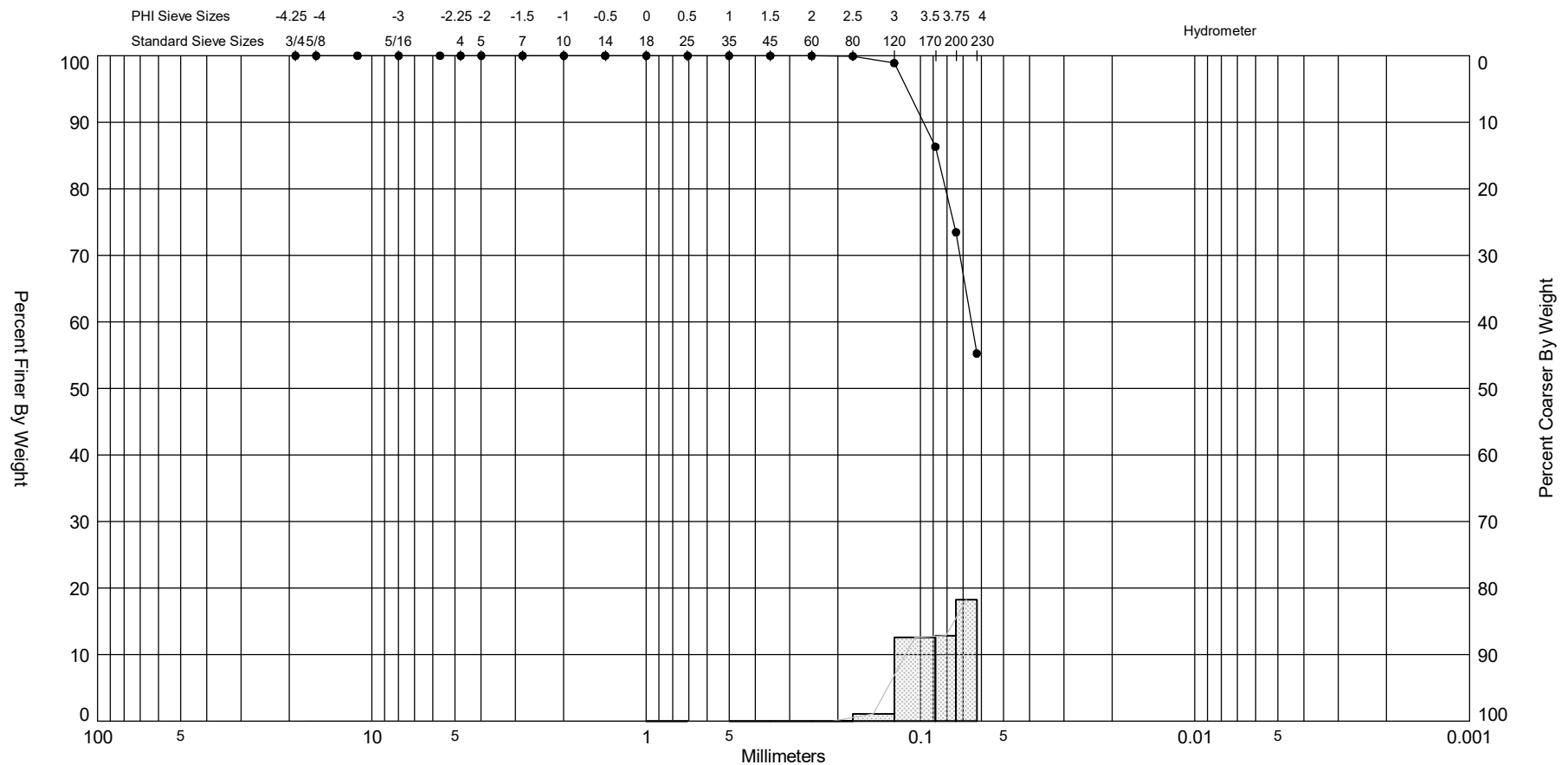


DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 1 SHEETS	
1. PROJECT McFaddin NWR Beach Ridge Restoration Jefferson County, Texas				9. SIZE AND TYPE OF BIT 3.0 In.			
2. BORING DESIGNATION JCVC-18-06				10. COORDINATE SYSTEM/DATUM Texas South Central		HORIZONTAL NAD 1983	
3. DRILLING AGENCY APTIM				11. MANUFACTURER'S DESIGNATION OF DRILL APTIM SEAS VC-700 Vibracore		VERTICAL NAVD88	
4. NAME OF DRILLER Francis Stankiewicz				12. TOTAL SAMPLES			
5. DIRECTION OF BORING ☒ VERTICAL ☐ INCLINED				13. TOTAL NUMBER CORE BOXES			
6. THICKNESS OF OVERBURDEN 0.0 Ft.				14. ELEVATION GROUND WATER			
7. DEPTH DRILLED INTO ROCK 0.0 Ft.				15. DATE BORING 05-21-18 18:35			
8. TOTAL DEPTH OF BORING 14.8 Ft.				16. ELEVATION TOP OF BORING -19.9 Ft.			
				17. TOTAL RECOVERY FOR BORING 17.7 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	
-19.9	0.0						
-20.9	1.0		CLAY, soft to firm, trace shell hash, olive brown (2.5Y-4/4), (CL).		T1	Sample #T1, Depth = 0.5' Ave. Field Vane (tsf): 0.62	
-24.2	4.3		CLAY, trace rock, rocks up to 0.25", (1.0" x 0.75") rock @ 1.7', yellowish brown (10YR-5/4), (CL).		T2	Sample #T2, Depth = 2.7' Ave. Field Vane (tsf): 0.67	
-25.6	5.7		Sandy CLAY, yellowish brown (10YR-5/4), (CL).		1	Sample #1, Depth = 5.0' Mean (mm): 0.08, Phi Sorting: 0.30 Fines (230): 55.25% (CL)	
-32.6	12.7		CLAY, trace rock, rocks up to 1.0", grayish brown (2.5Y-5/2), (CL).		T3	Sample #T3, Depth = 9.2' Ave. Field Vane (tsf): 0.80	
-37.6	17.7		CLAY, trace organics, trace rock, rocks up to 1.0", Bit Sample from 17.3' to 17.7', light olive brown (2.5Y-5/3), (CL).		T4	Sample #T4, Depth = 15.2' Ave. Field Vane (tsf): 1.00	
			End of Boring				



Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JCVC-18-06 #1	—●—	-24.9	CL	#200 - 73.47 #230 - 55.25				3.6	-1.24	7.77	0.3	Project Name:	McFaddin NWR Beach Ridge Restoration
Comments:												Analysis Date:	06-25-18
Depths and elevations based on measured values												Analyzed By:	SP
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	3,470,077
												Northing (Y, ft):	13,787,989
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

Granularmetric Report Depths and elevations based on measured values				 APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102			
Project Name: McFaddin NWR Beach Ridge Restoration							
Sample Name: JCVC-18-06 #1							
Analysis Date: 06-25-18							
Analyzed By: SP							
Easting (ft): 3,470,077		Northing (ft): 13,787,989		Coordinate System: Texas South Central		Elevation (ft): -24.9 NAVD88	
USCS: CL		Munsell: Wet - 10YR-5/4 Dry - 10YR-6/4 Washed - 10YR-7/2		Comments:			
Dry Weight (g): 94.35	Wash Weight (g): 57.04	Pan Retained (g): 14.80	Sieve Loss (%): 0.02	Fines (%): #200 - 73.47 #230 - 55.25	Organics (%):	Carbonates (%):	Shell Hash (%):
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	0.00	0.00	0.00	0.00	
18	0.00	1.00	0.00	0.00	0.00	0.00	
25	0.50	0.71	0.01	0.01	0.01	0.01	
35	1.00	0.50	0.00	0.00	0.01	0.01	
45	1.50	0.35	0.01	0.01	0.02	0.02	
60	2.00	0.25	0.01	0.01	0.03	0.03	
80	2.50	0.18	0.03	0.03	0.06	0.06	
120	3.00	0.13	0.99	1.05	1.05	1.11	
170	3.50	0.09	11.86	12.57	12.91	13.68	
200	3.75	0.07	12.12	12.85	25.03	26.53	
230	4.00	0.06	17.19	18.22	42.22	44.75	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
				3.72	3.55	3.15	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	3.6	0.08	0.3	-1.24	7.77		



MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-06
0.0' - 2.0'



MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-06
2.0' - 4.0'



MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-06
4.0' - 6.0'



MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-06
6.0' - 8.0'





MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-06
8.0'-10.0'



MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-06
10.0'-12.0'



MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-06
12.0'-14.0'



MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-06
14.0'-16.0'





MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-06
16.0'-17.7'

