

APPENDIX OVERVIEW

Introduction: These appendices contain the geotechnical data collected during the Currituck County Beach Monitoring and Beach Stability Assessment. In 2020, 13 samples were collected from specifically defined locations along nine profiles for a total of 117 samples. The beach sample data are provided in the form of composite summary tables, granulometric reports, and grain size distribution curves/histograms.

1) Beach Composite Summary Tables

Three summary tables are presented in this appendix. These tables are used to calculate and summarize beach composite data. The *Composite Summary* table is a summary of key grain size data for all of the composites, including the total beach. The *Cumulative Percents and Computed Composite Distributions for Elevations* and the *Cumulative Percents and Computed Composite Distributions for C-Stations* tables show the supporting individual sieve data used in the calculation of each elevation and range monument composite for Currituck Beach.

2) Individual Beach Granulometric Reports (Digital Copy Only)

This appendix contains individual granulometric reports for each of the beach samples.

3) Individual Beach Grain Size Distribution Curves/Histograms (Digital Copy Only)

This appendix contains individual grain size distribution curves/histograms for each of the beach samples.

4) Beach Composite Granulometric Reports (Digital Copy Only)

Composite granulometric reports, corresponding to data presented in the tables in Appendix 1, are included here. Granulometric reports are presented for the Currituck Beach total beach, each C-Station line and each elevation.

5) Beach Composite Grain Size Distribution Curves/Histograms (Digital Copy Only)

Composite grain size distribution curves and histograms, corresponding to the data presented in the Appendix 1 tables, are included here. Curves and histograms are presented for the Currituck Beach total beach, each C-Station line and each elevation.

APPENDIX 1
BEACH COMPOSITE SUMMARY TABLES

**COMPOSITE SUMMARY TABLE
CURRITUCK BEACH
2020 BEACH SAMPLES**

SAMPLE I.D.	PHI Median	Median (mm)	MEAN (mm)	PHI MEAN	PHI SORTING	% FINES ¹	% CARBONATE	WET MUNSELL VALUE	DRY MUNSELL VALUE	WASHED MUNSELL VALUE
C-002 COMPOSITE	2.51	0.18	0.21	2.22	0.99	1.30	ND	4	6	7
C-017 COMPOSITE	2.65	0.16	0.18	2.48	0.75	1.76	ND	4	7	7
C-031 COMPOSITE	2.54	0.17	0.18	2.44	0.68	1.43	ND	4	7	7
C-046 COMPOSITE	2.39	0.19	0.20	2.29	0.82	1.73	ND	4	7	7
C-061 COMPOSITE	2.46	0.18	0.20	2.34	0.85	1.74	ND	4	7	7
C-075 COMPOSITE	2.32	0.20	0.21	2.26	0.72	2.20	ND	5	7	7
C-090 COMPOSITE	2.52	0.17	0.22	2.19	1.25	2.44	ND	4	7	7
C-105 COMPOSITE	2.44	0.18	0.26	1.96	1.45	2.03	ND	4	7	7
C-120 COMPOSITE	2.25	0.21	0.26	1.94	1.19	1.19	ND	4	7	7
DUNE COMPOSITE	2.18	0.22	0.23	2.15	0.46	0.15	ND	5	7	7
TOE OF DUNE COMPOSITE	2.07	0.24	0.24	2.05	0.51	0.19	ND	5	7	7
MID BERM COMPOSITE	2.07	0.24	0.25	1.99	0.57	0.45	ND	5	7	7
MHW COMPOSITE	1.89	0.27	0.32	1.65	1.07	0.99	ND	5	7	8
MTL COMPOSITE	1.73	0.30	0.41	1.27	1.43	0.87	ND	5	7	7
MLW COMPOSITE	1.47	0.36	0.50	1.01	1.42	0.98	ND	4	7	7
TROUGH COMPOSITE	2.69	0.16	0.17	2.58	0.55	4.47	ND	4	7	7
BAR COMPOSITE	2.65	0.16	0.17	2.55	0.65	1.30	ND	4	7	7
-12 NAVD COMPOSITE	2.64	0.16	0.17	2.53	0.66	1.32	ND	4	7	7
-14 NAVD COMPOSITE	2.75	0.15	0.16	2.67	0.67	1.77	ND	4	7	7
-16 NAVD COMPOSITE	2.89	0.14	0.14	2.87	0.47	2.35	ND	4	7	7
-18 NAVD COMPOSITE	2.98	0.13	0.13	2.90	0.61	3.64	ND	4	6	7
-20 NAVD COMPOSITE	3.04	0.12	0.14	2.89	0.74	4.36	ND	4	6	7
CURRITUCK BEACH TOTAL BEACH	2.45	0.18	0.21	2.23	1.02	1.76	ND	4	7	7
CAROVA (C-002, C-017)	2.59	0.17	0.20	2.35	0.89	1.53	ND	4	7	7
REFUGE/RESERVE (C-031, C-046)	2.46	0.18	0.19	2.36	0.76	1.57	ND	4	7	7
COROLLA (C-061, C-075, C-090)	2.42	0.19	0.21	2.26	0.97	2.12	ND	4	7	7
PINE ISLAND (C-105, C-120)	2.33	0.20	0.26	1.95	1.33	1.61	ND	4	7	7

¹ Defined as % passing the #230 sieve

CUMULATIVE PERCENTS AND COMPUTED COMPOSITE DISTRIBUTIONS FOR C-STATIONS CURRITUCK 2020 BEACH SAMPLES (2 of 2)

SAMPLE I.D. NAVD88 (FT)	ELEVATION (NAVD 88 FT)	PHI Median	Median (mm)	MEAN (mm)	PHI MEAN	PHI SORTING	% FINES	% CARBONATE	WET	DRY	WASHED	PHI SIZES														PAN										
									MUNSELL VALUE	MUNSELL VALUE	MUNSELL VALUE	-4.25	-4.0	-3.50	-3.0	-2.50	-2.25	-2.00	-1.50	-1.0	-0.5	0.0	0.5	1.0	1.5		2.0	2.5	3.0	3.5	3.75	4.0				
CCSS-20-C-075 Dune	16.3	2.12	0.23	0.23	2.13	0.39	0.1	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.15	2.39	39.25	84.94	98.09	99.64	99.85	99.90	100.00
CCSS-20-C-075 Toe of Dune	8	2.06	0.24	0.24	2.08	0.37	0.07	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.15	1.38	45.11	88.86	98.38	99.71	99.85	99.93	100.00
CCSS-20-C-075 Mid Berm	4.6	2.2	0.22	0.22	2.19	0.33	0.23	ND	5	7	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.46	25.60	86.37	98.41	99.59	99.74	99.77	100.00		
CCSS-20-C-075 MHW	1.3	2	0.25	0.25	2.02	0.42	1.06	ND	5	7	8	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.16	0.18	0.19	0.22	0.53	5.34	50.21	89.25	98.20	98.89	98.93	98.94	100.00					
CCSS-20-C-075 MTL	-0.4	2	0.25	0.25	1.98	0.7	0.94	ND	4	7	8	0.00	0.00	0.00	0.98	0.98	0.98	1.06	1.11	1.19	1.20	1.27	1.69	8.38	50.12	84.77	97.83	99.00	99.04	99.06	99.99					
CCSS-20-C-075 MLW	-2.2	1.72	0.3	0.34	1.56	0.96	1.33	ND	4	7	7	0.00	0.00	0.00	0.00	0.97	1.67	2.86	3.74	4.48	4.89	5.14	5.69	9.85	33.66	70.94	93.07	98.22	98.64	98.66	98.67	99.99				
CCSS-20-C-075 Trough	-13	2.49	0.18	0.21	2.26	0.65	15.75	ND	5	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.23	0.42	0.73	2.61	10.30	26.34	50.72	76.89	83.58	83.64	84.25	99.99					
CCSS-20-C-075 Bar	-10.1	2.54	0.17	0.18	2.49	0.57	0.96	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.21	0.46	0.63	0.82	1.44	3.92	12.71	46.99	84.45	98.29	98.90	99.04	99.99					
CCSS-20-C-075 -12 NAVD	-12	2.45	0.18	0.19	2.38	0.58	0.89	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.17	0.28	0.39	0.53	1.36	5.89	20.81	53.45	89.70	98.21	98.28	99.11	99.97					
CCSS-20-C-075 -14 NAVD	-14.3	2.45	0.18	0.21	2.23	1.1	1.05	ND	4	7	7	0.00	0.00	1.38	1.38	1.38	1.38	1.64	2.54	3.65	4.40	4.88	5.33	6.31	8.90	17.50	53.62	89.63	98.43	98.81	98.95	99.97				
CCSS-20-C-075 -16 NAVD	-16.2	2.71	0.15	0.16	2.64	0.59	1.3	ND	4	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.70	0.97	1.14	1.26	1.32	1.41	1.59	3.82	25.05	84.08	97.81	97.83	98.70	99.97				
CCSS-20-C-075 -18 NAVD	-18.2	2.64	0.16	0.17	2.57	0.68	1.53	ND	4	7	7	0.00	0.00	0.00	0.92	0.92	0.92	0.92	0.92	0.96	0.97	0.99	1.02	1.05	1.19	2.39	36.49	85.10	97.45	98.20	98.47	99.99				
CCSS-20-C-075 -20 NAVD	-20.1	2.9	0.13	0.13	2.89	0.45	3.41	ND	4	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.08	0.09	0.12	0.14	0.21	0.30	0.63	2.75	10.96	59.45	92.76	98.27	98.59	99.99				
C-075 COMPOSITE		2.32	0.20	0.21	2.26	0.72	2.20	ND	5	7	7	0.00	0.00	0.11	0.25	0.33	0.38	0.53	0.71	0.91	1.07	1.17	1.32	2.06	6.46	28.27	61.89	89.11	97.08	97.28	97.80	99.99				
CCSS-20-C-090 Dune	16	2.23	0.21	0.21	2.23	0.36	0.11	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.06	1.83	22.89	81.31	98.26	99.77	99.86	99.89	99.98					
CCSS-20-C-090 Toe of Dune	9.4	2.18	0.22	0.22	2.17	0.36	0.08	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.89	30.59	85.24	98.61	99.77	99.83	99.92	100.00					
CCSS-20-C-090 Mid Berm	5.6	1.95	0.26	0.25	1.98	0.47	0.42	ND	4	7	7	0.00	0.00	0.00	0.00	0.00	0.12	0.20	0.26	0.43	0.46	0.50	0.83	7.62	54.42	91.86	96.86	99.25	99.53	99.58	99.98					
CCSS-20-C-090 MHW	1.2	1.58	0.33	0.56	0.83	1.7	0.99	ND	4	7	7	0.00	0.00	0.00	0.70	1.77	3.92	6.02	14.69	23.95	29.77	32.17	33.64	37.27	47.25	65.46	89.20	98.21	98.99	99.01	99.01	99.10	100.00			
CCSS-20-C-090 MTL	-0.4	1.56	0.34	0.62	0.69	1.89	0.83	ND	4	7	7	0.00	0.00	0.00	2.18	3.89	6.24	10.05	19.26	29.16	35.26	37.42	38.87	41.76	48.22	62.80	82.74	97.32	99.12	99.16	99.17	99.99				
CCSS-20-C-090 MLW	-2.2	1.84	0.28	0.42	1.26	1.54	1.01	ND	4	7	7	0.00	0.00	1.39	2.14	2.74	3.69	5.04	9.03	14.47	17.88	19.29	20.19	22.47	32.36	58.53	90.04	98.28	98.97	98.99	98.99	100.00				
CCSS-20-C-090 Trough	-13	2.77	0.15	0.15	2.72	0.48	4.14	ND	4	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.33	0.42	0.50	0.66	1.24	4.23	22.05	74.37	94.05	95.30	95.86	99.99					
CCSS-20-C-090 Bar	-11.1	2.75	0.15	0.18	2.5	1.19	2.03	ND	4	7	7	0.00	0.00	1.96	2.47	2.47	2.47	2.59	2.88	3.42	3.98	4.37	4.54	5.08	6.01	8.39	20.50	80.13	96.60	97.23	97.97	99.99				
CCSS-20-C-090 -12 NAVD	-12.2	2.84	0.14	0.14	2.8	0.5	1.36	ND	4	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.15	0.42	0.58	0.74	1.03	1.73	3.76	14.39	67.53	96.68	98.19	98.64	99.99					
CCSS-20-C-090 -14 NAVD	-14.2	2.67	0.16	0.17	2.52	0.79	1.94	ND	4	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1.42	2.30	2.70	2.94	3.74	5.80	11.16	33.05	81.68	96.18	96.44	98.06	99.98					
CCSS-20-C-090 -16 NAVD	-16.1	2.97	0.13	0.13	2.93	0.52	3.82	ND	4	7	7	0.00	0.00	0.00	0.00	0.10	0.10	0.14	0.41	0.50	0.55	0.57	0.60	0.65	0.74	1.36	7.48	52.71	91.33	94.70	96.18	99.95				
CCSS-20-C-090 -18 NAVD	-18.2	2.87	0.14	0.14	2.87	0.46	5.81	ND	4	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.11	0.15	0.22	0.26	0.30	0.40	0.74	1.75	10.71	63.77	89.00	89.79	94.19	99.98				
CCSS-20-C-090 -20 NAVD	-20.2	3.23	0.11	0.11	3.13	0.45	9.19	ND	4	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.09	0.14	0.17	0.22	0.29	0.50	1.37	5.19	26.91	76.62	85.38	90.81	99.98				
C-090 COMPOSITE		2.52	0.17	0.22	2.19	1.25	2.44	ND	4	7	7	0.00	0.00	0.26	0.58	0.84	1.26	1.85	3.64	5.67	7.02	7.57	7.93	8.79	11.92	25.13	48.75	79.59	95.10	96.42	97.56	99.99				
CCSS-20-C-105 Dune	15.8	2.2	0.22	0.22	2.18	0.34	0.1	ND	5	7	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08	1.19	26.53	86.03	99.11	99.86	99.89	99.90	100.00					
CCSS-20-C-105 Toe of Dune	8.9	1.96	0.26	0.26	1.97	0.4	0.19	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.10	0.16	0.66	8.45	53.53	92.68	99.35	99.75	99.79	99.81	99.99				
CCSS-20-C-105 Mid Berm	4.8	2	0.25	0.26	1.92	0.59	0.4	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.38	0.64	1.00	1.23	1.73	3.73	17.40	49.89	89.24	99.12	99.58	99.60	99.60	100.00				
CCSS-20-C-105 MHW	1.2	1.31	0.4	0.6	0.73	1.52	0.93	ND	4	6	7	0.00	0.00	0.00	0.00	1.22	2.22	3.78	9.86	19.80	29.99	34.27	36.30	40.84	55.47	76.03	94.04	98.77	99.05	99.07	99.07	99.97				
CCSS-20-C-105 MTL	-0.4	-1.17	2.25	1.61	-0.69	1.74	0.57	ND	4	6	7	0.00	0.00	0.00	5.22	11.94	16.84	24.84	39.39	55.44	67.37	70.64	71.66	73.55	78.64	88.65	96.92	99.36	99.43	99.43	99.43	99.99				
CCSS-20-C-105 MLW	-2.3	0.36	0.78	0.81	0.3	1.82	0.64	ND	4	6	7	0.00	0.00	0.00	0.81	3.89	6.75	9.86	20.44	34.36	45.84	49.19	50.33	52.22	58.60	70.72	90.77	98.90	99.35	99.35	99.36	99.98				
CCSS-20-C-105 Trough	-13.9	2.69	0.16	0.16	2.64	0.47	2.07	ND	4	7	7	0.00	0.00	0.00	0.00	0.09	0.09	0.09	0.10	0.20	0.32	0.38	0.42	0.51	1.04	4.52	29.30	83.56	96.64	97.10	97.93	99.99				
CCSS-20-C-105 Bar	-10.7	2.82	0.14	0.15	2.76	0.53	1.37	ND	4	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.19	0.45	0.65	0.80	1.10	1.97	5.11										

**CUMULATIVE PERCENTS AND COMPUTED COMPOSITE DISTRIBUTIONS FOR ELEVATIONS
CURRITUCK 2020 BEACH SAMPLES (1 of 2)**

SAMPLE I.D. NAVD88 (FT)	ELEVATION (NAVD 88 FT)	PHI Median	Median (mm)	MEAN (mm)	PHI MEAN	PHI SORTING	% FINES	% CARBONATE	WET			DRY			WASHED			PHI SIZES							PAN								
									MUNSELL VALUE	MUNSELL VALUE	MUNSELL VALUE	MUNSELL VALUE	MUNSELL VALUE	MUNSELL VALUE	MUNSELL VALUE	MUNSELL VALUE	-4.25	-4.0	-3.50	-3.0	-2.50	-2.25	-2.00	-1.50		-1.0	-0.5	0.0	0.5	1.0	1.5	2.0	2.5
CCSS-20-C-002 Dune	14.8	2.21	0.22	0.22	2.19	0.47	0.14	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.08	0.83	6.33	30.52	77.86	96.13	99.58	99.79	99.86	100.00
CCSS-20-C-017 Dune	13.5	2.36	0.19	0.20	2.34	0.45	0.18	ND	5	7	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.49	4.39	18.36	61.81	96.13	99.46	99.72	99.82	99.99
CCSS-20-C-031 Dune	12.6	2.27	0.21	0.21	2.26	0.45	0.16	ND	5	7	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.15	4.49	27.59	68.53	96.99	99.63	99.76	99.84	99.97	
CCSS-20-C-046 Dune	14.6	2.20	0.22	0.21	2.22	0.46	0.12	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.03	0.03	2.69	35.04	72.45	95.55	99.40	99.70	99.88	99.99
CCSS-20-C-061 Dune	16.5	1.92	0.26	0.27	1.88	0.49	0.14	ND	5	7	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	3.34	22.78	55.53	92.22	99.33	99.79	99.84	99.86	100.00	
CCSS-20-C-075 Dune	16.3	2.12	0.23	0.23	2.13	0.39	0.10	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	2.39	39.25	84.94	98.09	99.64	99.85	99.90	100.00	
CCSS-20-C-090 Dune	16.0	2.23	0.21	0.21	2.23	0.36	0.11	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.06	1.83	22.89	81.31	98.26	99.77	99.86	99.89	99.98
CCSS-20-C-105 Dune	15.8	2.20	0.22	0.22	2.18	0.34	0.10	ND	5	7	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08	1.19	26.53	86.03	99.11	99.86	99.89	99.90	100.00	
CCSS-20-C-120 Dune	15.3	1.98	0.25	0.26	1.94	0.52	0.29	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.29	0.65	1.43	3.22	14.73	51.67	89.40	99.27	99.67	99.69	99.71
DUNE COMPOSITE		2.18	0.22	0.23	2.15	0.46	0.15	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.08	0.19	0.91	6.76	34.15	79.39	97.65	99.64	99.79	99.85	99.99	
CCSS-20-C-002 Toe of Dune	8.2	1.72	0.30	0.31	1.71	0.53	0.14	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.05	0.79	8.73	32.70	71.76	94.61	99.14	99.81	99.85	99.86	99.98		
CCSS-20-C-017 Toe of Dune	8.4	2.20	0.22	0.23	2.14	0.61	0.37	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.14	3.71	16.59	37.94	68.36	95.63	99.16	99.85	99.86	100.00	
CCSS-20-C-031 Toe of Dune	9.3	2.15	0.23	0.23	2.11	0.48	0.34	ND	5	7	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.05	0.11	1.11	9.70	36.43	82.08	97.08	99.43	99.59	99.66	99.98
CCSS-20-C-046 Toe of Dune	10.5	2.27	0.21	0.21	2.28	0.40	0.14	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.05	1.30	22.44	73.29	96.39	99.51	99.79	99.86	100.00	
CCSS-20-C-061 Toe of Dune	7.9	2.17	0.22	0.22	2.21	0.53	0.08	ND	4	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.27	5.73	37.44	75.04	90.67	99.37	99.85	99.92	99.97	
CCSS-20-C-075 Toe of Dune	8.0	2.06	0.24	0.24	2.08	0.37	0.07	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.15	1.38	45.11	88.86	98.38	99.71	99.85	99.93	100.00	
CCSS-20-C-090 Toe of Dune	9.4	2.18	0.22	0.22	2.17	0.36	0.08	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.89	30.59	85.24	98.61	99.77	99.83	99.92	100.00	
CCSS-20-C-105 Toe of Dune	8.9	1.96	0.26	0.26	1.97	0.40	0.19	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.10	0.16	0.66	8.45	53.53	92.68	99.35	99.75	99.79	99.81	99.99		
CCSS-20-C-120 Toe of Dune	7.6	1.83	0.28	0.29	1.80	0.58	0.26	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	1.66	2.66	3.10	4.02	17.85	66.67	94.31	99.26	99.71	99.73	99.74	99.97
TOE OF DUNE COMPOSITE		2.07	0.24	0.24	2.05	0.51	0.19	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.20	0.33	0.49	2.08	10.51	44.66	83.83	97.17	99.58	99.72	99.81	99.99	
CCSS-20-C-002 Mid Berm	6.3	1.19	0.44	0.42	1.24	0.68	0.19	ND	5	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.12	0.33	1.83	11.22	41.16	65.04	85.35	96.50	99.55	99.78	99.80	99.81	99.98		
CCSS-20-C-017 Mid Berm	4.7	2.16	0.22	0.23	2.10	0.52	0.32	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	2.97	16.59	13.45	34.49	81.91	97.14	99.34	99.59	99.68	99.97	99.99			
CCSS-20-C-031 Mid Berm	5.1	2.13	0.23	0.23	2.11	0.44	0.35	ND	5	7	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.39	7.36	37.99	82.49	98.18	99.48	99.58	99.65	100.00		
CCSS-20-C-046 Mid Berm	3.2	2.15	0.23	0.23	2.12	0.47	0.92	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.67	9.31	36.54	80.71	96.83	98.91	99.04	99.08	100.00	
CCSS-20-C-061 Mid Berm	4.0	2.31	0.20	0.20	2.33	0.34	0.97	ND	5	7	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.08	14.71	71.10	97.39	98.90	99.00	99.03	99.98	
CCSS-20-C-075 Mid Berm	4.6	2.20	0.22	0.22	2.19	0.33	0.23	ND	5	7	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.46	25.60	86.37	98.41	99.59	99.74	99.77	100.00		
CCSS-20-C-090 Mid Berm	5.6	1.95	0.26	0.25	1.98	0.47	0.42	ND	4	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.20	0.26	0.43	0.46	0.50	0.83	7.62	54.42	91.86	96.86	99.25	99.53	99.58	99.98	
CCSS-20-C-105 Mid Berm	4.8	2.00	0.25	0.26	1.92	0.59	0.40	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.38	0.64	1.00	1.23	1.73	3.73	17.40	49.89	89.24	99.12	99.58	99.60	99.60	100.00	
CCSS-20-C-120 Mid Berm	3.6	1.94	0.26	0.26	1.93	0.43	0.44	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.15	1.29	14.31	54.46	92.66	99.28	99.55	99.55	99.96		
MID BERM COMPOSITE		2.07	0.24	0.25	1.99	0.57	0.45	ND	5	7	7	0.00	0.00	0.00	0.00	0.00	0.04	0.07	0.12	0.20	0.40	1.53	5.67	15.00	43.72	85.87	98.08	99.38	99.49	99.53	99.98		
CCSS-20-C-002 MHW	1.2	1.59	0.33	0.36	1.46	0.81	0.84	ND	5	7	7	0.00	0.00	0.00	0.94	0.94	0.94	0.94	0.95	0.98	1.31	2.38	8.45	24.16	44.29	74.89	96.03	98.94	99.14	99.15	99.16	100.00	
CCSS-20-C-017 MHW	1.3	2.14	0.23	0.23	2.11	0.53	1.01	ND	5	7	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.75	13.98	40.39	75.01	96.60	98.91	98.97	98.99	99.96	
CCSS-20-C-031 MHW	1.5	1.94	0.26	0.25	2.02	0.41	1.12	ND	5	7	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.69	56.46	84.62	97.70	98.84	98.87	98.88	99.98	
CCSS-20-C-046 MHW	1.3	2.16	0.22	0.23	2.12	0.57	1.16	ND	5	7	8	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.14	0.22	0.34	0.57	0.84	2.21	10.10	39.20	73.28	95.98	98.72	98.81	98.84	99.98	
CCSS-20-C-061 MHW	1.2	2.01	0.25	0.25	2.00	0.51	1.21	ND	5	7	8	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.29	0.29	0.29	0.31	0.34	0.89	10.93	49.24	85.88	97.55	98.74	98.78	98.79	99.99	
CCSS-20-C-075 MHW	1.3	2.00	0.25	0.25	2.02	0.42	1.06	ND	5	7	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.16	0.18	0.19	0.22	0.53	5.34	50.21	89.25	98.20	98.89	98.93	98.94	100.00
CCSS-20-C-090 MHW	1.2	1.58	0.33	0.36	0.83	1.70	0.99	ND	4	7	7	0.00	0.00	0.00	0.70	1.77	3.92	6.02	14.69	23.95	29.77	32.17	33.64	37.27	47.25	65.46	89.20	98.21	98.99	99.01	99.01	100.00	
CCSS-20-C-105 MHW	1.2	1.31	0.40	0.60	0.73	1.52	0.93	ND	4	6	7	0.																					

APPENDIX 2
INDIVIDUAL BEACH GRANULARMETRIC REPORTS
(Digital Copy Only)

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: Currituck Beach Monitoring 2020

Sample Name: C-002 Dune

Analysis Date: 05-27-20

Analyzed By: SF

Easting (ft): 2,920,181	Northing (ft): 1,032,729	Coordinate System: North Carolina State Plane	Elevation (ft): 14.8 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 10YR-7/2 Washed - 10YR-7/2	Comments:
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Dry Weight (g): 107.02	Wash Weight (g): 106.86	Pan Retained (g): 0.01	Sieve Loss (%): 0.00	Fines (%): #200 - 0.21 #230 - 0.14	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.03	0.03	0.03	0.03
25	0.50	0.71	0.05	0.05	0.08	0.08
35	1.00	0.50	0.80	0.75	0.88	0.83
45	1.50	0.35	5.89	5.50	6.77	6.33
60	2.00	0.25	25.89	24.19	32.66	30.52
80	2.50	0.18	50.66	47.34	83.32	77.86
120	3.00	0.13	19.55	18.27	102.87	96.13
170	3.50	0.09	3.69	3.45	106.56	99.58
200	3.75	0.07	0.22	0.21	106.78	99.79
230	4.00	0.06	0.07	0.07	106.85	99.86

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.97	2.67	2.47	2.21	1.89	1.70	1.38
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	2.19	0.22	0.47	-0.14	3.7	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-002 Dune Toe

Analysis Date: 05-27-20

Analyzed By: SF

Easting (ft): 2,920,197	Northing (ft): 1,032,729	Coordinate System: North Carolina State Plane	Elevation (ft): 8.2 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 10YR-7/2 Washed - 10YR-7/2	Comments:
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Dry Weight (g): 107.47	Wash Weight (g): 107.35	Pan Retained (g): 0.01	Sieve Loss (%): 0.02	Fines (%): #200 - 0.15 #230 - 0.14	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.01	0.01	0.01	0.01
10	-1.00	2.00	0.00	0.00	0.01	0.01
14	-0.50	1.41	0.02	0.02	0.03	0.03
18	0.00	1.00	0.02	0.02	0.05	0.05
25	0.50	0.71	0.80	0.74	0.85	0.79
35	1.00	0.50	8.53	7.94	9.38	8.73
45	1.50	0.35	25.76	23.97	35.14	32.70
60	2.00	0.25	41.98	39.06	77.12	71.76
80	2.50	0.18	24.56	22.85	101.68	94.61
120	3.00	0.13	4.87	4.53	106.55	99.14
170	3.50	0.09	0.72	0.67	107.27	99.81
200	3.75	0.07	0.04	0.04	107.31	99.85
230	4.00	0.06	0.01	0.01	107.32	99.86

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.54	2.27	2.07	1.72	1.34	1.15	0.77

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.71	0.31	0.53	-0.06	3.29

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-002 Mid-Berm

Analysis Date: 05-27-20

Analyzed By: SF

Easting (ft): 2,920,222	Northing (ft): 1,032,734	Coordinate System: North Carolina State Plane	Elevation (ft): 6.3 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 10YR-6/3 Washed - 10YR-7/3	Comments:
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Dry Weight (g): 105.36	Wash Weight (g): 105.17	Pan Retained (g): 0.00	Sieve Loss (%): 0.02	Fines (%): #200 - 0.20 #230 - 0.19	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.04	0.04	0.04	0.04
10	-1.00	2.00	0.08	0.08	0.12	0.12
14	-0.50	1.41	0.22	0.21	0.34	0.33
18	0.00	1.00	1.58	1.50	1.92	1.83
25	0.50	0.71	9.89	9.39	11.81	11.22
35	1.00	0.50	31.55	29.94	43.36	41.16
45	1.50	0.35	25.16	23.88	68.52	65.04
60	2.00	0.25	21.40	20.31	89.92	85.35
80	2.50	0.18	11.75	11.15	101.67	96.50
120	3.00	0.13	3.21	3.05	104.88	99.55
170	3.50	0.09	0.24	0.23	105.12	99.78
200	3.75	0.07	0.02	0.02	105.14	99.80
230	4.00	0.06	0.01	0.01	105.15	99.81

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.43	1.97	1.75	1.19	0.73	0.58	0.17

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.24	0.42	0.68	0.17	2.87

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-002 MHW

Analysis Date: 05-27-20

Analyzed By: SF

Easting (ft): 2,920,270	Northing (ft): 1,032,744	Coordinate System: North Carolina State Plane	Elevation (ft): 1.2 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 10YR-7/3 Washed - 10YR-7/3	Comments:
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Dry Weight (g): 95.24	Wash Weight (g): 94.43	Pan Retained (g): 0.00	Sieve Loss (%): 0.00	Fines (%): #200 - 0.85 #230 - 0.84	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.90	0.94	0.90	0.94
3.5	-2.50	5.66	0.00	0.00	0.90	0.94
4	-2.25	4.76	0.00	0.00	0.90	0.94
5	-2.00	4.00	0.00	0.00	0.90	0.94
7	-1.50	2.83	0.01	0.01	0.91	0.95
10	-1.00	2.00	0.03	0.03	0.94	0.98
14	-0.50	1.41	0.31	0.33	1.25	1.31
18	0.00	1.00	1.02	1.07	2.27	2.38
25	0.50	0.71	5.78	6.07	8.05	8.45
35	1.00	0.50	14.96	15.71	23.01	24.16
45	1.50	0.35	19.17	20.13	42.18	44.29
60	2.00	0.25	29.14	30.60	71.32	74.89
80	2.50	0.18	20.13	21.14	91.45	96.03
120	3.00	0.13	2.77	2.91	94.22	98.94
170	3.50	0.09	0.19	0.20	94.41	99.14
200	3.75	0.07	0.01	0.01	94.42	99.15
230	4.00	0.06	0.01	0.01	94.43	99.16

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.48	2.22	2.00	1.59	1.02	0.74	0.22
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.46	0.36	0.81	-2.01	12.19	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-002 MT

Analysis Date: 05-27-20

Analyzed By: SF

Easting (ft): 2,920,310	Northing (ft): 1,032,753	Coordinate System: North Carolina State Plane	Elevation (ft): -0.4 NAVD88
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USCS: SW	Munsell: Wet - 2.5Y-5/2 Dry - 10YR-6/3 Washed - 10YR-7/3	Comments:
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Dry Weight (g): 94.89	Wash Weight (g): 94.06	Pan Retained (g): 0.02	Sieve Loss (%): 0.02	Fines (%): #200 - 0.91 #230 - 0.89	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	1.01	1.06	1.01	1.06
4	-2.25	4.76	0.57	0.60	1.58	1.66
5	-2.00	4.00	0.20	0.21	1.78	1.87
7	-1.50	2.83	0.84	0.89	2.62	2.76
10	-1.00	2.00	0.70	0.74	3.32	3.50
14	-0.50	1.41	1.59	1.68	4.91	5.18
18	0.00	1.00	3.88	4.09	8.79	9.27
25	0.50	0.71	12.60	13.28	21.39	22.55
35	1.00	0.50	19.97	21.05	41.36	43.60
45	1.50	0.35	15.51	16.35	56.87	59.95
60	2.00	0.25	15.33	16.16	72.20	76.11
80	2.50	0.18	15.17	15.99	87.37	92.10
120	3.00	0.13	5.87	6.19	93.24	98.29
170	3.50	0.09	0.69	0.73	93.93	99.02
200	3.75	0.07	0.07	0.07	94.00	99.09
230	4.00	0.06	0.02	0.02	94.02	99.11

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.73	2.25	1.97	1.20	0.56	0.25	-0.55

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.15	0.45	1.06	-0.89	4.69

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-002 MLW

Analysis Date: 05-27-20

Analyzed By: SF

Easting (ft): 2,920,371	Northing (ft): 1,032,764	Coordinate System: North Carolina State Plane	Elevation (ft): -2.2 NAVD88
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USCS: SW	Munsell: Wet - 2.5Y-5/2 Dry - 10YR-6/3 Washed - 10YR-7/3	Comments:
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Dry Weight (g): 95.99	Wash Weight (g): 95.07	Pan Retained (g): 0.01	Sieve Loss (%): 0.03	Fines (%): #200 - 1.01 #230 - 0.99	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.68	0.71	0.68	0.71
5/16"	-3.00	8.00	0.00	0.00	0.68	0.71
3.5	-2.50	5.66	0.24	0.25	0.92	0.96
4	-2.25	4.76	0.65	0.68	1.57	1.64
5	-2.00	4.00	0.36	0.38	1.93	2.02
7	-1.50	2.83	0.36	0.38	2.29	2.40
10	-1.00	2.00	0.51	0.53	2.80	2.93
14	-0.50	1.41	0.80	0.83	3.60	3.76
18	0.00	1.00	1.79	1.86	5.39	5.62
25	0.50	0.71	6.81	7.09	12.20	12.71
35	1.00	0.50	20.32	21.17	32.52	33.88
45	1.50	0.35	20.96	21.84	53.48	55.72
60	2.00	0.25	18.59	19.37	72.07	75.09
80	2.50	0.18	13.14	13.69	85.21	88.78
120	3.00	0.13	8.68	9.04	93.89	97.82
170	3.50	0.09	1.09	1.14	94.98	98.96
200	3.75	0.07	0.03	0.03	95.01	98.99
230	4.00	0.06	0.02	0.02	95.03	99.01

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.84	2.33	2.00	1.37	0.79	0.58	-0.17
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.32	0.40	1.03	-1.45	7.87	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-002 Trough

Analysis Date: 05-28-20

Analyzed By: SF

Easting (ft): 2,920,716	Northing (ft): 1,032,831	Coordinate System: North Carolina State Plane	Elevation (ft): -9.1 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-4/1 Dry - 2.5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 93.52	Wash Weight (g): 92.26	Pan Retained (g): 0.03	Sieve Loss (%): 0.00	Fines (%): #200 - 1.86 #230 - 1.38	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.02	0.02	0.02	0.02
10	-1.00	2.00	0.02	0.02	0.04	0.04
14	-0.50	1.41	0.09	0.10	0.13	0.14
18	0.00	1.00	0.12	0.13	0.25	0.27
25	0.50	0.71	0.43	0.46	0.68	0.73
35	1.00	0.50	1.74	1.86	2.42	2.59
45	1.50	0.35	3.13	3.35	5.55	5.94
60	2.00	0.25	7.72	8.25	13.27	14.19
80	2.50	0.18	14.50	15.50	27.77	29.69
120	3.00	0.13	40.07	42.85	67.84	72.54
170	3.50	0.09	22.78	24.36	90.62	96.90
200	3.75	0.07	1.16	1.24	91.78	98.14
230	4.00	0.06	0.45	0.48	92.23	98.62

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.46	3.24	3.05	2.74	2.35	2.06	1.36

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.62	0.16	0.63	-1.4	6.08

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-002 Bar

Analysis Date: 05-27-20

Analyzed By: SF

Easting (ft): 2,920,912	Northing (ft): 1,032,869	Coordinate System: North Carolina State Plane	Elevation (ft): -8.6 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-4/1 Dry - 2.5Y-6/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 92.23	Wash Weight (g): 91.09	Pan Retained (g): 0.08	Sieve Loss (%): 0.03	Fines (%): #200 - 1.93 #230 - 1.34	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.06	0.07	0.06	0.07
14	-0.50	1.41	0.04	0.04	0.10	0.11
18	0.00	1.00	0.09	0.10	0.19	0.21
25	0.50	0.71	0.31	0.34	0.50	0.55
35	1.00	0.50	0.91	0.99	1.41	1.54
45	1.50	0.35	1.96	2.13	3.37	3.67
60	2.00	0.25	5.26	5.70	8.63	9.37
80	2.50	0.18	15.96	17.30	24.59	26.67
120	3.00	0.13	39.38	42.70	63.97	69.37
170	3.50	0.09	24.87	26.97	88.84	96.34
200	3.75	0.07	1.60	1.73	90.44	98.07
230	4.00	0.06	0.54	0.59	90.98	98.66

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.48	3.27	3.10	2.77	2.45	2.19	1.62

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.7	0.15	0.57	-1.45	7.29

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-002 -12

Analysis Date: 05-27-20

Analyzed By: SF

Easting (ft): 2,921,251	Northing (ft): 1,032,943	Coordinate System: North Carolina State Plane	Elevation (ft): -12.1 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 89.78	Wash Weight (g): 88.09	Pan Retained (g): 0.06	Sieve Loss (%): 0.01	Fines (%): #200 - 2.37 #230 - 1.96	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.09	0.10	0.09	0.10
7	-1.50	2.83	0.19	0.21	0.28	0.31
10	-1.00	2.00	0.11	0.12	0.39	0.43
14	-0.50	1.41	0.09	0.10	0.48	0.53
18	0.00	1.00	0.07	0.08	0.55	0.61
25	0.50	0.71	0.13	0.14	0.68	0.75
35	1.00	0.50	0.31	0.35	0.99	1.10
45	1.50	0.35	0.48	0.53	1.47	1.63
60	2.00	0.25	1.04	1.16	2.51	2.79
80	2.50	0.18	7.74	8.62	10.25	11.41
120	3.00	0.13	51.98	57.90	62.23	69.31
170	3.50	0.09	24.29	27.06	86.52	96.37
200	3.75	0.07	1.13	1.26	87.65	97.63
230	4.00	0.06	0.37	0.41	88.02	98.04

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.47	3.27	3.11	2.83	2.62	2.54	2.13

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.8	0.14	0.51	-4.15	34.51

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-002 -14

Analysis Date: 05-28-20

Analyzed By: SF

Easting (ft): 2,921,426	Northing (ft): 1,032,966	Coordinate System: North Carolina State Plane	Elevation (ft): -14.0 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 92.94	Wash Weight (g): 91.64	Pan Retained (g): 0.08	Sieve Loss (%): 0.01	Fines (%): #200 - 1.92 #230 - 1.50	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.02	0.02	0.02	0.02
10	-1.00	2.00	0.04	0.04	0.06	0.06
14	-0.50	1.41	0.06	0.06	0.12	0.12
18	0.00	1.00	0.04	0.04	0.16	0.16
25	0.50	0.71	0.09	0.10	0.25	0.26
35	1.00	0.50	0.29	0.31	0.54	0.57
45	1.50	0.35	0.47	0.51	1.01	1.08
60	2.00	0.25	0.87	0.94	1.88	2.02
80	2.50	0.18	6.06	6.52	7.94	8.54
120	3.00	0.13	57.14	61.48	65.08	70.02
170	3.50	0.09	24.91	26.80	89.99	96.82
200	3.75	0.07	1.17	1.26	91.16	98.08
230	4.00	0.06	0.39	0.42	91.55	98.50

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.47	3.26	3.09	2.84	2.63	2.56	2.23

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.84	0.14	0.39	-2.54	22.42

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-002 -16

Analysis Date: 05-28-20

Analyzed By: SF

Easting (ft): 2,921,585	Northing (ft): 1,033,002	Coordinate System: North Carolina State Plane	Elevation (ft): -16.3 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-6/2 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 92.25	Wash Weight (g): 90.69	Pan Retained (g): 0.23	Sieve Loss (%): 0.00	Fines (%): #200 - 3.10 #230 - 1.96	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.02	0.02	0.02	0.02
7	-1.50	2.83	0.00	0.00	0.02	0.02
10	-1.00	2.00	0.03	0.03	0.05	0.05
14	-0.50	1.41	0.01	0.01	0.06	0.06
18	0.00	1.00	0.04	0.04	0.10	0.10
25	0.50	0.71	0.15	0.16	0.25	0.26
35	1.00	0.50	0.58	0.63	0.83	0.89
45	1.50	0.35	1.12	1.21	1.95	2.10
60	2.00	0.25	1.62	1.76	3.57	3.86
80	2.50	0.18	2.86	3.10	6.43	6.96
120	3.00	0.13	23.73	25.72	30.16	32.68
170	3.50	0.09	55.62	60.29	85.78	92.97
200	3.75	0.07	3.63	3.93	89.41	96.90
230	4.00	0.06	1.05	1.14	90.46	98.04

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.63	3.43	3.35	3.14	2.85	2.68	2.18
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	3.03	0.12	0.47	-2.78	16.07	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-002 -18

Analysis Date: 05-28-20

Analyzed By: SF

Easting (ft): 2,921,696	Northing (ft): 1,033,026	Coordinate System: North Carolina State Plane	Elevation (ft): -18.1 NAVD88
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USCS: SP-SM	Munsell: Wet - 2.5Y-4/1 Dry - 2.5Y-6/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 88.66	Wash Weight (g): 86.53	Pan Retained (g): 0.44	Sieve Loss (%): 0.00	Fines (%): #200 - 5.61 #230 - 2.91	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.29	0.33	0.29	0.33
3.5	-2.50	5.66	0.00	0.00	0.29	0.33
4	-2.25	4.76	0.00	0.00	0.29	0.33
5	-2.00	4.00	0.00	0.00	0.29	0.33
7	-1.50	2.83	0.33	0.37	0.62	0.70
10	-1.00	2.00	0.25	0.28	0.87	0.98
14	-0.50	1.41	0.22	0.25	1.09	1.23
18	0.00	1.00	0.24	0.27	1.33	1.50
25	0.50	0.71	0.27	0.30	1.60	1.80
35	1.00	0.50	0.74	0.83	2.34	2.63
45	1.50	0.35	0.99	1.12	3.33	3.75
60	2.00	0.25	1.03	1.16	4.36	4.91
80	2.50	0.18	1.65	1.86	6.01	6.77
120	3.00	0.13	28.48	32.12	34.49	38.89
170	3.50	0.09	45.97	51.85	80.46	90.74
200	3.75	0.07	3.24	3.65	83.70	94.39
230	4.00	0.06	2.39	2.70	86.09	97.09

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.81	3.44	3.35	3.11	2.78	2.64	2.02

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.95	0.13	0.75	-4.42	29.36

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-002 -20

Analysis Date: 05-28-20

Analyzed By: SF

Easting (ft): 2,921,825	Northing (ft): 1,033,052	Coordinate System: North Carolina State Plane	Elevation (ft): -20.1 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-6/2 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 89.82	Wash Weight (g): 87.69	Pan Retained (g): 0.28	Sieve Loss (%): 0.02	Fines (%): #200 - 4.13 #230 - 2.70	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.79	0.88	0.79	0.88
5/16"	-3.00	8.00	0.00	0.00	0.79	0.88
3.5	-2.50	5.66	0.00	0.00	0.79	0.88
4	-2.25	4.76	0.00	0.00	0.79	0.88
5	-2.00	4.00	0.06	0.07	0.85	0.95
7	-1.50	2.83	0.00	0.00	0.85	0.95
10	-1.00	2.00	0.00	0.00	0.85	0.95
14	-0.50	1.41	0.04	0.04	0.89	0.99
18	0.00	1.00	0.08	0.09	0.97	1.08
25	0.50	0.71	0.41	0.46	1.38	1.54
35	1.00	0.50	1.28	1.43	2.66	2.97
45	1.50	0.35	1.06	1.18	3.72	4.15
60	2.00	0.25	0.90	1.00	4.62	5.15
80	2.50	0.18	2.63	2.93	7.25	8.08
120	3.00	0.13	38.24	42.57	45.49	50.65
170	3.50	0.09	37.88	42.17	83.37	92.82
200	3.75	0.07	2.74	3.05	86.11	95.87
230	4.00	0.06	1.28	1.43	87.39	97.30

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.68	3.40	3.29	2.99	2.70	2.59	1.92

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.86	0.14	0.83	-5.27	39.51

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-017 Dune

Analysis Date: 05-28-20

Analyzed By: SF

Easting (ft): 2,923,012	Northing (ft): 1,018,059	Coordinate System: North Carolina State Plane	Elevation (ft): 13.5 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 10YR-7/2 Washed - 2.5Y-8/1	Comments:
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Dry Weight (g): 104.28	Wash Weight (g): 104.12	Pan Retained (g): 0.02	Sieve Loss (%): 0.01	Fines (%): #200 - 0.28 #230 - 0.18	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.03	0.03	0.03	0.03
35	1.00	0.50	0.48	0.46	0.51	0.49
45	1.50	0.35	4.07	3.90	4.58	4.39
60	2.00	0.25	14.57	13.97	19.15	18.36
80	2.50	0.18	45.31	43.45	64.46	61.81
120	3.00	0.13	35.79	34.32	100.25	96.13
170	3.50	0.09	3.47	3.33	103.72	99.46
200	3.75	0.07	0.27	0.26	103.99	99.72
230	4.00	0.06	0.10	0.10	104.09	99.82

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.98	2.82	2.69	2.36	2.08	1.92	1.52
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.34	0.20	0.45	-0.49	3.69	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-017 Dune Toe

Analysis Date: 05-28-20

Analyzed By: SF

Easting (ft): 2,923,041	Northing (ft): 1,018,065	Coordinate System: North Carolina State Plane	Elevation (ft): 8.4 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 10YR-7/2 Washed - 10YR-7/2	Comments:
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Dry Weight (g): 105.75	Wash Weight (g): 105.38	Pan Retained (g): 0.02	Sieve Loss (%): 0.00	Fines (%): #200 - 0.80 #230 - 0.37	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.02	0.02	0.02	0.02
14	-0.50	1.41	0.01	0.01	0.03	0.03
18	0.00	1.00	0.01	0.01	0.04	0.04
25	0.50	0.71	0.11	0.10	0.15	0.14
35	1.00	0.50	3.77	3.57	3.92	3.71
45	1.50	0.35	13.62	12.88	17.54	16.59
60	2.00	0.25	22.58	21.35	40.12	37.94
80	2.50	0.18	32.17	30.42	72.29	68.36
120	3.00	0.13	28.84	27.27	101.13	95.63
170	3.50	0.09	3.73	3.53	104.86	99.16
200	3.75	0.07	0.04	0.04	104.90	99.20
230	4.00	0.06	0.46	0.43	105.36	99.63

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.99	2.79	2.62	2.20	1.70	1.48	1.05
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.14	0.23	0.61	-0.34	2.85	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-017 Mid-Berm

Analysis Date: 05-28-20

Analyzed By: SF

Easting (ft): 2,923,101	Northing (ft): 1,018,080	Coordinate System: North Carolina State Plane	Elevation (ft): 4.7 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 10YR-7/2 Washed - 10YR-7/2	Comments:
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Dry Weight (g): 104.84	Wash Weight (g): 104.57	Pan Retained (g): 0.02	Sieve Loss (%): 0.03	Fines (%): #200 - 0.41 #230 - 0.32	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.02	0.02	0.02	0.02
14	-0.50	1.41	0.00	0.00	0.02	0.02
18	0.00	1.00	0.01	0.01	0.03	0.03
25	0.50	0.71	0.11	0.10	0.14	0.13
35	1.00	0.50	2.98	2.84	3.12	2.97
45	1.50	0.35	10.99	10.48	14.11	13.45
60	2.00	0.25	22.06	21.04	36.17	34.49
80	2.50	0.18	49.72	47.42	85.89	81.91
120	3.00	0.13	15.97	15.23	101.86	97.14
170	3.50	0.09	2.31	2.20	104.17	99.34
200	3.75	0.07	0.26	0.25	104.43	99.59
230	4.00	0.06	0.09	0.09	104.52	99.68

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.93	2.57	2.43	2.16	1.77	1.56	1.10
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.1	0.23	0.52	-0.46	3.75	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-017 MHW

Analysis Date: 05-28-20

Analyzed By: SF

Easting (ft): 2,923,195	Northing (ft): 1,018,098	Coordinate System: North Carolina State Plane	Elevation (ft): 1.3 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 10YR-7/1 Washed - 2.5Y-8/1	Comments:
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Dry Weight (g): 92.81	Wash Weight (g): 91.92	Pan Retained (g): 0.00	Sieve Loss (%): 0.04	Fines (%): #200 - 1.03 #230 - 1.01	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.69	0.74	0.70	0.75
45	1.50	0.35	12.28	13.23	12.98	13.98
60	2.00	0.25	24.51	26.41	37.49	40.39
80	2.50	0.18	32.13	34.62	69.62	75.01
120	3.00	0.13	20.04	21.59	89.66	96.60
170	3.50	0.09	2.14	2.31	91.80	98.91
200	3.75	0.07	0.06	0.06	91.86	98.97
230	4.00	0.06	0.02	0.02	91.88	98.99

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.96	2.71	2.50	2.14	1.71	1.54	1.16
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.11	0.23	0.53	-0.12	2.43	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-017 MT

Analysis Date: 05-28-20

Analyzed By: SF

Easting (ft): 2,923,264	Northing (ft): 1,018,111	Coordinate System: North Carolina State Plane	Elevation (ft): -0.5 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 10YR-7/2 Washed - 2.5Y-8/1	Comments:
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Dry Weight (g): 91.69	Wash Weight (g): 90.76	Pan Retained (g): 0.00	Sieve Loss (%): 0.01	Fines (%): #200 - 1.10 #230 - 1.05	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.01	0.01	0.01	0.01
14	-0.50	1.41	0.01	0.01	0.02	0.02
18	0.00	1.00	0.03	0.03	0.05	0.05
25	0.50	0.71	0.13	0.14	0.18	0.19
35	1.00	0.50	4.95	5.40	5.13	5.59
45	1.50	0.35	14.93	16.28	20.06	21.87
60	2.00	0.25	19.88	21.68	39.94	43.55
80	2.50	0.18	26.63	29.04	66.57	72.59
120	3.00	0.13	22.20	24.21	88.77	96.80
170	3.50	0.09	1.92	2.09	90.69	98.89
200	3.75	0.07	0.01	0.01	90.70	98.90
230	4.00	0.06	0.05	0.05	90.75	98.95

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.96	2.74	2.55	2.11	1.57	1.32	0.95
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.03	0.24	0.62	-0.34	2.46	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-017 MLW

Analysis Date: 05-28-20

Analyzed By: SF

Easting (ft): 2,923,326	Northing (ft): 1,018,124	Coordinate System: North Carolina State Plane	Elevation (ft): -2.2 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-4/2 Dry - 10YR-6/3 Washed - 10YR-7/3	Comments:
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Dry Weight (g): 109.45	Wash Weight (g): 108.53	Pan Retained (g): 0.00	Sieve Loss (%): 0.01	Fines (%): #200 - 0.86 #230 - 0.85	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.28	0.26	0.28	0.26
3.5	-2.50	5.66	0.00	0.00	0.28	0.26
4	-2.25	4.76	0.15	0.14	0.43	0.40
5	-2.00	4.00	0.22	0.20	0.65	0.60
7	-1.50	2.83	0.68	0.62	1.33	1.22
10	-1.00	2.00	0.49	0.45	1.82	1.67
14	-0.50	1.41	0.55	0.50	2.37	2.17
18	0.00	1.00	0.78	0.71	3.15	2.88
25	0.50	0.71	3.78	3.45	6.93	6.33
35	1.00	0.50	32.28	29.49	39.21	35.82
45	1.50	0.35	35.81	32.72	75.02	68.54
60	2.00	0.25	13.82	12.63	88.84	81.17
80	2.50	0.18	12.80	11.69	101.64	92.86
120	3.00	0.13	6.17	5.64	107.81	98.50
170	3.50	0.09	0.70	0.64	108.51	99.14
200	3.75	0.07	0.00	0.00	108.51	99.14
230	4.00	0.06	0.01	0.01	108.52	99.15

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.69	2.12	1.76	1.22	0.82	0.66	0.31

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.27	0.41	0.79	-0.84	7.55

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-017 Trough

Analysis Date: 05-29-20

Analyzed By: SF

Easting (ft): 2,923,801	Northing (ft): 1,018,226	Coordinate System: North Carolina State Plane	Elevation (ft): -10.8 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-8/1	Comments:
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Dry Weight (g): 91.04	Wash Weight (g): 88.44	Pan Retained (g): 0.11	Sieve Loss (%): 0.01	Fines (%): #200 - 3.39 #230 - 2.99	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.02	0.02	0.02	0.02
10	-1.00	2.00	0.02	0.02	0.04	0.04
14	-0.50	1.41	0.05	0.05	0.09	0.09
18	0.00	1.00	0.07	0.08	0.16	0.17
25	0.50	0.71	0.14	0.15	0.30	0.32
35	1.00	0.50	0.69	0.76	0.99	1.08
45	1.50	0.35	1.67	1.83	2.66	2.91
60	2.00	0.25	2.41	2.65	5.07	5.56
80	2.50	0.18	9.95	10.93	15.02	16.49
120	3.00	0.13	43.18	47.43	58.20	63.92
170	3.50	0.09	28.45	31.25	86.65	95.17
200	3.75	0.07	1.31	1.44	87.96	96.61
230	4.00	0.06	0.36	0.40	88.32	97.01

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.50	3.32	3.18	2.85	2.59	2.48	1.89
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.79	0.14	0.51	-1.91	10.47	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-017 Bar

Analysis Date: 05-29-20

Analyzed By: SF

Easting (ft): 2,924,049	Northing (ft): 1,018,276	Coordinate System: North Carolina State Plane	Elevation (ft): -9.7 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-8/1	Comments:
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Dry Weight (g): 91.69	Wash Weight (g): 90.47	Pan Retained (g): 0.03	Sieve Loss (%): 0.00	Fines (%): #200 - 1.74 #230 - 1.37	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.09	0.10	0.09	0.10
10	-1.00	2.00	0.04	0.04	0.13	0.14
14	-0.50	1.41	0.08	0.09	0.21	0.23
18	0.00	1.00	0.09	0.10	0.30	0.33
25	0.50	0.71	0.13	0.14	0.43	0.47
35	1.00	0.50	0.33	0.36	0.76	0.83
45	1.50	0.35	0.22	0.24	0.98	1.07
60	2.00	0.25	0.43	0.47	1.41	1.54
80	2.50	0.18	5.99	6.53	7.40	8.07
120	3.00	0.13	55.85	60.91	63.25	68.98
170	3.50	0.09	26.20	28.57	89.45	97.55
200	3.75	0.07	0.65	0.71	90.10	98.26
230	4.00	0.06	0.34	0.37	90.44	98.63

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.46	3.26	3.11	2.84	2.64	2.57	2.26

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.84	0.14	0.41	-3.62	33.3

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-017 -12

Analysis Date: 05-29-20

Analyzed By: SF

Easting (ft): 2,924,282	Northing (ft): 1,018,318	Coordinate System: North Carolina State Plane	Elevation (ft): -12.2 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-6/2 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 91.77	Wash Weight (g): 90.44	Pan Retained (g): 0.04	Sieve Loss (%): 0.00	Fines (%): #200 - 1.85 #230 - 1.50	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.10	0.11	0.10	0.11
5	-2.00	4.00	0.13	0.14	0.23	0.25
7	-1.50	2.83	0.23	0.25	0.46	0.50
10	-1.00	2.00	0.27	0.29	0.73	0.79
14	-0.50	1.41	0.43	0.47	1.16	1.26
18	0.00	1.00	0.41	0.45	1.57	1.71
25	0.50	0.71	0.97	1.06	2.54	2.77
35	1.00	0.50	2.57	2.80	5.11	5.57
45	1.50	0.35	1.59	1.73	6.70	7.30
60	2.00	0.25	1.61	1.75	8.31	9.05
80	2.50	0.18	21.78	23.73	30.09	32.78
120	3.00	0.13	45.19	49.24	75.28	82.02
170	3.50	0.09	14.01	15.27	89.29	97.29
200	3.75	0.07	0.79	0.86	90.08	98.15
230	4.00	0.06	0.32	0.35	90.40	98.50

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.43	3.06	2.93	2.67	2.34	2.15	0.90

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.52	0.17	0.75	-2.74	13.67

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-017 -14

Analysis Date: 05-29-20

Analyzed By: SF

Easting (ft): 2,924,434	Northing (ft): 1,018,367	Coordinate System: North Carolina State Plane	Elevation (ft): -14.1 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 89.61	Wash Weight (g): 88.30	Pan Retained (g): 0.09	Sieve Loss (%): 0.00	Fines (%): #200 - 2.00 #230 - 1.58	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.06	0.07	0.06	0.07
5	-2.00	4.00	0.02	0.02	0.08	0.09
7	-1.50	2.83	0.00	0.00	0.08	0.09
10	-1.00	2.00	0.01	0.01	0.09	0.10
14	-0.50	1.41	0.01	0.01	0.10	0.11
18	0.00	1.00	0.01	0.01	0.11	0.12
25	0.50	0.71	0.01	0.01	0.12	0.13
35	1.00	0.50	0.01	0.01	0.13	0.14
45	1.50	0.35	0.02	0.02	0.15	0.16
60	2.00	0.25	0.08	0.09	0.23	0.25
80	2.50	0.18	2.27	2.53	2.50	2.78
120	3.00	0.13	49.40	55.13	51.90	57.91
170	3.50	0.09	34.35	38.33	86.25	96.24
200	3.75	0.07	1.58	1.76	87.83	98.00
230	4.00	0.06	0.38	0.42	88.21	98.42

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.48	3.34	3.22	2.93	2.70	2.62	2.52
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.94	0.13	0.34	-3.8	59.84	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-017 -16

Analysis Date: 05-29-20

Analyzed By: SF

Easting (ft): 2,924,662	Northing (ft): 1,018,403	Coordinate System: North Carolina State Plane	Elevation (ft): -16.2 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 88.48	Wash Weight (g): 86.74	Pan Retained (g): 0.13	Sieve Loss (%): 0.05	Fines (%): #200 - 4.11 #230 - 2.17	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.07	0.08	0.07	0.08
7	-1.50	2.83	0.02	0.02	0.09	0.10
10	-1.00	2.00	0.02	0.02	0.11	0.12
14	-0.50	1.41	0.00	0.00	0.11	0.12
18	0.00	1.00	0.01	0.01	0.12	0.13
25	0.50	0.71	0.02	0.02	0.14	0.15
35	1.00	0.50	0.01	0.01	0.15	0.16
45	1.50	0.35	0.03	0.03	0.18	0.19
60	2.00	0.25	0.10	0.11	0.28	0.30
80	2.50	0.18	1.22	1.38	1.50	1.68
120	3.00	0.13	40.31	45.56	41.81	47.24
170	3.50	0.09	41.76	47.20	83.57	94.44
200	3.75	0.07	1.28	1.45	84.85	95.89
230	4.00	0.06	1.72	1.94	86.57	97.83

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.60	3.39	3.29	3.03	2.76	2.66	2.54

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	3.01	0.12	0.35	-3.58	52.06

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-017 -18

Analysis Date: 05-29-20

Analyzed By: SF

Easting (ft): 2,924,915	Northing (ft): 1,018,437	Coordinate System: North Carolina State Plane	Elevation (ft): -18.1 NAVD88
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USCS: SP-SM	Munsell: Wet - 10Y-3/1 Dry - 5Y-6/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 89.91	Wash Weight (g): 86.37	Pan Retained (g): 0.35	Sieve Loss (%): 0.03	Fines (%): #200 - 6.11 #230 - 4.36	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.02	0.02	0.02	0.02
10	-1.00	2.00	0.00	0.00	0.02	0.02
14	-0.50	1.41	0.01	0.01	0.03	0.03
18	0.00	1.00	0.02	0.02	0.05	0.05
25	0.50	0.71	0.00	0.00	0.05	0.05
35	1.00	0.50	0.04	0.04	0.09	0.09
45	1.50	0.35	0.06	0.07	0.15	0.16
60	2.00	0.25	0.23	0.26	0.38	0.42
80	2.50	0.18	1.32	1.47	1.70	1.89
120	3.00	0.13	34.37	38.23	36.07	40.12
170	3.50	0.09	45.28	50.36	81.35	90.48
200	3.75	0.07	3.07	3.41	84.42	93.89
230	4.00	0.06	1.57	1.75	85.99	95.64

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.91	3.44	3.35	3.10	2.80	2.68	2.54
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	3.05	0.12	0.33	-1.47	18.72	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-017 -20

Analysis Date: 05-29-20

Analyzed By: SF

Easting (ft): 2,925,204	Northing (ft): 1,018,487	Coordinate System: North Carolina State Plane	Elevation (ft): -20.0 NAVD88
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USCS: SP-SM	Munsell: Wet - 10Y-3/2 Dry - 5Y-6/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 89.11	Wash Weight (g): 84.94	Pan Retained (g): 0.40	Sieve Loss (%): 0.00	Fines (%): #200 - 8.66 #230 - 5.15	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.12	0.13	0.12	0.13
7	-1.50	2.83	0.04	0.04	0.16	0.17
10	-1.00	2.00	0.03	0.03	0.19	0.20
14	-0.50	1.41	0.01	0.01	0.20	0.21
18	0.00	1.00	0.01	0.01	0.21	0.22
25	0.50	0.71	0.01	0.01	0.22	0.23
35	1.00	0.50	0.04	0.04	0.26	0.27
45	1.50	0.35	0.15	0.17	0.41	0.44
60	2.00	0.25	0.44	0.49	0.85	0.93
80	2.50	0.18	1.76	1.98	2.61	2.91
120	3.00	0.13	13.54	15.19	16.15	18.10
170	3.50	0.09	59.04	66.26	75.19	84.36
200	3.75	0.07	6.22	6.98	81.41	91.34
230	4.00	0.06	3.13	3.51	84.54	94.85

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
	3.50	3.43	3.24	3.05	2.93	2.57

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	3.17	0.11	0.41	-5.27	60.9

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-031 Dune

Analysis Date: 05-29-20

Analyzed By: SF

Easting (ft): 2,926,155	Northing (ft): 1,004,439	Coordinate System: North Carolina State Plane	Elevation (ft): 12.6 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-8/1	Comments:
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Dry Weight (g): 106.24	Wash Weight (g): 106.11	Pan Retained (g): 0.02	Sieve Loss (%): 0.03	Fines (%): #200 - 0.24 #230 - 0.16	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.15	0.14	0.16	0.15
45	1.50	0.35	4.61	4.34	4.77	4.49
60	2.00	0.25	24.54	23.10	29.31	27.59
80	2.50	0.18	43.49	40.94	72.80	68.53
120	3.00	0.13	30.24	28.46	103.04	96.99
170	3.50	0.09	2.80	2.64	105.84	99.63
200	3.75	0.07	0.14	0.13	105.98	99.76
230	4.00	0.06	0.08	0.08	106.06	99.84

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.97	2.77	2.61	2.27	1.94	1.75	1.51
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.26	0.21	0.45	-0.17	2.83	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-031 Dune Toe

Analysis Date: 05-29-20

Analyzed By: SF

Easting (ft): 2,926,184	Northing (ft): 1,004,444	Coordinate System: North Carolina State Plane	Elevation (ft): 9.3 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-8/1	Comments:
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Dry Weight (g): 106.82	Wash Weight (g): 106.48	Pan Retained (g): 0.01	Sieve Loss (%): 0.02	Fines (%): #200 - 0.41 #230 - 0.34	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.02	0.02	0.02	0.02
14	-0.50	1.41	0.01	0.01	0.03	0.03
18	0.00	1.00	0.02	0.02	0.05	0.05
25	0.50	0.71	0.06	0.06	0.11	0.11
35	1.00	0.50	1.07	1.00	1.18	1.11
45	1.50	0.35	9.18	8.59	10.36	9.70
60	2.00	0.25	28.55	26.73	38.91	36.43
80	2.50	0.18	48.76	45.65	87.67	82.08
120	3.00	0.13	16.02	15.00	103.69	97.08
170	3.50	0.09	2.51	2.35	106.20	99.43
200	3.75	0.07	0.17	0.16	106.37	99.59
230	4.00	0.06	0.08	0.07	106.45	99.66

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.93	2.56	2.42	2.15	1.79	1.62	1.23

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.11	0.23	0.48	-0.23	3.97

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-031 Mid-Berm

Analysis Date: 05-29-20

Analyzed By: SF

Easting (ft): 2,926,281	Northing (ft): 1,004,463	Coordinate System: North Carolina State Plane	Elevation (ft): 5.1 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-8/1	Comments:
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Dry Weight (g): 105.28	Wash Weight (g): 104.94	Pan Retained (g): 0.02	Sieve Loss (%): 0.00	Fines (%): #200 - 0.42 #230 - 0.35	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.02	0.02	0.02	0.02
35	1.00	0.50	0.39	0.37	0.41	0.39
45	1.50	0.35	7.34	6.97	7.75	7.36
60	2.00	0.25	32.25	30.63	40.00	37.99
80	2.50	0.18	46.85	44.50	86.85	82.49
120	3.00	0.13	16.52	15.69	103.37	98.18
170	3.50	0.09	1.37	1.30	104.74	99.48
200	3.75	0.07	0.11	0.10	104.85	99.58
230	4.00	0.06	0.07	0.07	104.92	99.65

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.90	2.55	2.42	2.13	1.79	1.64	1.33
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.11	0.23	0.44	-0.04	3.17	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-031 MHW

Analysis Date: 06-01-20

Analyzed By: SP

Easting (ft): 2,926,378	Northing (ft): 1,004,483	Coordinate System: North Carolina State Plane	Elevation (ft): 1.5 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/3 Washed - 2.5Y-8/1	Comments:
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Dry Weight (g): 89.22	Wash Weight (g): 88.24	Pan Retained (g): 0.00	Sieve Loss (%): 0.02	Fines (%): #200 - 1.13 #230 - 1.12	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.00	0.00	0.00	0.00
35	1.00	0.50	0.00	0.00	0.00	0.00
45	1.50	0.35	4.18	4.69	4.18	4.69
60	2.00	0.25	46.19	51.77	50.37	56.46
80	2.50	0.18	25.12	28.16	75.49	84.62
120	3.00	0.13	11.67	13.08	87.16	97.70
170	3.50	0.09	1.02	1.14	88.18	98.84
200	3.75	0.07	0.03	0.03	88.21	98.87
230	4.00	0.06	0.01	0.01	88.22	98.88

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.90	2.49	2.33	1.94	1.70	1.61	1.50
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.02	0.25	0.41	0.67	3.03	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-031 MT

Analysis Date: 06-01-20

Analyzed By: SP

Easting (ft): 2,926,446	Northing (ft): 1,004,497	Coordinate System: North Carolina State Plane	Elevation (ft): -0.4 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/3 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 92.60	Wash Weight (g): 91.78	Pan Retained (g): 0.00	Sieve Loss (%): 0.02	Fines (%): #200 - 0.91 #230 - 0.90	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.22	0.24	0.22	0.24
10	-1.00	2.00	0.12	0.13	0.34	0.37
14	-0.50	1.41	0.07	0.08	0.41	0.45
18	0.00	1.00	0.17	0.18	0.58	0.63
25	0.50	0.71	0.38	0.41	0.96	1.04
35	1.00	0.50	4.23	4.57	5.19	5.61
45	1.50	0.35	28.65	30.94	33.84	36.55
60	2.00	0.25	39.44	42.59	73.28	79.14
80	2.50	0.18	12.89	13.92	86.17	93.06
120	3.00	0.13	4.88	5.27	91.05	98.33
170	3.50	0.09	0.69	0.75	91.74	99.08
200	3.75	0.07	0.01	0.01	91.75	99.09
230	4.00	0.06	0.01	0.01	91.76	99.10

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.68	2.17	1.95	1.66	1.31	1.17	0.93
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.66	0.32	0.53	-0.58	8.26	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-031 MLW

Analysis Date: 06-01-20

Analyzed By: SP

Easting (ft): 2,926,544	Northing (ft): 1,004,514	Coordinate System: North Carolina State Plane	Elevation (ft): -2.2 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-4/2 Dry - 2.5Y-7/3 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 94.03	Wash Weight (g): 93.13	Pan Retained (g): 0.01	Sieve Loss (%): 0.02	Fines (%): #200 - 1.00 #230 - 0.99	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.25	0.27	0.25	0.27
5	-2.00	4.00	0.03	0.03	0.28	0.30
7	-1.50	2.83	0.07	0.07	0.35	0.37
10	-1.00	2.00	0.08	0.09	0.43	0.46
14	-0.50	1.41	0.13	0.14	0.56	0.60
18	0.00	1.00	0.08	0.09	0.64	0.69
25	0.50	0.71	0.28	0.30	0.92	0.99
35	1.00	0.50	3.84	4.08	4.76	5.07
45	1.50	0.35	26.37	28.04	31.13	33.11
60	2.00	0.25	33.72	35.86	64.85	68.97
80	2.50	0.18	19.32	20.55	84.17	89.52
120	3.00	0.13	7.73	8.22	91.90	97.74
170	3.50	0.09	1.17	1.24	93.07	98.98
200	3.75	0.07	0.02	0.02	93.09	99.00
230	4.00	0.06	0.01	0.01	93.10	99.01

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.83	2.37	2.15	1.74	1.36	1.19	0.99
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.75	0.30	0.6	-1.01	10.15	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-031 Trough

Analysis Date: 06-01-20

Analyzed By: SP

Easting (ft): 2,926,999	Northing (ft): 1,004,622	Coordinate System: North Carolina State Plane	Elevation (ft): -10.7 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 91.14	Wash Weight (g): 89.74	Pan Retained (g): 0.03	Sieve Loss (%): 0.07	Fines (%): #200 - 1.77 #230 - 1.65	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.01	0.01	0.01	0.01
14	-0.50	1.41	0.02	0.02	0.03	0.03
18	0.00	1.00	0.03	0.03	0.06	0.06
25	0.50	0.71	0.07	0.08	0.13	0.14
35	1.00	0.50	0.66	0.72	0.79	0.86
45	1.50	0.35	3.30	3.62	4.09	4.48
60	2.00	0.25	9.31	10.22	13.40	14.70
80	2.50	0.18	22.30	24.47	35.70	39.17
120	3.00	0.13	41.09	45.08	76.79	84.25
170	3.50	0.09	12.39	13.59	89.18	97.84
200	3.75	0.07	0.36	0.39	89.54	98.23
230	4.00	0.06	0.11	0.12	89.65	98.35

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.40	3.00	2.90	2.62	2.21	2.03	1.53

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	2.52	0.17	0.53	-0.9	4.48

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-031 Bar

Analysis Date: 06-01-20

Analyzed By: SP

Easting (ft): 2,927,189	Northing (ft): 1,004,652	Coordinate System: North Carolina State Plane	Elevation (ft): -9.1 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 90.94	Wash Weight (g): 89.79	Pan Retained (g): 0.01	Sieve Loss (%): 0.02	Fines (%): #200 - 1.40 #230 - 1.30	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.03	0.03	0.03	0.03
10	-1.00	2.00	0.07	0.08	0.10	0.11
14	-0.50	1.41	0.08	0.09	0.18	0.20
18	0.00	1.00	0.11	0.12	0.29	0.32
25	0.50	0.71	0.28	0.31	0.57	0.63
35	1.00	0.50	1.02	1.12	1.59	1.75
45	1.50	0.35	3.12	3.43	4.71	5.18
60	2.00	0.25	7.24	7.96	11.95	13.14
80	2.50	0.18	24.90	27.38	36.85	40.52
120	3.00	0.13	40.47	44.50	77.32	85.02
170	3.50	0.09	11.96	13.15	89.28	98.17
200	3.75	0.07	0.39	0.43	89.67	98.60
230	4.00	0.06	0.09	0.10	89.76	98.70

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.38	2.99	2.89	2.61	2.22	2.05	1.47

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.51	0.18	0.56	-1.49	8.06

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-031 -12

Analysis Date: 06-01-20

Analyzed By: SP

Easting (ft): 2,931,070	Northing (ft): 990,325	Coordinate System: North Carolina State Plane	Elevation (ft): -11.9 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 88.29	Wash Weight (g): 86.78	Pan Retained (g): 0.06	Sieve Loss (%): 0.00	Fines (%): #200 - 2.07 #230 - 1.80	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.48	0.54	0.48	0.54
3.5	-2.50	5.66	0.01	0.01	0.49	0.55
4	-2.25	4.76	0.02	0.02	0.51	0.57
5	-2.00	4.00	0.06	0.07	0.57	0.64
7	-1.50	2.83	0.01	0.01	0.58	0.65
10	-1.00	2.00	0.12	0.14	0.70	0.79
14	-0.50	1.41	0.02	0.02	0.72	0.81
18	0.00	1.00	0.05	0.06	0.77	0.87
25	0.50	0.71	0.03	0.03	0.80	0.90
35	1.00	0.50	0.03	0.03	0.83	0.93
45	1.50	0.35	0.10	0.11	0.93	1.04
60	2.00	0.25	0.26	0.29	1.19	1.33
80	2.50	0.18	15.10	17.10	16.29	18.43
120	3.00	0.13	49.97	56.60	66.26	75.03
170	3.50	0.09	19.28	21.84	85.54	96.87
200	3.75	0.07	0.94	1.06	86.48	97.93
230	4.00	0.06	0.24	0.27	86.72	98.20

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.46	3.21	3.00	2.78	2.56	2.43	2.11

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.73	0.15	0.61	-6.16	58.1

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-031 -14

Analysis Date: 06-01-20

Analyzed By: SP

Easting (ft): 2,927,556	Northing (ft): 1,004,723	Coordinate System: North Carolina State Plane	Elevation (ft): -14.3 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 91.40	Wash Weight (g): 89.88	Pan Retained (g): 0.05	Sieve Loss (%): 0.01	Fines (%): #200 - 2.04 #230 - 1.76	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.05	0.05	0.05	0.05
7	-1.50	2.83	0.02	0.02	0.07	0.07
10	-1.00	2.00	0.04	0.04	0.11	0.11
14	-0.50	1.41	0.04	0.04	0.15	0.15
18	0.00	1.00	0.03	0.03	0.18	0.18
25	0.50	0.71	0.03	0.03	0.21	0.21
35	1.00	0.50	0.03	0.03	0.24	0.24
45	1.50	0.35	0.11	0.12	0.35	0.36
60	2.00	0.25	0.25	0.27	0.60	0.63
80	2.50	0.18	6.85	7.49	7.45	8.12
120	3.00	0.13	51.51	56.36	58.96	64.48
170	3.50	0.09	29.33	32.09	88.29	96.57
200	3.75	0.07	1.27	1.39	89.56	97.96
230	4.00	0.06	0.26	0.28	89.82	98.24

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.48	3.30	3.16	2.87	2.65	2.57	2.29

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	2.88	0.14	0.38	-3.14	37.47

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-031 -16

Analysis Date: 06-01-20

Analyzed By: SP

Easting (ft): 2,927,764	Northing (ft): 1,004,764	Coordinate System: North Carolina State Plane	Elevation (ft): -16.2 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-6/2 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 85.98	Wash Weight (g): 84.22	Pan Retained (g): 0.13	Sieve Loss (%): 0.03	Fines (%): #200 - 3.78 #230 - 2.24	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.10	0.12	0.10	0.12
5	-2.00	4.00	0.02	0.02	0.12	0.14
7	-1.50	2.83	0.07	0.08	0.19	0.22
10	-1.00	2.00	0.00	0.00	0.19	0.22
14	-0.50	1.41	0.02	0.02	0.21	0.24
18	0.00	1.00	0.01	0.01	0.22	0.25
25	0.50	0.71	0.02	0.02	0.24	0.27
35	1.00	0.50	0.07	0.08	0.31	0.35
45	1.50	0.35	0.16	0.19	0.47	0.54
60	2.00	0.25	0.37	0.43	0.84	0.97
80	2.50	0.18	2.17	2.52	3.01	3.49
120	3.00	0.13	39.85	46.35	42.86	49.84
170	3.50	0.09	37.84	44.01	80.70	93.85
200	3.75	0.07	2.04	2.37	82.74	96.22
230	4.00	0.06	1.32	1.54	84.06	97.76

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.62	3.39	3.29	3.00	2.73	2.63	2.52
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.98	0.13	0.42	-4.6	54.86	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-031 -18

Analysis Date: 06-01-20

Analyzed By: SP

Easting (ft): 2,928,024	Northing (ft): 1,004,820	Coordinate System: North Carolina State Plane	Elevation (ft): -18.2 NAVD88
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USCS: SP-SM	Munsell: Wet - 10Y-3/2 Dry - 5Y-6/1 Washed - 5Y-6/1	Comments:
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Dry Weight (g): 89.84	Wash Weight (g): 87.53	Pan Retained (g): 0.39	Sieve Loss (%): 0.02	Fines (%): #200 - 5.33 #230 - 3.04	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.22	0.24	0.22	0.24
5	-2.00	4.00	0.07	0.08	0.29	0.32
7	-1.50	2.83	0.08	0.09	0.37	0.41
10	-1.00	2.00	0.00	0.00	0.37	0.41
14	-0.50	1.41	0.01	0.01	0.38	0.42
18	0.00	1.00	0.01	0.01	0.39	0.43
25	0.50	0.71	0.03	0.03	0.42	0.46
35	1.00	0.50	0.08	0.09	0.50	0.55
45	1.50	0.35	0.24	0.27	0.74	0.82
60	2.00	0.25	0.46	0.51	1.20	1.33
80	2.50	0.18	1.79	1.99	2.99	3.32
120	3.00	0.13	22.57	25.12	25.56	28.44
170	3.50	0.09	53.79	59.87	79.35	88.31
200	3.75	0.07	5.71	6.36	85.06	94.67
230	4.00	0.06	2.06	2.29	87.12	96.96

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.79	3.46	3.39	3.18	2.93	2.75	2.53
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	3.1	0.12	0.49	-5.84	60.52	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-031 -20

Analysis Date: 06-01-20

Analyzed By: SP

Easting (ft): 2,928,266	Northing (ft): 1,004,861	Coordinate System: North Carolina State Plane	Elevation (ft): -20.1 NAVD88
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USCS: SP-SM	Munsell: Wet - 10Y-3/2 Dry - 5Y-6/2 Washed - 5Y-6/2	Comments:
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Dry Weight (g): 88.81	Wash Weight (g): 86.47	Pan Retained (g): 0.40	Sieve Loss (%): 0.03	Fines (%): #200 - 5.31 #230 - 3.11	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.02	0.02	0.02	0.02
7	-1.50	2.83	0.02	0.02	0.04	0.04
10	-1.00	2.00	0.02	0.02	0.06	0.06
14	-0.50	1.41	0.02	0.02	0.08	0.08
18	0.00	1.00	0.01	0.01	0.09	0.09
25	0.50	0.71	0.03	0.03	0.12	0.12
35	1.00	0.50	0.07	0.08	0.19	0.20
45	1.50	0.35	0.15	0.17	0.34	0.37
60	2.00	0.25	0.44	0.50	0.78	0.87
80	2.50	0.18	3.23	3.64	4.01	4.51
120	3.00	0.13	25.36	28.56	29.37	33.07
170	3.50	0.09	50.30	56.64	79.67	89.71
200	3.75	0.07	4.42	4.98	84.09	94.69
230	4.00	0.06	1.95	2.20	86.04	96.89

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.79	3.45	3.37	3.15	2.86	2.70	2.51
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	3.08	0.12	0.38	-2.57	25.81	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-046 Dune

Analysis Date: 06-02-20

Analyzed By: SF

Easting (ft): 2,930,089	Northing (ft): 990,062	Coordinate System: North Carolina State Plane	Elevation (ft): 14.6 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 10YR-7/1 Washed - 10YR-7/1	Comments:
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Dry Weight (g): 108.30	Wash Weight (g): 108.18	Pan Retained (g): 0.01	Sieve Loss (%): 0.01	Fines (%): #200 - 0.30 #230 - 0.12	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.02	0.02	0.02	0.02
18	0.00	1.00	0.00	0.00	0.02	0.02
25	0.50	0.71	0.01	0.01	0.03	0.03
35	1.00	0.50	0.00	0.00	0.03	0.03
45	1.50	0.35	2.88	2.66	2.91	2.69
60	2.00	0.25	35.03	32.35	37.94	35.04
80	2.50	0.18	40.51	37.41	78.45	72.45
120	3.00	0.13	25.02	23.10	103.47	95.55
170	3.50	0.09	4.17	3.85	107.64	99.40
200	3.75	0.07	0.33	0.30	107.97	99.70
230	4.00	0.06	0.19	0.18	108.16	99.88

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.99	2.75	2.56	2.20	1.84	1.71	1.54
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	2.22	0.21	0.46	0.28	3.05	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-046 Dune Toe

Analysis Date: 06-02-20

Analyzed By: SF

Easting (ft): 2,930,101	Northing (ft): 990,065	Coordinate System: North Carolina State Plane	Elevation (ft): 10.5 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 106.92	Wash Weight (g): 106.80	Pan Retained (g): 0.02	Sieve Loss (%): 0.00	Fines (%): #200 - 0.21 #230 - 0.14	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.00	0.00	0.01	0.01
35	1.00	0.50	0.04	0.04	0.05	0.05
45	1.50	0.35	1.34	1.25	1.39	1.30
60	2.00	0.25	22.60	21.14	23.99	22.44
80	2.50	0.18	54.37	50.85	78.36	73.29
120	3.00	0.13	24.70	23.10	103.06	96.39
170	3.50	0.09	3.34	3.12	106.40	99.51
200	3.75	0.07	0.30	0.28	106.70	99.79
230	4.00	0.06	0.08	0.07	106.78	99.86

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.97	2.73	2.54	2.27	2.03	1.85	1.59
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.28	0.21	0.4	0.18	3.55	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-046 Mid-Berm

Analysis Date: 06-02-20

Analyzed By: SF

Easting (ft): 2,930,187	Northing (ft): 990,088	Coordinate System: North Carolina State Plane	Elevation (ft): 3.2 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 92.98	Wash Weight (g): 92.12	Pan Retained (g): 0.00	Sieve Loss (%): 0.00	Fines (%): #200 - 0.96 #230 - 0.92	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.02	0.02	0.02	0.02
35	1.00	0.50	0.60	0.65	0.62	0.67
45	1.50	0.35	8.03	8.64	8.65	9.31
60	2.00	0.25	25.32	27.23	33.97	36.54
80	2.50	0.18	41.07	44.17	75.04	80.71
120	3.00	0.13	14.99	16.12	90.03	96.83
170	3.50	0.09	1.93	2.08	91.96	98.91
200	3.75	0.07	0.12	0.13	92.08	99.04
230	4.00	0.06	0.04	0.04	92.12	99.08

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.94	2.60	2.44	2.15	1.79	1.62	1.25

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.12	0.23	0.47	-0.1	3.14

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-046 MHW

Analysis Date: 06-02-20

Analyzed By: SF

Easting (ft): 2,930,229	Northing (ft): 990,099	Coordinate System: North Carolina State Plane	Elevation (ft): 1.3 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-8/1	Comments:
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Dry Weight (g): 91.75	Wash Weight (g): 90.72	Pan Retained (g): 0.01	Sieve Loss (%): 0.02	Fines (%): #200 - 1.19 #230 - 1.16	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.11	0.12	0.11	0.12
7	-1.50	2.83	0.02	0.02	0.13	0.14
10	-1.00	2.00	0.07	0.08	0.20	0.22
14	-0.50	1.41	0.11	0.12	0.31	0.34
18	0.00	1.00	0.21	0.23	0.52	0.57
25	0.50	0.71	0.25	0.27	0.77	0.84
35	1.00	0.50	1.26	1.37	2.03	2.21
45	1.50	0.35	7.24	7.89	9.27	10.10
60	2.00	0.25	26.70	29.10	35.97	39.20
80	2.50	0.18	31.27	34.08	67.24	73.28
120	3.00	0.13	20.83	22.70	88.07	95.98
170	3.50	0.09	2.51	2.74	90.58	98.72
200	3.75	0.07	0.08	0.09	90.66	98.81
230	4.00	0.06	0.03	0.03	90.69	98.84

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.98	2.74	2.54	2.16	1.76	1.60	1.18

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.12	0.23	0.57	-1.14	8.55

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-046 MT

Analysis Date: 06-02-20

Analyzed By: SF

Easting (ft): 2,930,335	Northing (ft): 990,123	Coordinate System: North Carolina State Plane	Elevation (ft): -0.4 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-8/1	Comments:
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Dry Weight (g): 92.45	Wash Weight (g): 91.53	Pan Retained (g): 0.01	Sieve Loss (%): 0.00	Fines (%): #200 - 1.01 #230 - 1.01	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.25	0.27	0.26	0.28
45	1.50	0.35	7.98	8.63	8.24	8.91
60	2.00	0.25	37.60	40.67	45.84	49.58
80	2.50	0.18	33.85	36.61	79.69	86.19
120	3.00	0.13	10.61	11.48	90.30	97.67
170	3.50	0.09	1.19	1.29	91.49	98.96
200	3.75	0.07	0.03	0.03	91.52	98.99
230	4.00	0.06	0.00	0.00	91.52	98.99

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.88	2.47	2.35	2.01	1.70	1.59	1.27
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.02	0.25	0.43	0.23	3.01	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-046 MLW

Analysis Date: 06-02-20

Analyzed By: SF

Easting (ft): 2,930,406	Northing (ft): 990,142	Coordinate System: North Carolina State Plane	Elevation (ft): -2.4 NAVD88
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USCS: SW	Munsell: Wet - 2.5Y-4/2 Dry - 2.5Y-7/3 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 96.59	Wash Weight (g): 95.62	Pan Retained (g): 0.01	Sieve Loss (%): 0.01	Fines (%): #200 - 1.04 #230 - 1.04	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	2.05	2.12	2.05	2.12
3.5	-2.50	5.66	2.44	2.53	4.49	4.65
4	-2.25	4.76	0.93	0.96	5.42	5.61
5	-2.00	4.00	0.86	0.89	6.28	6.50
7	-1.50	2.83	2.96	3.06	9.24	9.56
10	-1.00	2.00	2.11	2.18	11.35	11.74
14	-0.50	1.41	1.84	1.90	13.19	13.64
18	0.00	1.00	1.51	1.56	14.70	15.20
25	0.50	0.71	2.13	2.21	16.83	17.41
35	1.00	0.50	6.45	6.68	23.28	24.09
45	1.50	0.35	19.04	19.71	42.32	43.80
60	2.00	0.25	30.04	31.10	72.36	74.90
80	2.50	0.18	17.85	18.48	90.21	93.38
120	3.00	0.13	4.98	5.16	95.19	98.54
170	3.50	0.09	0.41	0.42	95.60	98.96
200	3.75	0.07	0.00	0.00	95.60	98.96
230	4.00	0.06	0.00	0.00	95.60	98.96

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.66	2.25	2.00	1.60	1.02	0.18	-2.41
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.15	0.45	1.43	-1.65	4.96	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-046 Trough

Analysis Date: 06-02-20

Analyzed By: SF

Easting (ft): 2,930,602	Northing (ft): 990,198	Coordinate System: North Carolina State Plane	Elevation (ft): -11.2 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-6/2 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 91.56	Wash Weight (g): 88.10	Pan Retained (g): 0.06	Sieve Loss (%): 0.02	Fines (%): #200 - 4.78 #230 - 3.86	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.01	0.01	0.01	0.01
14	-0.50	1.41	0.03	0.03	0.04	0.04
18	0.00	1.00	0.02	0.02	0.06	0.06
25	0.50	0.71	0.07	0.08	0.13	0.14
35	1.00	0.50	0.41	0.45	0.54	0.59
45	1.50	0.35	3.79	4.14	4.33	4.73
60	2.00	0.25	15.70	17.15	20.03	21.88
80	2.50	0.18	22.67	24.76	42.70	46.64
120	3.00	0.13	30.16	32.94	72.86	79.58
170	3.50	0.09	14.26	15.57	87.12	95.15
200	3.75	0.07	0.06	0.07	87.18	95.22
230	4.00	0.06	0.84	0.92	88.02	96.14

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.50	3.14	2.93	2.55	2.06	1.83	1.51
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.46	0.18	0.58	-0.39	3.24	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-046 Bar

Analysis Date: 06-02-20

Analyzed By: SF

Easting (ft): 2,930,874	Northing (ft): 990,288	Coordinate System: North Carolina State Plane	Elevation (ft): -8.7 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 90.98	Wash Weight (g): 90.07	Pan Retained (g): 0.02	Sieve Loss (%): 0.02	Fines (%): #200 - 1.11 #230 - 1.06	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.02	0.02	0.02	0.02
18	0.00	1.00	0.00	0.00	0.02	0.02
25	0.50	0.71	0.02	0.02	0.04	0.04
35	1.00	0.50	0.20	0.22	0.24	0.26
45	1.50	0.35	3.33	3.66	3.57	3.92
60	2.00	0.25	20.51	22.54	24.08	26.46
80	2.50	0.18	35.44	38.95	59.52	65.41
120	3.00	0.13	23.89	26.26	83.41	91.67
170	3.50	0.09	6.29	6.91	89.70	98.58
200	3.75	0.07	0.28	0.31	89.98	98.89
230	4.00	0.06	0.05	0.05	90.03	98.94

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.24	2.85	2.68	2.30	1.97	1.77	1.52
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.3	0.20	0.49	-0.05	3.1	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-046 -12

Analysis Date: 06-02-20

Analyzed By: SF

Easting (ft): 2,931,064	Northing (ft): 990,334	Coordinate System: North Carolina State Plane	Elevation (ft): -11.7 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 90.90	Wash Weight (g): 89.81	Pan Retained (g): 0.01	Sieve Loss (%): 0.03	Fines (%): #200 - 1.30 #230 - 1.24	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.09	0.10	0.09	0.10
5	-2.00	4.00	0.00	0.00	0.09	0.10
7	-1.50	2.83	0.06	0.07	0.15	0.17
10	-1.00	2.00	0.00	0.00	0.15	0.17
14	-0.50	1.41	0.02	0.02	0.17	0.19
18	0.00	1.00	0.03	0.03	0.20	0.22
25	0.50	0.71	0.04	0.04	0.24	0.26
35	1.00	0.50	0.46	0.51	0.70	0.77
45	1.50	0.35	3.50	3.85	4.20	4.62
60	2.00	0.25	15.40	16.94	19.60	21.56
80	2.50	0.18	32.96	36.26	52.56	57.82
120	3.00	0.13	29.16	32.08	81.72	89.90
170	3.50	0.09	7.78	8.56	89.50	98.46
200	3.75	0.07	0.22	0.24	89.72	98.70
230	4.00	0.06	0.05	0.06	89.77	98.76

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.30	2.91	2.77	2.39	2.05	1.84	1.51
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.36	0.19	0.54	-1.25	10.82	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-046 -14

Analysis Date: 06-02-20

Analyzed By: SF

Easting (ft): 2,931,208	Northing (ft): 990,364	Coordinate System: North Carolina State Plane	Elevation (ft): -13.8 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 89.48	Wash Weight (g): 87.34	Pan Retained (g): 0.09	Sieve Loss (%): 0.01	Fines (%): #200 - 3.66 #230 - 2.51	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.09	0.10	0.09	0.10
4	-2.25	4.76	0.00	0.00	0.09	0.10
5	-2.00	4.00	0.04	0.04	0.13	0.14
7	-1.50	2.83	0.07	0.08	0.20	0.22
10	-1.00	2.00	0.24	0.27	0.44	0.49
14	-0.50	1.41	0.21	0.23	0.65	0.72
18	0.00	1.00	0.10	0.11	0.75	0.83
25	0.50	0.71	0.10	0.11	0.85	0.94
35	1.00	0.50	0.12	0.13	0.97	1.07
45	1.50	0.35	0.30	0.34	1.27	1.41
60	2.00	0.25	2.38	2.66	3.65	4.07
80	2.50	0.18	18.35	20.51	22.00	24.58
120	3.00	0.13	47.87	53.50	69.87	78.08
170	3.50	0.09	16.16	18.06	86.03	96.14
200	3.75	0.07	0.18	0.20	86.21	96.34
230	4.00	0.06	1.03	1.15	87.24	97.49

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.47	3.16	2.97	2.74	2.50	2.29	2.02
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.68	0.16	0.55	-3.63	29.6	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-046 -16

Analysis Date: 06-02-20

Analyzed By: SF

Easting (ft): 2,931,207	Northing (ft): 990,362	Coordinate System: North Carolina State Plane	Elevation (ft): -16.1 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 89.12	Wash Weight (g): 86.57	Pan Retained (g): 0.15	Sieve Loss (%): 0.02	Fines (%): #200 - 3.41 #230 - 3.06	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.10	0.11	0.10	0.11
10	-1.00	2.00	0.09	0.10	0.19	0.21
14	-0.50	1.41	0.21	0.24	0.40	0.45
18	0.00	1.00	0.12	0.13	0.52	0.58
25	0.50	0.71	0.06	0.07	0.58	0.65
35	1.00	0.50	0.09	0.10	0.67	0.75
45	1.50	0.35	0.19	0.21	0.86	0.96
60	2.00	0.25	1.32	1.48	2.18	2.44
80	2.50	0.18	18.10	20.31	20.28	22.75
120	3.00	0.13	47.14	52.89	67.42	75.64
170	3.50	0.09	17.79	19.96	85.21	95.60
200	3.75	0.07	0.88	0.99	86.09	96.59
230	4.00	0.06	0.31	0.35	86.40	96.94

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.48	3.21	2.99	2.76	2.52	2.33	2.06
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.72	0.15	0.48	-2.99	25.06	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-046 -18

Analysis Date: 06-02-20

Analyzed By: SF

Easting (ft): 2,931,698	Northing (ft): 990,496	Coordinate System: North Carolina State Plane	Elevation (ft): -18.0 NAVD88
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USCS: SW	Munsell: Wet - 10Y-3/2 Dry - 5Y-6/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 89.86	Wash Weight (g): 87.53	Pan Retained (g): 0.18	Sieve Loss (%): 0.03	Fines (%): #200 - 4.09 #230 - 2.83	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.40	0.45	0.40	0.45
4	-2.25	4.76	0.39	0.43	0.79	0.88
5	-2.00	4.00	0.11	0.12	0.90	1.00
7	-1.50	2.83	0.28	0.31	1.18	1.31
10	-1.00	2.00	0.29	0.32	1.47	1.63
14	-0.50	1.41	0.21	0.23	1.68	1.86
18	0.00	1.00	0.34	0.38	2.02	2.24
25	0.50	0.71	0.79	0.88	2.81	3.12
35	1.00	0.50	1.49	1.66	4.30	4.78
45	1.50	0.35	1.87	2.08	6.17	6.86
60	2.00	0.25	3.24	3.61	9.41	10.47
80	2.50	0.18	7.32	8.15	16.73	18.62
120	3.00	0.13	39.99	44.50	56.72	63.12
170	3.50	0.09	27.24	30.31	83.96	93.43
200	3.75	0.07	2.23	2.48	86.19	95.91
230	4.00	0.06	1.13	1.26	87.32	97.17

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.66	3.34	3.20	2.85	2.57	2.34	1.05

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	2.67	0.16	0.9	-3.25	16.72

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-046 -20

Analysis Date: 06-02-20

Analyzed By: SF

Easting (ft): 2,931,958	Northing (ft): 990,561	Coordinate System: North Carolina State Plane	Elevation (ft): -20.1 NAVD88
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USCS: SW-SM	Munsell: Wet - 10Y-3/2 Dry - 5Y-6/1 Washed - 5Y-6/1	Comments:
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Dry Weight (g): 88.26	Wash Weight (g): 85.43	Pan Retained (g): 0.28	Sieve Loss (%): 0.02	Fines (%): #200 - 6.33 #230 - 3.54	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	1.06	1.20	1.06	1.20
3.5	-2.50	5.66	0.00	0.00	1.06	1.20
4	-2.25	4.76	0.27	0.31	1.33	1.51
5	-2.00	4.00	0.13	0.15	1.46	1.66
7	-1.50	2.83	0.48	0.54	1.94	2.20
10	-1.00	2.00	0.45	0.51	2.39	2.71
14	-0.50	1.41	0.47	0.53	2.86	3.24
18	0.00	1.00	0.51	0.58	3.37	3.82
25	0.50	0.71	0.68	0.77	4.05	4.59
35	1.00	0.50	1.41	1.60	5.46	6.19
45	1.50	0.35	1.88	2.13	7.34	8.32
60	2.00	0.25	3.99	4.52	11.33	12.84
80	2.50	0.18	7.62	8.63	18.95	21.47
120	3.00	0.13	23.20	26.29	42.15	47.76
170	3.50	0.09	35.12	39.79	77.27	87.55
200	3.75	0.07	5.40	6.12	82.67	93.67
230	4.00	0.06	2.46	2.79	85.13	96.46

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.87	3.46	3.34	3.03	2.57	2.18	0.63
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.68	0.16	1.14	-3.04	13.92	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-061 Dune

Analysis Date: 06-02-20

Analyzed By: SF

Easting (ft): 2,933,731	Northing (ft): 975,531	Coordinate System: North Carolina State Plane	Elevation (ft): 16.5 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/3 Dry - 10YR-7/2 Washed - 10YR-8/2	Comments:
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Dry Weight (g): 108.19	Wash Weight (g): 108.03	Pan Retained (g): 0.00	Sieve Loss (%): 0.00	Fines (%): #200 - 0.16 #230 - 0.14	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.08	0.07	0.08	0.07
35	1.00	0.50	3.54	3.27	3.62	3.34
45	1.50	0.35	21.03	19.44	24.65	22.78
60	2.00	0.25	35.43	32.75	60.08	55.53
80	2.50	0.18	39.69	36.69	99.77	92.22
120	3.00	0.13	7.69	7.11	107.46	99.33
170	3.50	0.09	0.50	0.46	107.96	99.79
200	3.75	0.07	0.05	0.05	108.01	99.84
230	4.00	0.06	0.02	0.02	108.03	99.86

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.70	2.39	2.27	1.92	1.53	1.33	1.04
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.88	0.27	0.49	-0.17	2.75	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-061 Dune Toe

Analysis Date: 06-03-20

Analyzed By: SP

Easting (ft): 2,933,747	Northing (ft): 975,534	Coordinate System: North Carolina State Plane	Elevation (ft): 7.9 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-4/1 Dry - 10YR-7/1 Washed - 10YR-7/1	Comments:
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Dry Weight (g): 107.36	Wash Weight (g): 107.30	Pan Retained (g): 0.01	Sieve Loss (%): 0.03	Fines (%): #200 - 0.15 #230 - 0.08	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.01	0.01	0.01	0.01
25	0.50	0.71	0.05	0.05	0.06	0.06
35	1.00	0.50	0.23	0.21	0.29	0.27
45	1.50	0.35	5.86	5.46	6.15	5.73
60	2.00	0.25	34.04	31.71	40.19	37.44
80	2.50	0.18	40.37	37.60	80.56	75.04
120	3.00	0.13	16.78	15.63	97.34	90.67
170	3.50	0.09	9.34	8.70	106.68	99.37
200	3.75	0.07	0.51	0.48	107.19	99.85
230	4.00	0.06	0.07	0.07	107.26	99.92

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.25	2.79	2.50	2.17	1.80	1.66	1.43
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	2.21	0.22	0.53	0.36	2.9	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-061 Mid-Berm

Analysis Date: 06-03-20

Analyzed By: SP

Easting (ft): 2,933,795	Northing (ft): 975,547	Coordinate System: North Carolina State Plane	Elevation (ft): 4.0 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/1 Washed - 2.5Y-8/1	Comments:
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Dry Weight (g): 91.92	Wash Weight (g): 91.05	Pan Retained (g): 0.00	Sieve Loss (%): 0.02	Fines (%): #200 - 1.00 #230 - 0.97	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.06	0.07	0.07	0.08
60	2.00	0.25	13.45	14.63	13.52	14.71
80	2.50	0.18	51.83	56.39	65.35	71.10
120	3.00	0.13	24.17	26.29	89.52	97.39
170	3.50	0.09	1.39	1.51	90.91	98.90
200	3.75	0.07	0.09	0.10	91.00	99.00
230	4.00	0.06	0.03	0.03	91.03	99.03

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.95	2.75	2.57	2.31	2.09	2.01	1.67

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.33	0.20	0.34	0.14	3.2

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-061 MHW

Analysis Date: 06-03-20

Analyzed By: SP

Easting (ft): 2,933,835	Northing (ft): 975,556	Coordinate System: North Carolina State Plane	Elevation (ft): 1.2 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-8/1	Comments:
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Dry Weight (g): 89.32	Wash Weight (g): 88.27	Pan Retained (g): 0.01	Sieve Loss (%): 0.01	Fines (%): #200 - 1.22 #230 - 1.21	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.19	0.21	0.19	0.21
5	-2.00	4.00	0.07	0.08	0.26	0.29
7	-1.50	2.83	0.00	0.00	0.26	0.29
10	-1.00	2.00	0.00	0.00	0.26	0.29
14	-0.50	1.41	0.00	0.00	0.26	0.29
18	0.00	1.00	0.02	0.02	0.28	0.31
25	0.50	0.71	0.03	0.03	0.31	0.34
35	1.00	0.50	0.49	0.55	0.80	0.89
45	1.50	0.35	8.97	10.04	9.77	10.93
60	2.00	0.25	34.22	38.31	43.99	49.24
80	2.50	0.18	32.73	36.64	76.72	85.88
120	3.00	0.13	10.42	11.67	87.14	97.55
170	3.50	0.09	1.06	1.19	88.20	98.74
200	3.75	0.07	0.04	0.04	88.24	98.78
230	4.00	0.06	0.01	0.01	88.25	98.79

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.89	2.47	2.35	2.01	1.68	1.57	1.20
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2	0.25	0.51	-1.7	17.43	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-061 MT

Analysis Date: 06-03-20

Analyzed By: SP

Easting (ft): 2,933,898	Northing (ft): 975,569	Coordinate System: North Carolina State Plane	Elevation (ft): -0.4 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 94.49	Wash Weight (g): 93.67	Pan Retained (g): 0.00	Sieve Loss (%): 0.08	Fines (%): #200 - 0.95 #230 - 0.94	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.85	0.90	0.85	0.90
3.5	-2.50	5.66	0.00	0.00	0.85	0.90
4	-2.25	4.76	0.00	0.00	0.85	0.90
5	-2.00	4.00	0.16	0.17	1.01	1.07
7	-1.50	2.83	0.14	0.15	1.15	1.22
10	-1.00	2.00	0.27	0.29	1.42	1.51
14	-0.50	1.41	0.15	0.16	1.57	1.67
18	0.00	1.00	0.17	0.18	1.74	1.85
25	0.50	0.71	0.30	0.32	2.04	2.17
35	1.00	0.50	1.66	1.76	3.70	3.93
45	1.50	0.35	11.85	12.54	15.55	16.47
60	2.00	0.25	33.93	35.91	49.48	52.38
80	2.50	0.18	32.56	34.46	82.04	86.84
120	3.00	0.13	10.28	10.88	92.32	97.72
170	3.50	0.09	1.24	1.31	93.56	99.03
200	3.75	0.07	0.02	0.02	93.58	99.05
230	4.00	0.06	0.01	0.01	93.59	99.06

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.87	2.46	2.33	1.97	1.62	1.48	1.04

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.89	0.27	0.76	-3.45	22.95

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-061 MLW

Analysis Date: 06-03-20

Analyzed By: SP

Easting (ft): 2,934,005	Northing (ft): 975,592	Coordinate System: North Carolina State Plane	Elevation (ft): -2.2 NAVD88
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USCS: SW	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 96.92	Wash Weight (g): 95.95	Pan Retained (g): 0.00	Sieve Loss (%): 0.08	Fines (%): #200 - 1.10 #230 - 1.09	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	2.18	2.25	2.18	2.25
4	-2.25	4.76	0.31	0.32	2.49	2.57
5	-2.00	4.00	1.01	1.04	3.50	3.61
7	-1.50	2.83	4.73	4.88	8.23	8.49
10	-1.00	2.00	4.46	4.60	12.69	13.09
14	-0.50	1.41	3.93	4.05	16.62	17.14
18	0.00	1.00	2.41	2.49	19.03	19.63
25	0.50	0.71	2.68	2.77	21.71	22.40
35	1.00	0.50	5.49	5.66	27.20	28.06
45	1.50	0.35	12.95	13.36	40.15	41.42
60	2.00	0.25	23.75	24.50	63.90	65.92
80	2.50	0.18	23.64	24.39	87.54	90.31
120	3.00	0.13	7.46	7.70	95.00	98.01
170	3.50	0.09	0.84	0.87	95.84	98.88
200	3.75	0.07	0.02	0.02	95.86	98.90
230	4.00	0.06	0.01	0.01	95.87	98.91

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.80	2.37	2.19	1.68	0.73	-0.64	-1.86

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.18	0.44	1.43	-1.19	3.39

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-061 Trough

Analysis Date: 06-25-20

Analyzed By: SF

Easting (ft): 2,934,441	Northing (ft): 975,697	Coordinate System: North Carolina State Plane	Elevation (ft): -12.9 NAVD88
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USCS: SP-SM	Munsell: Wet - 2.5Y-2.5/1 Dry - 2.5Y-6/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 92.84	Wash Weight (g): 87.25	Pan Retained (g): 0.04	Sieve Loss (%): 0.05	Fines (%): #200 - 6.31 #230 - 6.11	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.07	0.08	0.07	0.08
10	-1.00	2.00	0.15	0.16	0.22	0.24
14	-0.50	1.41	0.10	0.11	0.32	0.35
18	0.00	1.00	0.10	0.11	0.42	0.46
25	0.50	0.71	0.13	0.14	0.55	0.60
35	1.00	0.50	0.20	0.22	0.75	0.82
45	1.50	0.35	0.74	0.80	1.49	1.62
60	2.00	0.25	3.99	4.30	5.48	5.92
80	2.50	0.18	34.14	36.77	39.62	42.69
120	3.00	0.13	36.60	39.42	76.22	82.11
170	3.50	0.09	10.19	10.98	86.41	93.09
200	3.75	0.07	0.56	0.60	86.97	93.69
230	4.00	0.06	0.19	0.20	87.16	93.89

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
	3.09	2.91	2.59	2.26	2.14	1.89
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.54	0.17	0.49	-2.05	16.97	

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-061 Bar

Analysis Date: 06-25-20

Analyzed By: SF

Easting (ft): 2,934,646	Northing (ft): 975,743	Coordinate System: North Carolina State Plane	Elevation (ft): -9.5 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/1 Dry - 2.5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 95.20	Wash Weight (g): 94.23	Pan Retained (g): 0.02	Sieve Loss (%): 0.02	Fines (%): #200 - 1.31 #230 - 1.08	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.07	0.07	0.07	0.07
10	-1.00	2.00	0.10	0.11	0.17	0.18
14	-0.50	1.41	0.06	0.06	0.23	0.24
18	0.00	1.00	0.11	0.12	0.34	0.36
25	0.50	0.71	0.09	0.09	0.43	0.45
35	1.00	0.50	0.26	0.27	0.69	0.72
45	1.50	0.35	0.83	0.87	1.52	1.59
60	2.00	0.25	7.01	7.36	8.53	8.95
80	2.50	0.18	25.47	26.75	34.00	35.70
120	3.00	0.13	43.11	45.28	77.11	80.98
170	3.50	0.09	16.01	16.82	93.12	97.80
200	3.75	0.07	0.85	0.89	93.97	98.69
230	4.00	0.06	0.22	0.23	94.19	98.92

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.42	3.09	2.93	2.66	2.30	2.13	1.73

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.6	0.16	0.51	-1.66	12.45

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-061 -12

Analysis Date: 06-30-20

Analyzed By: SF

Easting (ft): 2,934,790	Northing (ft): 975,777	Coordinate System: North Carolina State Plane	Elevation (ft): -12.3 NAVD88
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USCS: SW	Munsell: Wet - 2.5Y-5/2 Dry - 5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 97.58	Wash Weight (g): 96.60	Pan Retained (g): 0.03	Sieve Loss (%): 0.03	Fines (%): #200 - 1.26 #230 - 1.11	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.14	0.14	0.14	0.14
4	-2.25	4.76	0.17	0.17	0.31	0.31
5	-2.00	4.00	0.20	0.20	0.51	0.51
7	-1.50	2.83	0.88	0.90	1.39	1.41
10	-1.00	2.00	1.22	1.25	2.61	2.66
14	-0.50	1.41	1.10	1.13	3.71	3.79
18	0.00	1.00	0.59	0.60	4.30	4.39
25	0.50	0.71	0.53	0.54	4.83	4.93
35	1.00	0.50	0.60	0.61	5.43	5.54
45	1.50	0.35	0.90	0.92	6.33	6.46
60	2.00	0.25	4.19	4.29	10.52	10.75
80	2.50	0.18	25.20	25.82	35.72	36.57
120	3.00	0.13	48.51	49.71	84.23	86.28
170	3.50	0.09	11.60	11.89	95.83	98.17
200	3.75	0.07	0.56	0.57	96.39	98.74
230	4.00	0.06	0.15	0.15	96.54	98.89

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.37	2.98	2.89	2.64	2.28	2.10	0.56
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.43	0.19	0.92	-3.09	13.71	

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-061 -14

Analysis Date: 06-30-20

Analyzed By: SF

Easting (ft): 2,934,898	Northing (ft): 975,802	Coordinate System: North Carolina State Plane	Elevation (ft): -14.1 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/2 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 94.41	Wash Weight (g): 93.10	Pan Retained (g): 0.04	Sieve Loss (%): 0.01	Fines (%): #200 - 1.75 #230 - 1.45	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.49	0.52	0.49	0.52
3.5	-2.50	5.66	0.00	0.00	0.49	0.52
4	-2.25	4.76	0.00	0.00	0.49	0.52
5	-2.00	4.00	0.07	0.07	0.56	0.59
7	-1.50	2.83	0.05	0.05	0.61	0.64
10	-1.00	2.00	0.07	0.07	0.68	0.71
14	-0.50	1.41	0.07	0.07	0.75	0.78
18	0.00	1.00	0.06	0.06	0.81	0.84
25	0.50	0.71	0.03	0.03	0.84	0.87
35	1.00	0.50	0.06	0.06	0.90	0.93
45	1.50	0.35	0.13	0.14	1.03	1.07
60	2.00	0.25	1.73	1.83	2.76	2.90
80	2.50	0.18	18.18	19.26	20.94	22.16
120	3.00	0.13	57.68	61.10	78.62	83.26
170	3.50	0.09	13.47	14.27	92.09	97.53
200	3.75	0.07	0.68	0.72	92.77	98.25
230	4.00	0.06	0.28	0.30	93.05	98.55

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.41	3.03	2.93	2.73	2.52	2.34	2.05

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.67	0.16	0.6	-6.09	57.77

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-061 -16

Analysis Date: 06-30-20

Analyzed By: SF

Easting (ft): 2,935,052	Northing (ft): 975,837	Coordinate System: North Carolina State Plane	Elevation (ft): -16.1 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-6/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 93.14	Wash Weight (g): 91.43	Pan Retained (g): 0.11	Sieve Loss (%): 0.05	Fines (%): #200 - 2.56 #230 - 2.02	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.09	0.10	0.09	0.10
7	-1.50	2.83	0.01	0.01	0.10	0.11
10	-1.00	2.00	0.04	0.04	0.14	0.15
14	-0.50	1.41	0.05	0.05	0.19	0.20
18	0.00	1.00	0.03	0.03	0.22	0.23
25	0.50	0.71	0.04	0.04	0.26	0.27
35	1.00	0.50	0.04	0.04	0.30	0.31
45	1.50	0.35	0.14	0.15	0.44	0.46
60	2.00	0.25	1.00	1.07	1.44	1.53
80	2.50	0.18	5.99	6.43	7.43	7.96
120	3.00	0.13	40.13	43.09	47.56	51.05
170	3.50	0.09	41.16	44.19	88.72	95.24
200	3.75	0.07	2.05	2.20	90.77	97.44
230	4.00	0.06	0.50	0.54	91.27	97.98

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.50	3.37	3.27	2.99	2.70	2.59	2.27
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	2.94	0.13	0.42	-3.35	34.17	

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-061 -18

Analysis Date: 06-03-20

Analyzed By: SP

Easting (ft): 2,935,274	Northing (ft): 975,918	Coordinate System: North Carolina State Plane	Elevation (ft): -20.0 NAVD88
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USCS: SP-SM	Munsell: Wet - 5Y-3/2 Dry - 5Y-6/2 Washed - 5Y-6/1	Comments:
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Dry Weight (g): 88.95	Wash Weight (g): 86.16	Pan Retained (g): 0.29	Sieve Loss (%): 0.09	Fines (%): #200 - 11.19 #230 - 3.58	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.12	0.13	0.12	0.13
10	-1.00	2.00	0.04	0.04	0.16	0.17
14	-0.50	1.41	0.02	0.02	0.18	0.19
18	0.00	1.00	0.02	0.02	0.20	0.21
25	0.50	0.71	0.03	0.03	0.23	0.24
35	1.00	0.50	0.07	0.08	0.30	0.32
45	1.50	0.35	0.33	0.37	0.63	0.69
60	2.00	0.25	2.43	2.73	3.06	3.42
80	2.50	0.18	7.11	7.99	10.17	11.41
120	3.00	0.13	26.64	29.95	36.81	41.36
170	3.50	0.09	42.01	47.23	78.82	88.59
200	3.75	0.07	0.20	0.22	79.02	88.81
230	4.00	0.06	6.77	7.61	85.79	96.42

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.95	3.45	3.36	3.09	2.73	2.58	2.10
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	3	0.13	0.52	-2	16.28	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-061 -20

Analysis Date: 06-04-20

Analyzed By: SF

Easting (ft): 2,935,531	Northing (ft): 975,952	Coordinate System: North Carolina State Plane	Elevation (ft): -18.1 NAVD88
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USCS: SP-SM	Munsell: Wet - 5Y-3/2 Dry - 5Y-6/2 Washed - 5Y-6/1	Comments:
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Dry Weight (g): 90.04	Wash Weight (g): 87.42	Pan Retained (g): 0.46	Sieve Loss (%): 0.01	Fines (%): #200 - 6.03 #230 - 3.42	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.09	0.10	0.09	0.10
5	-2.00	4.00	0.30	0.33	0.39	0.43
7	-1.50	2.83	0.26	0.29	0.65	0.72
10	-1.00	2.00	0.29	0.32	0.94	1.04
14	-0.50	1.41	0.19	0.21	1.13	1.25
18	0.00	1.00	0.10	0.11	1.23	1.36
25	0.50	0.71	0.19	0.21	1.42	1.57
35	1.00	0.50	0.27	0.30	1.69	1.87
45	1.50	0.35	1.14	1.27	2.83	3.14
60	2.00	0.25	4.48	4.98	7.31	8.12
80	2.50	0.18	10.19	11.32	17.50	19.44
120	3.00	0.13	23.76	26.39	41.26	45.83
170	3.50	0.09	37.03	41.13	78.29	86.96
200	3.75	0.07	6.31	7.01	84.60	93.97
230	4.00	0.06	2.35	2.61	86.95	96.58

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.85	3.46	3.35	3.05	2.61	2.35	1.69

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.86	0.14	0.76	-3.07	17.94

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-075 Dune

Analysis Date: 06-04-20

Analyzed By: SF

Easting (ft): 2,937,125	Northing (ft): 961,928	Coordinate System: North Carolina State Plane	Elevation (ft): 16.3 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 5Y-7/2 Washed - 5Y-7/2	Comments:
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Dry Weight (g): 105.92	Wash Weight (g): 105.80	Pan Retained (g): 0.00	Sieve Loss (%): 0.00	Fines (%): #200 - 0.15 #230 - 0.10	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.00	0.00	0.00	0.00
35	1.00	0.50	0.02	0.02	0.02	0.02
45	1.50	0.35	2.51	2.37	2.53	2.39
60	2.00	0.25	39.04	36.86	41.57	39.25
80	2.50	0.18	48.39	45.69	89.96	84.94
120	3.00	0.13	13.93	13.15	103.89	98.09
170	3.50	0.09	1.64	1.55	105.53	99.64
200	3.75	0.07	0.22	0.21	105.75	99.85
230	4.00	0.06	0.05	0.05	105.80	99.90

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.88	2.49	2.39	2.12	1.81	1.68	1.54

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.13	0.23	0.39	0.46	3.41

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-075 Dune Toe

Analysis Date: 06-04-20

Analyzed By: SF

Easting (ft): 2,937,148	Northing (ft): 961,934	Coordinate System: North Carolina State Plane	Elevation (ft): 8.0 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 106.08	Wash Weight (g): 106.01	Pan Retained (g): 0.00	Sieve Loss (%): 0.00	Fines (%): #200 - 0.15 #230 - 0.07	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.04	0.04	0.04	0.04
35	1.00	0.50	0.12	0.11	0.16	0.15
45	1.50	0.35	1.30	1.23	1.46	1.38
60	2.00	0.25	46.39	43.73	47.85	45.11
80	2.50	0.18	46.41	43.75	94.26	88.86
120	3.00	0.13	10.10	9.52	104.36	98.38
170	3.50	0.09	1.41	1.33	105.77	99.71
200	3.75	0.07	0.15	0.14	105.92	99.85
230	4.00	0.06	0.09	0.08	106.01	99.93

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.82	2.44	2.34	2.06	1.77	1.67	1.54
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.08	0.24	0.37	0.66	4.14	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-075 Mid-Berm

Analysis Date: 06-04-20

Analyzed By: SF

Easting (ft): 2,937,182	Northing (ft): 961,942	Coordinate System: North Carolina State Plane	Elevation (ft): 4.6 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/1 Washed - 2.5Y-8/1	Comments:
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Dry Weight (g): 107.47	Wash Weight (g): 107.22	Pan Retained (g): 0.00	Sieve Loss (%): 0.00	Fines (%): #200 - 0.26 #230 - 0.23	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.00	0.00	0.00	0.00
35	1.00	0.50	0.01	0.01	0.01	0.01
45	1.50	0.35	0.48	0.45	0.49	0.46
60	2.00	0.25	27.02	25.14	27.51	25.60
80	2.50	0.18	65.31	60.77	92.82	86.37
120	3.00	0.13	12.94	12.04	105.76	98.41
170	3.50	0.09	1.27	1.18	107.03	99.59
200	3.75	0.07	0.16	0.15	107.19	99.74
230	4.00	0.06	0.03	0.03	107.22	99.77

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.86	2.48	2.41	2.20	1.99	1.81	1.59
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.19	0.22	0.33	0.39	4	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-075 MHW

Analysis Date: 06-04-20

Analyzed By: SF

Easting (ft): 2,937,239	Northing (ft): 961,954	Coordinate System: North Carolina State Plane	Elevation (ft): 1.3 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-8/1	Comments:
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Dry Weight (g): 91.50	Wash Weight (g): 90.54	Pan Retained (g): 0.01	Sieve Loss (%): 0.00	Fines (%): #200 - 1.07 #230 - 1.06	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.07	0.08	0.07	0.08
7	-1.50	2.83	0.00	0.00	0.07	0.08
10	-1.00	2.00	0.07	0.08	0.14	0.16
14	-0.50	1.41	0.02	0.02	0.16	0.18
18	0.00	1.00	0.01	0.01	0.17	0.19
25	0.50	0.71	0.03	0.03	0.20	0.22
35	1.00	0.50	0.28	0.31	0.48	0.53
45	1.50	0.35	4.40	4.81	4.88	5.34
60	2.00	0.25	41.06	44.87	45.94	50.21
80	2.50	0.18	35.72	39.04	81.66	89.25
120	3.00	0.13	8.19	8.95	89.85	98.20
170	3.50	0.09	0.63	0.69	90.48	98.89
200	3.75	0.07	0.04	0.04	90.52	98.93
230	4.00	0.06	0.01	0.01	90.53	98.94

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.82	2.43	2.32	2.00	1.72	1.62	1.46

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.02	0.25	0.42	-0.97	13.69

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-075 MT

Analysis Date: 06-04-20

Analyzed By: SF

Easting (ft): 2,937,281	Northing (ft): 961,965	Coordinate System: North Carolina State Plane	Elevation (ft): -0.4 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 2.5Y-8/1	Comments:
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Dry Weight (g): 91.17	Wash Weight (g): 90.34	Pan Retained (g): 0.02	Sieve Loss (%): 0.01	Fines (%): #200 - 0.96 #230 - 0.94	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.89	0.98	0.89	0.98
3.5	-2.50	5.66	0.00	0.00	0.89	0.98
4	-2.25	4.76	0.00	0.00	0.89	0.98
5	-2.00	4.00	0.00	0.00	0.89	0.98
7	-1.50	2.83	0.07	0.08	0.96	1.06
10	-1.00	2.00	0.05	0.05	1.01	1.11
14	-0.50	1.41	0.07	0.08	1.08	1.19
18	0.00	1.00	0.01	0.01	1.09	1.20
25	0.50	0.71	0.06	0.07	1.15	1.27
35	1.00	0.50	0.38	0.42	1.53	1.69
45	1.50	0.35	6.10	6.69	7.63	8.38
60	2.00	0.25	38.05	41.74	45.68	50.12
80	2.50	0.18	31.59	34.65	77.27	84.77
120	3.00	0.13	11.91	13.06	89.18	97.83
170	3.50	0.09	1.07	1.17	90.25	99.00
200	3.75	0.07	0.04	0.04	90.29	99.04
230	4.00	0.06	0.02	0.02	90.31	99.06

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.89	2.49	2.36	2.00	1.70	1.59	1.25

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.98	0.25	0.7	-4.26	33.13

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-075 MLW

Analysis Date: 06-04-20

Analyzed By: SF

Easting (ft): 2,937,341	Northing (ft): 961,985	Coordinate System: North Carolina State Plane	Elevation (ft): -2.2 NAVD88
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USCS: SW	Munsell: Wet - 2.5Y-4/2 Dry - 2.5Y-7/3 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 94.40	Wash Weight (g): 93.17	Pan Retained (g): 0.00	Sieve Loss (%): 0.01	Fines (%): #200 - 1.34 #230 - 1.33	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.92	0.97	0.92	0.97
4	-2.25	4.76	0.66	0.70	1.58	1.67
5	-2.00	4.00	1.12	1.19	2.70	2.86
7	-1.50	2.83	0.83	0.88	3.53	3.74
10	-1.00	2.00	0.70	0.74	4.23	4.48
14	-0.50	1.41	0.39	0.41	4.62	4.89
18	0.00	1.00	0.24	0.25	4.86	5.14
25	0.50	0.71	0.52	0.55	5.38	5.69
35	1.00	0.50	3.93	4.16	9.31	9.85
45	1.50	0.35	22.48	23.81	31.79	33.66
60	2.00	0.25	35.19	37.28	66.98	70.94
80	2.50	0.18	20.89	22.13	87.87	93.07
120	3.00	0.13	4.86	5.15	92.73	98.22
170	3.50	0.09	0.40	0.42	93.13	98.64
200	3.75	0.07	0.02	0.02	93.15	98.66
230	4.00	0.06	0.01	0.01	93.16	98.67

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.69	2.30	2.09	1.72	1.32	1.13	-0.28

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.56	0.34	0.96	-2.57	11.1

CURRITUCK COUNTY BEACH 2020.GPJ 8/12/20

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: Currituck Beach Monitoring 2020

Sample Name: C-075 Trough

Analysis Date: 06-25-20

Analyzed By: SF

Easting (ft): 2,937,820	Northing (ft): 962,089	Coordinate System: North Carolina State Plane	Elevation (ft): -13.0 NAVD88
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USCS: SM	Munsell: Wet - 2.5Y-2.5/1 Dry - 5Y-6/2 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 78.67	Wash Weight (g): 66.33	Pan Retained (g): 0.04	Sieve Loss (%): 0.01	Fines (%): #200 - 16.36 #230 - 15.75	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.01	0.01	0.01	0.01
10	-1.00	2.00	0.06	0.08	0.07	0.09
14	-0.50	1.41	0.11	0.14	0.18	0.23
18	0.00	1.00	0.15	0.19	0.33	0.42
25	0.50	0.71	0.24	0.31	0.57	0.73
35	1.00	0.50	1.48	1.88	2.05	2.61
45	1.50	0.35	6.05	7.69	8.10	10.30
60	2.00	0.25	12.62	16.04	20.72	26.34
80	2.50	0.18	19.18	24.38	39.90	50.72
120	3.00	0.13	20.59	26.17	60.49	76.89
170	3.50	0.09	5.26	6.69	65.75	83.58
200	3.75	0.07	0.05	0.06	65.80	83.64
230	4.00	0.06	0.48	0.61	66.28	84.25

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
	3.90	2.96	2.49	1.96	1.68	1.16
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.26	0.21	0.65	-0.74	4.61	

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-075 Bar

Analysis Date: 06-25-20

Analyzed By: SF

Easting (ft): 2,938,072	Northing (ft): 962,148	Coordinate System: North Carolina State Plane	Elevation (ft): -10.1 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/1 Dry - 2.5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 95.40	Wash Weight (g): 94.50	Pan Retained (g): 0.01	Sieve Loss (%): 0.01	Fines (%): #200 - 1.10 #230 - 0.96	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.05	0.05	0.05	0.05
10	-1.00	2.00	0.15	0.16	0.20	0.21
14	-0.50	1.41	0.24	0.25	0.44	0.46
18	0.00	1.00	0.16	0.17	0.60	0.63
25	0.50	0.71	0.18	0.19	0.78	0.82
35	1.00	0.50	0.59	0.62	1.37	1.44
45	1.50	0.35	2.37	2.48	3.74	3.92
60	2.00	0.25	8.39	8.79	12.13	12.71
80	2.50	0.18	32.70	34.28	44.83	46.99
120	3.00	0.13	35.74	37.46	80.57	84.45
170	3.50	0.09	13.20	13.84	93.77	98.29
200	3.75	0.07	0.58	0.61	94.35	98.90
230	4.00	0.06	0.13	0.14	94.48	99.04

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.38	2.99	2.87	2.54	2.18	2.05	1.56

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	2.49	0.18	0.57	-1.65	10.6

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-075 -12

Analysis Date: 06-25-20

Analyzed By: SF

Easting (ft): 2,938,235	Northing (ft): 962,184	Coordinate System: North Carolina State Plane	Elevation (ft): -12.0 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/1 Dry - 2.5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 97.44	Wash Weight (g): 96.62	Pan Retained (g): 0.01	Sieve Loss (%): 0.03	Fines (%): #200 - 1.72 #230 - 0.89	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.08	0.08	0.08	0.08
10	-1.00	2.00	0.09	0.09	0.17	0.17
14	-0.50	1.41	0.11	0.11	0.28	0.28
18	0.00	1.00	0.11	0.11	0.39	0.39
25	0.50	0.71	0.14	0.14	0.53	0.53
35	1.00	0.50	0.81	0.83	1.34	1.36
45	1.50	0.35	4.41	4.53	5.75	5.89
60	2.00	0.25	14.54	14.92	20.29	20.81
80	2.50	0.18	31.80	32.64	52.09	53.45
120	3.00	0.13	35.32	36.25	87.41	89.70
170	3.50	0.09	8.29	8.51	95.70	98.21
200	3.75	0.07	0.07	0.07	95.77	98.28
230	4.00	0.06	0.81	0.83	96.58	99.11

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.31	2.92	2.80	2.45	2.06	1.84	1.40

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	2.38	0.19	0.58	-1.11	7.74

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-075 -14

Analysis Date: 06-25-20

Analyzed By: SF

Easting (ft): 2,938,336	Northing (ft): 962,208	Coordinate System: North Carolina State Plane	Elevation (ft): -14.3 NAVD88
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USCS: SW	Munsell: Wet - 2.5Y-4/1 Dry - 2.5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 95.65	Wash Weight (g): 94.69	Pan Retained (g): 0.01	Sieve Loss (%): 0.03	Fines (%): #200 - 1.19 #230 - 1.05	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	1.32	1.38	1.32	1.38
5/16"	-3.00	8.00	0.00	0.00	1.32	1.38
3.5	-2.50	5.66	0.00	0.00	1.32	1.38
4	-2.25	4.76	0.00	0.00	1.32	1.38
5	-2.00	4.00	0.25	0.26	1.57	1.64
7	-1.50	2.83	0.86	0.90	2.43	2.54
10	-1.00	2.00	1.06	1.11	3.49	3.65
14	-0.50	1.41	0.72	0.75	4.21	4.40
18	0.00	1.00	0.46	0.48	4.67	4.88
25	0.50	0.71	0.43	0.45	5.10	5.33
35	1.00	0.50	0.94	0.98	6.04	6.31
45	1.50	0.35	2.48	2.59	8.52	8.90
60	2.00	0.25	8.23	8.60	16.75	17.50
80	2.50	0.18	34.55	36.12	51.30	53.62
120	3.00	0.13	34.44	36.01	85.74	89.63
170	3.50	0.09	8.42	8.80	94.16	98.43
200	3.75	0.07	0.36	0.38	94.52	98.81
230	4.00	0.06	0.13	0.14	94.65	98.95

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.31	2.92	2.80	2.45	2.10	1.91	0.13
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.23	0.21	1.1	-3.34	16.16	

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-075 -16

Analysis Date: 06-25-20

Analyzed By: SF

Easting (ft): 2,938,463	Northing (ft): 962,237	Coordinate System: North Carolina State Plane	Elevation (ft): -16.2 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 94.02	Wash Weight (g): 92.86	Pan Retained (g): 0.03	Sieve Loss (%): 0.03	Fines (%): #200 - 2.17 #230 - 1.30	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.30	0.32	0.30	0.32
7	-1.50	2.83	0.36	0.38	0.66	0.70
10	-1.00	2.00	0.25	0.27	0.91	0.97
14	-0.50	1.41	0.16	0.17	1.07	1.14
18	0.00	1.00	0.11	0.12	1.18	1.26
25	0.50	0.71	0.06	0.06	1.24	1.32
35	1.00	0.50	0.08	0.09	1.32	1.41
45	1.50	0.35	0.17	0.18	1.49	1.59
60	2.00	0.25	2.10	2.23	3.59	3.82
80	2.50	0.18	19.96	21.23	23.55	25.05
120	3.00	0.13	55.50	59.03	79.05	84.08
170	3.50	0.09	12.91	13.73	91.96	97.81
200	3.75	0.07	0.02	0.02	91.98	97.83
230	4.00	0.06	0.82	0.87	92.80	98.70

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.40	3.00	2.92	2.71	2.50	2.29	2.03

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	2.64	0.16	0.59	-4.45	33.3

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-075 -18

Analysis Date: 06-25-20

Analyzed By: SF

Easting (ft): 2,938,616	Northing (ft): 962,272	Coordinate System: North Carolina State Plane	Elevation (ft): -18.2 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/2 Dry - 5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 93.02	Wash Weight (g): 91.67	Pan Retained (g): 0.04	Sieve Loss (%): 0.01	Fines (%): #200 - 1.80 #230 - 1.53	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.86	0.92	0.86	0.92
3.5	-2.50	5.66	0.00	0.00	0.86	0.92
4	-2.25	4.76	0.00	0.00	0.86	0.92
5	-2.00	4.00	0.00	0.00	0.86	0.92
7	-1.50	2.83	0.00	0.00	0.86	0.92
10	-1.00	2.00	0.04	0.04	0.90	0.96
14	-0.50	1.41	0.01	0.01	0.91	0.97
18	0.00	1.00	0.02	0.02	0.93	0.99
25	0.50	0.71	0.03	0.03	0.96	1.02
35	1.00	0.50	0.03	0.03	0.99	1.05
45	1.50	0.35	0.13	0.14	1.12	1.19
60	2.00	0.25	1.12	1.20	2.24	2.39
80	2.50	0.18	31.72	34.10	33.96	36.49
120	3.00	0.13	45.22	48.61	79.18	85.10
170	3.50	0.09	11.49	12.35	90.67	97.45
200	3.75	0.07	0.70	0.75	91.37	98.20
230	4.00	0.06	0.25	0.27	91.62	98.47

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.40	2.99	2.90	2.64	2.33	2.20	2.04

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.57	0.17	0.68	-5.9	51.2

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-075 -20

Analysis Date: 06-25-20

Analyzed By: SF

Easting (ft): 2,938,841	Northing (ft): 962,324	Coordinate System: North Carolina State Plane	Elevation (ft): -20.1 NAVD88
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USCS: SP-SM	Munsell: Wet - 5Y-4/1 Dry - 5Y-6/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 90.96	Wash Weight (g): 87.99	Pan Retained (g): 0.12	Sieve Loss (%): 0.01	Fines (%): #200 - 7.13 #230 - 3.41	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.06	0.07	0.06	0.07
7	-1.50	2.83	0.01	0.01	0.07	0.08
10	-1.00	2.00	0.01	0.01	0.08	0.09
14	-0.50	1.41	0.03	0.03	0.11	0.12
18	0.00	1.00	0.02	0.02	0.13	0.14
25	0.50	0.71	0.06	0.07	0.19	0.21
35	1.00	0.50	0.08	0.09	0.27	0.30
45	1.50	0.35	0.30	0.33	0.57	0.63
60	2.00	0.25	1.93	2.12	2.50	2.75
80	2.50	0.18	7.47	8.21	9.97	10.96
120	3.00	0.13	44.11	48.49	54.08	59.45
170	3.50	0.09	30.30	33.31	84.38	92.76
200	3.75	0.07	0.10	0.11	84.48	92.87
230	4.00	0.06	3.38	3.72	87.86	96.59

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.89	3.37	3.23	2.90	2.64	2.55	2.14
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.89	0.13	0.45	-1.84	18.8	

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-090 Dune

Analysis Date: 06-04-20

Analyzed By: SF

Easting (ft): 2,941,411	Northing (ft): 947,574	Coordinate System: North Carolina State Plane	Elevation (ft): 16.0 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 105.04	Wash Weight (g): 104.93	Pan Retained (g): 0.00	Sieve Loss (%): 0.02	Fines (%): #200 - 0.14 #230 - 0.11	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.01	0.01	0.02	0.02
25	0.50	0.71	0.00	0.00	0.02	0.02
35	1.00	0.50	0.04	0.04	0.06	0.06
45	1.50	0.35	1.86	1.77	1.92	1.83
60	2.00	0.25	22.12	21.06	24.04	22.89
80	2.50	0.18	61.36	58.42	85.40	81.31
120	3.00	0.13	17.80	16.95	103.20	98.26
170	3.50	0.09	1.59	1.51	104.79	99.77
200	3.75	0.07	0.09	0.09	104.88	99.86
230	4.00	0.06	0.03	0.03	104.91	99.89

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.90	2.58	2.45	2.23	2.02	1.84	1.58
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.23	0.21	0.36	-0.01	4.27	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-090 Dune Toe

Analysis Date: 06-04-20

Analyzed By: SF

Easting (ft): 2,941,426	Northing (ft): 947,578	Coordinate System: North Carolina State Plane	Elevation (ft): 9.4 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 104.73	Wash Weight (g): 104.65	Pan Retained (g): 0.01	Sieve Loss (%): 0.00	Fines (%): #200 - 0.17 #230 - 0.08	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.01	0.01	0.01	0.01
10	-1.00	2.00	0.00	0.00	0.01	0.01
14	-0.50	1.41	0.00	0.00	0.01	0.01
18	0.00	1.00	0.01	0.01	0.02	0.02
25	0.50	0.71	0.00	0.00	0.02	0.02
35	1.00	0.50	0.01	0.01	0.03	0.03
45	1.50	0.35	0.90	0.86	0.93	0.89
60	2.00	0.25	31.11	29.70	32.04	30.59
80	2.50	0.18	57.24	54.65	89.28	85.24
120	3.00	0.13	14.00	13.37	103.28	98.61
170	3.50	0.09	1.21	1.16	104.49	99.77
200	3.75	0.07	0.06	0.06	104.55	99.83
230	4.00	0.06	0.09	0.09	104.64	99.92

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.86	2.49	2.41	2.18	1.91	1.75	1.57
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.17	0.22	0.36	0.22	5.05	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-090 Mid-Berm

Analysis Date: 06-04-20

Analyzed By: SF

Easting (ft): 2,941,449	Northing (ft): 947,586	Coordinate System: North Carolina State Plane	Elevation (ft): 5.6 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-4/2 Dry - 2.5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 102.70	Wash Weight (g): 102.28	Pan Retained (g): 0.02	Sieve Loss (%): 0.02	Fines (%): #200 - 0.47 #230 - 0.42	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.12	0.12	0.12	0.12
7	-1.50	2.83	0.08	0.08	0.20	0.20
10	-1.00	2.00	0.06	0.06	0.26	0.26
14	-0.50	1.41	0.17	0.17	0.43	0.43
18	0.00	1.00	0.03	0.03	0.46	0.46
25	0.50	0.71	0.04	0.04	0.50	0.50
35	1.00	0.50	0.34	0.33	0.84	0.83
45	1.50	0.35	6.97	6.79	7.81	7.62
60	2.00	0.25	48.06	46.80	55.87	54.42
80	2.50	0.18	38.45	37.44	94.32	91.86
120	3.00	0.13	5.13	5.00	99.45	96.86
170	3.50	0.09	2.45	2.39	101.90	99.25
200	3.75	0.07	0.29	0.28	102.19	99.53
230	4.00	0.06	0.05	0.05	102.24	99.58

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.81	2.40	2.27	1.95	1.69	1.59	1.31
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.98	0.25	0.47	-1.16	15.81	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-090 MHW

Analysis Date: 06-05-20

Analyzed By: SF

Easting (ft): 2,941,541	Northing (ft): 947,617	Coordinate System: North Carolina State Plane	Elevation (ft): 1.2 NAVD88
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USCS: SW	Munsell: Wet - 2.5Y-4/2 Dry - 2.5Y-7/2 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 99.63	Wash Weight (g): 98.65	Pan Retained (g): 0.00	Sieve Loss (%): 0.00	Fines (%): #200 - 0.99 #230 - 0.99	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.70	0.70	0.70	0.70
3.5	-2.50	5.66	1.07	1.07	1.77	1.77
4	-2.25	4.76	2.14	2.15	3.91	3.92
5	-2.00	4.00	2.09	2.10	6.00	6.02
7	-1.50	2.83	8.64	8.67	14.64	14.69
10	-1.00	2.00	9.23	9.26	23.87	23.95
14	-0.50	1.41	5.80	5.82	29.67	29.77
18	0.00	1.00	2.39	2.40	32.06	32.17
25	0.50	0.71	1.46	1.47	33.52	33.64
35	1.00	0.50	3.62	3.63	37.14	37.27
45	1.50	0.35	9.94	9.98	47.08	47.25
60	2.00	0.25	18.14	18.21	65.22	65.46
80	2.50	0.18	23.65	23.74	88.87	89.20
120	3.00	0.13	8.98	9.01	97.85	98.21
170	3.50	0.09	0.78	0.78	98.63	98.99
200	3.75	0.07	0.02	0.02	98.65	99.01
230	4.00	0.06	0.00	0.00	98.65	99.01

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.82	2.39	2.20	1.58	-0.91	-1.43	-2.12

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	0.83	0.56	1.7	-0.66	1.97

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-090 MT

Analysis Date: 06-05-20

Analyzed By: SF

Easting (ft): 2,941,570	Northing (ft): 947,626	Coordinate System: North Carolina State Plane	Elevation (ft): -0.4 NAVD88
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USCS: SW	Munsell: Wet - 2.5Y-4/2 Dry - 2.5Y-7/2 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 97.40	Wash Weight (g): 96.59	Pan Retained (g): 0.01	Sieve Loss (%): 0.01	Fines (%): #200 - 0.84 #230 - 0.83	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	2.12	2.18	2.12	2.18
3.5	-2.50	5.66	1.67	1.71	3.79	3.89
4	-2.25	4.76	2.29	2.35	6.08	6.24
5	-2.00	4.00	3.71	3.81	9.79	10.05
7	-1.50	2.83	8.97	9.21	18.76	19.26
10	-1.00	2.00	9.64	9.90	28.40	29.16
14	-0.50	1.41	5.94	6.10	34.34	35.26
18	0.00	1.00	2.10	2.16	36.44	37.42
25	0.50	0.71	1.41	1.45	37.85	38.87
35	1.00	0.50	2.81	2.89	40.66	41.76
45	1.50	0.35	6.29	6.46	46.95	48.22
60	2.00	0.25	14.20	14.58	61.15	62.80
80	2.50	0.18	19.42	19.94	80.57	82.74
120	3.00	0.13	14.20	14.58	94.77	97.32
170	3.50	0.09	1.75	1.80	96.52	99.12
200	3.75	0.07	0.04	0.04	96.56	99.16
230	4.00	0.06	0.01	0.01	96.57	99.17

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.92	2.54	2.31	1.56	-1.21	-1.68	-2.38
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	0.69	0.62	1.89	-0.48	1.72	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-090 MLW

Analysis Date: 06-05-20

Analyzed By: SF

Easting (ft): 2,941,608	Northing (ft): 947,640	Coordinate System: North Carolina State Plane	Elevation (ft): -2.2 NAVD88
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USCS: SW	Munsell: Wet - 2.5Y-4/2 Dry - 2.5Y-7/2 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 96.07	Wash Weight (g): 95.11	Pan Retained (g): 0.01	Sieve Loss (%): 0.00	Fines (%): #200 - 1.01 #230 - 1.01	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	1.34	1.39	1.34	1.39
5/16"	-3.00	8.00	0.72	0.75	2.06	2.14
3.5	-2.50	5.66	0.58	0.60	2.64	2.74
4	-2.25	4.76	0.91	0.95	3.55	3.69
5	-2.00	4.00	1.30	1.35	4.85	5.04
7	-1.50	2.83	3.83	3.99	8.68	9.03
10	-1.00	2.00	5.23	5.44	13.91	14.47
14	-0.50	1.41	3.28	3.41	17.19	17.88
18	0.00	1.00	1.35	1.41	18.54	19.29
25	0.50	0.71	0.86	0.90	19.40	20.19
35	1.00	0.50	2.19	2.28	21.59	22.47
45	1.50	0.35	9.50	9.89	31.09	32.36
60	2.00	0.25	25.14	26.17	56.23	58.53
80	2.50	0.18	30.27	31.51	86.50	90.04
120	3.00	0.13	7.92	8.24	94.42	98.28
170	3.50	0.09	0.66	0.69	95.08	98.97
200	3.75	0.07	0.02	0.02	95.10	98.99
230	4.00	0.06	0.00	0.00	95.10	98.99

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.80	2.40	2.26	1.84	1.13	-0.78	-2.01

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.26	0.42	1.54	-1.5	4.26

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-090 Trough

Analysis Date: 07-07-20

Analyzed By: SF

Easting (ft): 2,942,100	Northing (ft): 947,788	Coordinate System: North Carolina State Plane	Elevation (ft): -13.0 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 91.77	Wash Weight (g): 88.13	Pan Retained (g): 0.17	Sieve Loss (%): 0.01	Fines (%): #200 - 4.70 #230 - 4.14	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.17	0.19	0.17	0.19
14	-0.50	1.41	0.13	0.14	0.30	0.33
18	0.00	1.00	0.08	0.09	0.38	0.42
25	0.50	0.71	0.07	0.08	0.45	0.50
35	1.00	0.50	0.15	0.16	0.60	0.66
45	1.50	0.35	0.53	0.58	1.13	1.24
60	2.00	0.25	2.74	2.99	3.87	4.23
80	2.50	0.18	16.35	17.82	20.22	22.05
120	3.00	0.13	48.01	52.32	68.23	74.37
170	3.50	0.09	18.06	19.68	86.29	94.05
200	3.75	0.07	1.15	1.25	87.44	95.30
230	4.00	0.06	0.51	0.56	87.95	95.86

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.69	3.24	3.02	2.77	2.53	2.33	2.02

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.72	0.15	0.48	-2.27	17.68

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-090 Bar

Analysis Date: 07-07-20

Analyzed By: SF

Easting (ft): 2,942,345	Northing (ft): 947,862	Coordinate System: North Carolina State Plane	Elevation (ft): -11.1 NAVD88
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USCS: SW	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 95.01	Wash Weight (g): 93.14	Pan Retained (g): 0.07	Sieve Loss (%): 0.01	Fines (%): #200 - 2.77 #230 - 2.03	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	1.86	1.96	1.86	1.96
5/16"	-3.00	8.00	0.48	0.51	2.34	2.47
3.5	-2.50	5.66	0.00	0.00	2.34	2.47
4	-2.25	4.76	0.00	0.00	2.34	2.47
5	-2.00	4.00	0.11	0.12	2.45	2.59
7	-1.50	2.83	0.28	0.29	2.73	2.88
10	-1.00	2.00	0.51	0.54	3.24	3.42
14	-0.50	1.41	0.53	0.56	3.77	3.98
18	0.00	1.00	0.37	0.39	4.14	4.37
25	0.50	0.71	0.16	0.17	4.30	4.54
35	1.00	0.50	0.51	0.54	4.81	5.08
45	1.50	0.35	0.88	0.93	5.69	6.01
60	2.00	0.25	2.26	2.38	7.95	8.39
80	2.50	0.18	11.51	12.11	19.46	20.50
120	3.00	0.13	56.65	59.63	76.11	80.13
170	3.50	0.09	15.65	16.47	91.76	96.60
200	3.75	0.07	0.60	0.63	92.36	97.23
230	4.00	0.06	0.70	0.74	93.06	97.97

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.45	3.12	2.96	2.75	2.54	2.31	0.93

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	2.5	0.18	1.19	-4	19.88

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-090 -12

Analysis Date: 07-07-20

Analyzed By: SF

Easting (ft): 2,942,460	Northing (ft): 947,894	Coordinate System: North Carolina State Plane	Elevation (ft): -12.2 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/2 Dry - 5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 95.16	Wash Weight (g): 93.97	Pan Retained (g): 0.07	Sieve Loss (%): 0.01	Fines (%): #200 - 1.81 #230 - 1.36	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.06	0.06	0.06	0.06
10	-1.00	2.00	0.09	0.09	0.15	0.15
14	-0.50	1.41	0.26	0.27	0.41	0.42
18	0.00	1.00	0.15	0.16	0.56	0.58
25	0.50	0.71	0.15	0.16	0.71	0.74
35	1.00	0.50	0.28	0.29	0.99	1.03
45	1.50	0.35	0.67	0.70	1.66	1.73
60	2.00	0.25	1.93	2.03	3.59	3.76
80	2.50	0.18	10.12	10.63	13.71	14.39
120	3.00	0.13	50.57	53.14	64.28	67.53
170	3.50	0.09	27.74	29.15	92.02	96.68
200	3.75	0.07	1.44	1.51	93.46	98.19
230	4.00	0.06	0.43	0.45	93.89	98.64

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.47	3.28	3.13	2.84	2.60	2.52	2.06

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.8	0.14	0.5	-2.96	21.14

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-090 -14

Analysis Date: 07-07-20

Analyzed By: SF

Easting (ft): 2,942,582	Northing (ft): 947,931	Coordinate System: North Carolina State Plane	Elevation (ft): -14.2 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/2 Dry - 2.5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 95.12	Wash Weight (g): 93.40	Pan Retained (g): 0.10	Sieve Loss (%): 0.02	Fines (%): #200 - 3.56 #230 - 1.94	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.56	0.59	0.56	0.59
10	-1.00	2.00	0.79	0.83	1.35	1.42
14	-0.50	1.41	0.84	0.88	2.19	2.30
18	0.00	1.00	0.38	0.40	2.57	2.70
25	0.50	0.71	0.23	0.24	2.80	2.94
35	1.00	0.50	0.76	0.80	3.56	3.74
45	1.50	0.35	1.96	2.06	5.52	5.80
60	2.00	0.25	5.10	5.36	10.62	11.16
80	2.50	0.18	20.82	21.89	31.44	33.05
120	3.00	0.13	46.26	48.63	77.70	81.68
170	3.50	0.09	13.79	14.50	91.49	96.18
200	3.75	0.07	0.25	0.26	91.74	96.44
230	4.00	0.06	1.54	1.62	93.28	98.06

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.46	3.08	2.93	2.67	2.32	2.11	1.31

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	2.52	0.17	0.79	-2.81	13.93

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-090 -16

Analysis Date: 07-07-20

Analyzed By: SF

Easting (ft): 2,942,703	Northing (ft): 947,968	Coordinate System: North Carolina State Plane	Elevation (ft): -16.1 NAVD88
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USCS: SP-SM	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 91.38	Wash Weight (g): 88.26	Pan Retained (g): 0.31	Sieve Loss (%): 0.05	Fines (%): #200 - 5.30 #230 - 3.82	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.09	0.10	0.09	0.10
4	-2.25	4.76	0.00	0.00	0.09	0.10
5	-2.00	4.00	0.04	0.04	0.13	0.14
7	-1.50	2.83	0.25	0.27	0.38	0.41
10	-1.00	2.00	0.08	0.09	0.46	0.50
14	-0.50	1.41	0.05	0.05	0.51	0.55
18	0.00	1.00	0.02	0.02	0.53	0.57
25	0.50	0.71	0.03	0.03	0.56	0.60
35	1.00	0.50	0.05	0.05	0.61	0.65
45	1.50	0.35	0.08	0.09	0.69	0.74
60	2.00	0.25	0.57	0.62	1.26	1.36
80	2.50	0.18	5.59	6.12	6.85	7.48
120	3.00	0.13	41.33	45.23	48.18	52.71
170	3.50	0.09	35.29	38.62	83.47	91.33
200	3.75	0.07	3.08	3.37	86.55	94.70
230	4.00	0.06	1.35	1.48	87.90	96.18

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.80	3.41	3.29	2.97	2.69	2.59	2.30
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.93	0.13	0.52	-4.76	45.53	

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-090 -18

Analysis Date: 07-07-20

Analyzed By: SF

Easting (ft): 2,942,847	Northing (ft): 948,012	Coordinate System: North Carolina State Plane	Elevation (ft): -18.2 NAVD88
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USCS: SP-SM	Munsell: Wet - 2.5Y-4/1 Dry - 2.5Y-6/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 90.37	Wash Weight (g): 85.63	Pan Retained (g): 0.48	Sieve Loss (%): 0.02	Fines (%): #200 - 10.21 #230 - 5.81	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.07	0.08	0.07	0.08
7	-1.50	2.83	0.03	0.03	0.10	0.11
10	-1.00	2.00	0.04	0.04	0.14	0.15
14	-0.50	1.41	0.06	0.07	0.20	0.22
18	0.00	1.00	0.04	0.04	0.24	0.26
25	0.50	0.71	0.04	0.04	0.28	0.30
35	1.00	0.50	0.09	0.10	0.37	0.40
45	1.50	0.35	0.31	0.34	0.68	0.74
60	2.00	0.25	0.91	1.01	1.59	1.75
80	2.50	0.18	8.10	8.96	9.69	10.71
120	3.00	0.13	47.95	53.06	57.64	63.77
170	3.50	0.09	22.80	25.23	80.44	89.00
200	3.75	0.07	0.71	0.79	81.15	89.79
230	4.00	0.06	3.98	4.40	85.13	94.19

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
	3.40	3.22	2.87	2.63	2.55	2.18

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.87	0.14	0.46	-2.21	24.09

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-090 -20

Analysis Date: 07-07-20

Analyzed By: SF

Easting (ft): 2,943,039	Northing (ft): 948,071	Coordinate System: North Carolina State Plane	Elevation (ft): -20.2 NAVD88
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USCS: SM	Munsell: Wet - 5Y-4/1 Dry - 2.5Y-6/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 95.02	Wash Weight (g): 87.46	Pan Retained (g): 1.14	Sieve Loss (%): 0.02	Fines (%): #200 - 14.62 #230 - 9.19	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.07	0.07	0.07	0.07
10	-1.00	2.00	0.02	0.02	0.09	0.09
14	-0.50	1.41	0.05	0.05	0.14	0.14
18	0.00	1.00	0.03	0.03	0.17	0.17
25	0.50	0.71	0.05	0.05	0.22	0.22
35	1.00	0.50	0.07	0.07	0.29	0.29
45	1.50	0.35	0.20	0.21	0.49	0.50
60	2.00	0.25	0.83	0.87	1.32	1.37
80	2.50	0.18	3.63	3.82	4.95	5.19
120	3.00	0.13	20.64	21.72	25.59	26.91
170	3.50	0.09	47.23	49.71	72.82	76.62
200	3.75	0.07	8.32	8.76	81.14	85.38
230	4.00	0.06	5.16	5.43	86.30	90.81

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
	3.71	3.48	3.23	2.96	2.75	2.48
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	3.13	0.11	0.45	-2.51	21.75	

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-105 Dune

Analysis Date: 06-05-20

Analyzed By: SF

Easting (ft): 2,946,131	Northing (ft): 933,361	Coordinate System: North Carolina State Plane	Elevation (ft): 15.8 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5-7/1 Washed - 2.5-8/1	Comments:
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Dry Weight (g): 105.00	Wash Weight (g): 104.90	Pan Retained (g): 0.01	Sieve Loss (%): 0.00	Fines (%): #200 - 0.11 #230 - 0.10	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.02	0.02	0.02	0.02
35	1.00	0.50	0.06	0.06	0.08	0.08
45	1.50	0.35	1.17	1.11	1.25	1.19
60	2.00	0.25	26.61	25.34	27.86	26.53
80	2.50	0.18	62.47	59.50	90.33	86.03
120	3.00	0.13	13.73	13.08	104.06	99.11
170	3.50	0.09	0.79	0.75	104.85	99.86
200	3.75	0.07	0.03	0.03	104.88	99.89
230	4.00	0.06	0.01	0.01	104.89	99.90

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.84	2.48	2.41	2.20	1.97	1.79	1.58
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.18	0.22	0.34	0.04	3.72	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-105 Dune Toe

Analysis Date: 06-05-20

Analyzed By: SF

Easting (ft): 2,946,149	Northing (ft): 933,365	Coordinate System: North Carolina State Plane	Elevation (ft): 8.9 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 105.99	Wash Weight (g): 105.79	Pan Retained (g): 0.00	Sieve Loss (%): 0.01	Fines (%): #200 - 0.21 #230 - 0.19	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.03	0.03	0.03	0.03
14	-0.50	1.41	0.03	0.03	0.06	0.06
18	0.00	1.00	0.04	0.04	0.10	0.10
25	0.50	0.71	0.06	0.06	0.16	0.16
35	1.00	0.50	0.53	0.50	0.69	0.66
45	1.50	0.35	8.26	7.79	8.95	8.45
60	2.00	0.25	47.78	45.08	56.73	53.53
80	2.50	0.18	41.50	39.15	98.23	92.68
120	3.00	0.13	7.07	6.67	105.30	99.35
170	3.50	0.09	0.42	0.40	105.72	99.75
200	3.75	0.07	0.04	0.04	105.76	99.79
230	4.00	0.06	0.02	0.02	105.78	99.81

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.67	2.39	2.27	1.96	1.68	1.58	1.28
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.97	0.26	0.4	-0.24	5.47	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-105 Mid-Berm

Analysis Date: 06-05-20

Analyzed By: SF

Easting (ft): 2,946,193	Northing (ft): 933,379	Coordinate System: North Carolina State Plane	Elevation (ft): 4.8 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 103.97	Wash Weight (g): 103.55	Pan Retained (g): 0.01	Sieve Loss (%): 0.00	Fines (%): #200 - 0.40 #230 - 0.40	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.27	0.26	0.27	0.26
7	-1.50	2.83	0.12	0.12	0.39	0.38
10	-1.00	2.00	0.27	0.26	0.66	0.64
14	-0.50	1.41	0.37	0.36	1.03	1.00
18	0.00	1.00	0.24	0.23	1.27	1.23
25	0.50	0.71	0.52	0.50	1.79	1.73
35	1.00	0.50	2.08	2.00	3.87	3.73
45	1.50	0.35	14.21	13.67	18.08	17.40
60	2.00	0.25	33.78	32.49	51.86	49.89
80	2.50	0.18	40.91	39.35	92.77	89.24
120	3.00	0.13	10.27	9.88	103.04	99.12
170	3.50	0.09	0.48	0.46	103.52	99.58
200	3.75	0.07	0.02	0.02	103.54	99.60
230	4.00	0.06	0.00	0.00	103.54	99.60

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.79	2.43	2.32	2.00	1.62	1.45	1.05
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.92	0.26	0.59	-2.01	12.65	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-105 MHW

Analysis Date: 06-05-20

Analyzed By: SF

Easting (ft): 2,946,245	Northing (ft): 933,398	Coordinate System: North Carolina State Plane	Elevation (ft): 1.2 NAVD88
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USCS: SW	Munsell: Wet - 10YR-4/3 Dry - 10YR-6/3 Washed - 10YR-7/2	Comments:
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Dry Weight (g): 97.88	Wash Weight (g): 97.00	Pan Retained (g): 0.01	Sieve Loss (%): 0.03	Fines (%): #200 - 0.93 #230 - 0.93	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	1.19	1.22	1.19	1.22
4	-2.25	4.76	0.98	1.00	2.17	2.22
5	-2.00	4.00	1.53	1.56	3.70	3.78
7	-1.50	2.83	5.95	6.08	9.65	9.86
10	-1.00	2.00	9.73	9.94	19.38	19.80
14	-0.50	1.41	9.97	10.19	29.35	29.99
18	0.00	1.00	4.19	4.28	33.54	34.27
25	0.50	0.71	1.99	2.03	35.53	36.30
35	1.00	0.50	4.44	4.54	39.97	40.84
45	1.50	0.35	14.32	14.63	54.29	55.47
60	2.00	0.25	20.12	20.56	74.41	76.03
80	2.50	0.18	17.63	18.01	92.04	94.04
120	3.00	0.13	4.63	4.73	96.67	98.77
170	3.50	0.09	0.27	0.28	96.94	99.05
200	3.75	0.07	0.02	0.02	96.96	99.07
230	4.00	0.06	0.00	0.00	96.96	99.07

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.60	2.22	1.97	1.31	-0.74	-1.19	-1.90

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	0.73	0.60	1.52	-0.55	1.93

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-105 MT

Analysis Date: 06-05-20

Analyzed By: SF

Easting (ft): 2,946,272	Northing (ft): 933,408	Coordinate System: North Carolina State Plane	Elevation (ft): -0.4 NAVD88
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USCS: SW	Munsell: Wet - 10YR-4/6 Dry - 10YR-6/6 Washed - 10YR-7/3	Comments:
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Dry Weight (g): 110.91	Wash Weight (g): 110.29	Pan Retained (g): 0.01	Sieve Loss (%): 0.01	Fines (%): #200 - 0.57 #230 - 0.57	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	5.79	5.22	5.79	5.22
3.5	-2.50	5.66	7.45	6.72	13.24	11.94
4	-2.25	4.76	5.43	4.90	18.67	16.84
5	-2.00	4.00	8.87	8.00	27.54	24.84
7	-1.50	2.83	16.14	14.55	43.68	39.39
10	-1.00	2.00	17.80	16.05	61.48	55.44
14	-0.50	1.41	13.23	11.93	74.71	67.37
18	0.00	1.00	3.63	3.27	78.34	70.64
25	0.50	0.71	1.13	1.02	79.47	71.66
35	1.00	0.50	2.10	1.89	81.57	73.55
45	1.50	0.35	5.64	5.09	87.21	78.64
60	2.00	0.25	11.10	10.01	98.31	88.65
80	2.50	0.18	9.17	8.27	107.48	96.92
120	3.00	0.13	2.71	2.44	110.19	99.36
170	3.50	0.09	0.08	0.07	110.27	99.43
200	3.75	0.07	0.00	0.00	110.27	99.43
230	4.00	0.06	0.00	0.00	110.27	99.43

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.38	1.77	1.14	-1.17	-1.99	-2.29	-3.05

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	-0.69	1.61	1.74	0.55	2.04

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-105 MLW

Analysis Date: 06-05-20

Analyzed By: SF

Easting (ft): 2,946,301	Northing (ft): 933,425	Coordinate System: North Carolina State Plane	Elevation (ft): -2.3 NAVD88
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USCS: SW	Munsell: Wet - 10YR-4/6 Dry - 10YR-6/4 Washed - 10YR-7/2	Comments:
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Dry Weight (g): 105.40	Wash Weight (g): 104.72	Pan Retained (g): 0.00	Sieve Loss (%): 0.02	Fines (%): #200 - 0.65 #230 - 0.64	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.85	0.81	0.85	0.81
3.5	-2.50	5.66	3.25	3.08	4.10	3.89
4	-2.25	4.76	3.01	2.86	7.11	6.75
5	-2.00	4.00	3.28	3.11	10.39	9.86
7	-1.50	2.83	11.15	10.58	21.54	20.44
10	-1.00	2.00	14.67	13.92	36.21	34.36
14	-0.50	1.41	12.10	11.48	48.31	45.84
18	0.00	1.00	3.53	3.35	51.84	49.19
25	0.50	0.71	1.20	1.14	53.04	50.33
35	1.00	0.50	1.99	1.89	55.03	52.22
45	1.50	0.35	6.72	6.38	61.75	58.60
60	2.00	0.25	12.77	12.12	74.52	70.72
80	2.50	0.18	21.13	20.05	95.65	90.77
120	3.00	0.13	8.57	8.13	104.22	98.90
170	3.50	0.09	0.47	0.45	104.69	99.35
200	3.75	0.07	0.00	0.00	104.69	99.35
230	4.00	0.06	0.01	0.01	104.70	99.36

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.76	2.33	2.11	0.36	-1.34	-1.71	-2.40
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	0.3	0.81	1.82	-0.1	1.47	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-105 Trough

Analysis Date: 07-07-20

Analyzed By: SF

Easting (ft): 2,947,079	Northing (ft): 933,708	Coordinate System: North Carolina State Plane	Elevation (ft): -13.9 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 96.35	Wash Weight (g): 94.45	Pan Retained (g): 0.07	Sieve Loss (%): 0.01	Fines (%): #200 - 2.90 #230 - 2.07	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.09	0.09	0.09	0.09
4	-2.25	4.76	0.00	0.00	0.09	0.09
5	-2.00	4.00	0.00	0.00	0.09	0.09
7	-1.50	2.83	0.01	0.01	0.10	0.10
10	-1.00	2.00	0.10	0.10	0.20	0.20
14	-0.50	1.41	0.12	0.12	0.32	0.32
18	0.00	1.00	0.06	0.06	0.38	0.38
25	0.50	0.71	0.04	0.04	0.42	0.42
35	1.00	0.50	0.09	0.09	0.51	0.51
45	1.50	0.35	0.51	0.53	1.02	1.04
60	2.00	0.25	3.35	3.48	4.37	4.52
80	2.50	0.18	23.88	24.78	28.25	29.30
120	3.00	0.13	52.28	54.26	80.53	83.56
170	3.50	0.09	12.60	13.08	93.13	96.64
200	3.75	0.07	0.44	0.46	93.57	97.10
230	4.00	0.06	0.80	0.83	94.37	97.93

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.44	3.02	2.92	2.69	2.41	2.23	2.01
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.64	0.16	0.47	-2.87	28.65	

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-105 Bar

Analysis Date: 07-07-20

Analyzed By: SF

Easting (ft): 2,946,851	Northing (ft): 933,618	Coordinate System: North Carolina State Plane	Elevation (ft): -10.7 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/2 Dry - 5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 91.98	Wash Weight (g): 90.78	Pan Retained (g): 0.05	Sieve Loss (%): 0.01	Fines (%): #200 - 1.61 #230 - 1.37	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.03	0.03	0.03	0.03
10	-1.00	2.00	0.15	0.16	0.18	0.19
14	-0.50	1.41	0.24	0.26	0.42	0.45
18	0.00	1.00	0.18	0.20	0.60	0.65
25	0.50	0.71	0.14	0.15	0.74	0.80
35	1.00	0.50	0.28	0.30	1.02	1.10
45	1.50	0.35	0.80	0.87	1.82	1.97
60	2.00	0.25	2.89	3.14	4.71	5.11
80	2.50	0.18	14.28	15.53	18.99	20.64
120	3.00	0.13	42.73	46.46	61.72	67.10
170	3.50	0.09	27.71	30.13	89.43	97.23
200	3.75	0.07	1.07	1.16	90.50	98.39
230	4.00	0.06	0.22	0.24	90.72	98.63

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.46	3.28	3.13	2.82	2.55	2.35	1.98
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.76	0.15	0.53	-2.57	16.71	

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-105 -12

Analysis Date: 07-09-20

Analyzed By: SF

Easting (ft): 2,947,171	Northing (ft): 933,735	Coordinate System: North Carolina State Plane	Elevation (ft): -11.9 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/2 Dry - 5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 95.09	Wash Weight (g): 94.07	Pan Retained (g): 0.03	Sieve Loss (%): 0.01	Fines (%): #200 - 1.51 #230 - 1.11	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.09	0.09	0.09	0.09
10	-1.00	2.00	0.39	0.41	0.48	0.50
14	-0.50	1.41	0.49	0.52	0.97	1.02
18	0.00	1.00	0.33	0.35	1.30	1.37
25	0.50	0.71	0.24	0.25	1.54	1.62
35	1.00	0.50	0.54	0.57	2.08	2.19
45	1.50	0.35	2.03	2.13	4.11	4.32
60	2.00	0.25	8.32	8.75	12.43	13.07
80	2.50	0.18	30.73	32.32	43.16	45.39
120	3.00	0.13	40.96	43.07	84.12	88.46
170	3.50	0.09	8.84	9.30	92.96	97.76
200	3.75	0.07	0.69	0.73	93.65	98.49
230	4.00	0.06	0.38	0.40	94.03	98.89

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.35	2.95	2.84	2.55	2.18	2.05	1.54
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.46	0.18	0.62	-2.37	13.83	

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-105 -14

Analysis Date: 07-09-20

Analyzed By: SF

Easting (ft): 2,947,289	Northing (ft): 933,778	Coordinate System: North Carolina State Plane	Elevation (ft): -14.0 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 2.5Y-7/1 Washed - 2.5Y-7/1	Comments:
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Dry Weight (g): 92.54	Wash Weight (g): 90.20	Pan Retained (g): 0.13	Sieve Loss (%): 0.01	Fines (%): #200 - 3.40 #230 - 2.67	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.07	0.08	0.07	0.08
5	-2.00	4.00	0.20	0.22	0.27	0.30
7	-1.50	2.83	0.45	0.49	0.72	0.79
10	-1.00	2.00	0.37	0.40	1.09	1.19
14	-0.50	1.41	0.44	0.48	1.53	1.67
18	0.00	1.00	0.18	0.19	1.71	1.86
25	0.50	0.71	0.15	0.16	1.86	2.02
35	1.00	0.50	0.18	0.19	2.04	2.21
45	1.50	0.35	0.51	0.55	2.55	2.76
60	2.00	0.25	2.06	2.23	4.61	4.99
80	2.50	0.18	11.26	12.17	15.87	17.16
120	3.00	0.13	44.11	47.67	59.98	64.83
170	3.50	0.09	27.75	29.99	87.73	94.82
200	3.75	0.07	1.65	1.78	89.38	96.60
230	4.00	0.06	0.68	0.73	90.06	97.33

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.53	3.32	3.17	2.84	2.58	2.45	2.00

Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
	2.75	0.15	0.71	-3.86	23.57

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-105 -16

Analysis Date: 07-09-20

Analyzed By: SF

Easting (ft): 2,947,399	Northing (ft): 933,818	Coordinate System: North Carolina State Plane	Elevation (ft): -16.1 NAVD88
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USCS: SP-SM	Munsell: Wet - 2.5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 82.63	Wash Weight (g): 80.29	Pan Retained (g): 0.11	Sieve Loss (%): 0.01	Fines (%): #200 - 5.15 #230 - 2.98	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.04	0.05	0.04	0.05
7	-1.50	2.83	0.00	0.00	0.04	0.05
10	-1.00	2.00	0.04	0.05	0.08	0.10
14	-0.50	1.41	0.01	0.01	0.09	0.11
18	0.00	1.00	0.01	0.01	0.10	0.12
25	0.50	0.71	0.01	0.01	0.11	0.13
35	1.00	0.50	0.01	0.01	0.12	0.14
45	1.50	0.35	0.03	0.04	0.15	0.18
60	2.00	0.25	0.42	0.51	0.57	0.69
80	2.50	0.18	7.44	9.00	8.01	9.69
120	3.00	0.13	51.35	62.14	59.36	71.83
170	3.50	0.09	18.98	22.97	78.34	94.80
200	3.75	0.07	0.04	0.05	78.38	94.85
230	4.00	0.06	1.79	2.17	80.17	97.02

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.77	3.26	3.07	2.82	2.62	2.55	2.24

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.84	0.14	0.37	-1.9	30.02

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-105 -18

Analysis Date: 07-09-20

Analyzed By: SF

Easting (ft): 2,947,532	Northing (ft): 933,866	Coordinate System: North Carolina State Plane	Elevation (ft): -17.8 NAVD88
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USCS: SP-SM	Munsell: Wet - 5Y-4/1 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 90.93	Wash Weight (g): 85.44	Pan Retained (g): 0.38	Sieve Loss (%): 0.04	Fines (%): #200 - 8.39 #230 - 6.50	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.08	0.09	0.08	0.09
10	-1.00	2.00	0.08	0.09	0.16	0.18
14	-0.50	1.41	0.11	0.12	0.27	0.30
18	0.00	1.00	0.05	0.05	0.32	0.35
25	0.50	0.71	0.04	0.04	0.36	0.39
35	1.00	0.50	0.07	0.08	0.43	0.47
45	1.50	0.35	0.19	0.21	0.62	0.68
60	2.00	0.25	0.69	0.76	1.31	1.44
80	2.50	0.18	5.65	6.21	6.96	7.65
120	3.00	0.13	41.38	45.51	48.34	53.16
170	3.50	0.09	31.80	34.97	80.14	88.13
200	3.75	0.07	3.16	3.48	83.30	91.61
230	4.00	0.06	1.72	1.89	85.02	93.50

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
	3.44	3.31	2.97	2.69	2.59	2.29

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.93	0.13	0.45	-2.91	27.19

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-105 -20

Analysis Date: 07-09-20

Analyzed By: SF

Easting (ft): 2,947,700	Northing (ft): 933,927	Coordinate System: North Carolina State Plane	Elevation (ft): -19.8 NAVD88
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USCS: SP-SM	Munsell: Wet - 2.5Y-4/1 Dry - 2.5Y-6/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 91.02	Wash Weight (g): 85.16	Pan Retained (g): 0.37	Sieve Loss (%): 0.02	Fines (%): #200 - 11.23 #230 - 6.88	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.03	0.03	0.03	0.03
7	-1.50	2.83	0.04	0.04	0.07	0.07
10	-1.00	2.00	0.01	0.01	0.08	0.08
14	-0.50	1.41	0.03	0.03	0.11	0.11
18	0.00	1.00	0.01	0.01	0.12	0.12
25	0.50	0.71	0.02	0.02	0.14	0.14
35	1.00	0.50	0.02	0.02	0.16	0.16
45	1.50	0.35	0.04	0.04	0.20	0.20
60	2.00	0.25	0.35	0.38	0.55	0.58
80	2.50	0.18	6.26	6.88	6.81	7.46
120	3.00	0.13	50.53	55.52	57.34	62.98
170	3.50	0.09	23.29	25.59	80.63	88.57
200	3.75	0.07	0.18	0.20	80.81	88.77
230	4.00	0.06	3.96	4.35	84.77	93.12

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
	3.41	3.23	2.88	2.66	2.58	2.32
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.89	0.13	0.4	-1.56	24.93	

CURRITUCK COUNTY BEACH 2020.GPJ 7/17/20

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: Currituck Beach Monitoring 2020

Sample Name: C-120 Dune

Analysis Date: 06-05-20

Analyzed By: SF

Easting (ft): 2,951,304	Northing (ft): 919,276	Coordinate System: North Carolina State Plane	Elevation (ft): 15.3 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/3 Dry - 2.5Y-7/3 Washed - 2.5Y-7/3	Comments:
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Dry Weight (g): 105.77	Wash Weight (g): 105.50	Pan Retained (g): 0.02	Sieve Loss (%): 0.03	Fines (%): #200 - 0.31 #230 - 0.29	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.08	0.08	0.08	0.08
14	-0.50	1.41	0.22	0.21	0.30	0.29
18	0.00	1.00	0.38	0.36	0.68	0.65
25	0.50	0.71	0.83	0.78	1.51	1.43
35	1.00	0.50	1.89	1.79	3.40	3.22
45	1.50	0.35	12.17	11.51	15.57	14.73
60	2.00	0.25	39.07	36.94	54.64	51.67
80	2.50	0.18	39.91	37.73	94.55	89.40
120	3.00	0.13	10.44	9.87	104.99	99.27
170	3.50	0.09	0.42	0.40	105.41	99.67
200	3.75	0.07	0.02	0.02	105.43	99.69
230	4.00	0.06	0.02	0.02	105.45	99.71

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.78	2.43	2.31	1.98	1.64	1.52	1.08

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.94	0.26	0.52	-1.01	6.53

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-120 Dune Toe

Analysis Date: 06-05-20

Analyzed By: SF

Easting (ft): 2,951,319	Northing (ft): 919,283	Coordinate System: North Carolina State Plane	Elevation (ft): 7.6 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 107.68	Wash Weight (g): 107.42	Pan Retained (g): 0.01	Sieve Loss (%): 0.03	Fines (%): #200 - 0.27 #230 - 0.26	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.45	0.42	0.45	0.42
14	-0.50	1.41	1.33	1.24	1.78	1.66
18	0.00	1.00	1.08	1.00	2.86	2.66
25	0.50	0.71	0.47	0.44	3.33	3.10
35	1.00	0.50	0.99	0.92	4.32	4.02
45	1.50	0.35	14.89	13.83	19.21	17.85
60	2.00	0.25	52.57	48.82	71.78	66.67
80	2.50	0.18	29.76	27.64	101.54	94.31
120	3.00	0.13	5.33	4.95	106.87	99.26
170	3.50	0.09	0.48	0.45	107.35	99.71
200	3.75	0.07	0.02	0.02	107.37	99.73
230	4.00	0.06	0.01	0.01	107.38	99.74

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.57	2.31	2.15	1.83	1.57	1.43	1.04

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	1.8	0.29	0.58	-1.91	10.42

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-120 Mid-Berm

Analysis Date: 06-08-20

Analyzed By: SF

Easting (ft): 2,951,360	Northing (ft): 919,297	Coordinate System: North Carolina State Plane	Elevation (ft): 3.6 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 103.99	Wash Weight (g): 103.58	Pan Retained (g): 0.00	Sieve Loss (%): 0.05	Fines (%): #200 - 0.45 #230 - 0.44	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.02	0.02	0.02	0.02
25	0.50	0.71	0.14	0.13	0.16	0.15
35	1.00	0.50	1.19	1.14	1.35	1.29
45	1.50	0.35	13.54	13.02	14.89	14.31
60	2.00	0.25	41.75	40.15	56.64	54.46
80	2.50	0.18	39.72	38.20	96.36	92.66
120	3.00	0.13	6.88	6.62	103.24	99.28
170	3.50	0.09	0.28	0.27	103.52	99.55
200	3.75	0.07	0.00	0.00	103.52	99.55
230	4.00	0.06	0.01	0.01	103.53	99.56

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.68	2.39	2.27	1.94	1.63	1.52	1.14
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.93	0.26	0.43	-0.21	3.26	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-120 MHW

Analysis Date: 06-08-20

Analyzed By: SF

Easting (ft): 2,951,399	Northing (ft): 919,311	Coordinate System: North Carolina State Plane	Elevation (ft): 1.2 NAVD88
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USCS: SW	Munsell: Wet - 2.5Y-4/1 Dry - 2.5Y-7/3 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 96.21	Wash Weight (g): 95.45	Pan Retained (g): 0.00	Sieve Loss (%): 0.02	Fines (%): #200 - 0.82 #230 - 0.81	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.34	0.35	0.34	0.35
4	-2.25	4.76	0.32	0.33	0.66	0.68
5	-2.00	4.00	0.21	0.22	0.87	0.90
7	-1.50	2.83	0.46	0.48	1.33	1.38
10	-1.00	2.00	0.52	0.54	1.85	1.92
14	-0.50	1.41	1.84	1.91	3.69	3.83
18	0.00	1.00	3.15	3.27	6.84	7.10
25	0.50	0.71	4.58	4.76	11.42	11.86
35	1.00	0.50	6.55	6.81	17.97	18.67
45	1.50	0.35	15.67	16.29	33.64	34.96
60	2.00	0.25	25.80	26.82	59.44	61.78
80	2.50	0.18	24.52	25.49	83.96	87.27
120	3.00	0.13	10.70	11.12	94.66	98.39
170	3.50	0.09	0.74	0.77	95.40	99.16
200	3.75	0.07	0.02	0.02	95.42	99.18
230	4.00	0.06	0.01	0.01	95.43	99.19

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.85	2.44	2.26	1.78	1.19	0.80	-0.32
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.59	0.33	0.95	-1.44	5.96	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-120 MT

Analysis Date: 06-08-20

Analyzed By: SF

Easting (ft): 2,951,466	Northing (ft): 919,335	Coordinate System: North Carolina State Plane	Elevation (ft): -0.4 NAVD88
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USCS: SW	Munsell: Wet - 2.5Y-4/3 Dry - 10YR-6/3 Washed - 2.5Y-7/3	Comments:
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Dry Weight (g): 100.65	Wash Weight (g): 99.82	Pan Retained (g): 0.00	Sieve Loss (%): 0.00	Fines (%): #200 - 0.84 #230 - 0.83	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	1.60	1.59	1.60	1.59
5	-2.00	4.00	1.07	1.06	2.67	2.65
7	-1.50	2.83	5.80	5.76	8.47	8.41
10	-1.00	2.00	7.29	7.24	15.76	15.65
14	-0.50	1.41	10.85	10.78	26.61	26.43
18	0.00	1.00	7.65	7.60	34.26	34.03
25	0.50	0.71	4.83	4.80	39.09	38.83
35	1.00	0.50	5.07	5.04	44.16	43.87
45	1.50	0.35	13.95	13.86	58.11	57.73
60	2.00	0.25	23.02	22.87	81.13	80.60
80	2.50	0.18	14.62	14.53	95.75	95.13
120	3.00	0.13	3.90	3.87	99.65	99.00
170	3.50	0.09	0.15	0.15	99.80	99.15
200	3.75	0.07	0.01	0.01	99.81	99.16
230	4.00	0.06	0.01	0.01	99.82	99.17

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.50	2.12	1.88	1.22	-0.57	-0.98	-1.80
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	0.72	0.61	1.41	-0.5	1.96	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-120 MLW

Analysis Date: 06-08-20

Analyzed By: SF

Easting (ft): 2,951,513	Northing (ft): 919,353	Coordinate System: North Carolina State Plane	Elevation (ft): -2.2 NAVD88
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USCS: SW	Munsell: Wet - 10YR-4/6 Dry - 10YR-6/6 Washed - 10YR-6/4	Comments:
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Dry Weight (g): 102.49	Wash Weight (g): 101.57	Pan Retained (g): 0.00	Sieve Loss (%): 0.00	Fines (%): #200 - 0.90 #230 - 0.90	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	2.23	2.18	2.23	2.18
3.5	-2.50	5.66	0.35	0.34	2.58	2.52
4	-2.25	4.76	0.81	0.79	3.39	3.31
5	-2.00	4.00	1.94	1.89	5.33	5.20
7	-1.50	2.83	8.65	8.44	13.98	13.64
10	-1.00	2.00	19.35	18.88	33.33	32.52
14	-0.50	1.41	34.93	34.08	68.26	66.60
18	0.00	1.00	19.37	18.90	87.63	85.50
25	0.50	0.71	3.62	3.53	91.25	89.03
35	1.00	0.50	1.71	1.67	92.96	90.70
45	1.50	0.35	2.27	2.21	95.23	92.91
60	2.00	0.25	2.98	2.91	98.21	95.82
80	2.50	0.18	2.72	2.65	100.93	98.47
120	3.00	0.13	0.60	0.59	101.53	99.06
170	3.50	0.09	0.03	0.03	101.56	99.09
200	3.75	0.07	0.01	0.01	101.57	99.10
230	4.00	0.06	0.00	0.00	101.57	99.10

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
1.86	-0.04	-0.28	-0.74	-1.20	-1.44	-2.03

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	-0.65	1.57	1.02	0.84	5.06

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-120 Trough

Analysis Date: 06-08-20

Analyzed By: SF

Easting (ft): 2,951,928	Northing (ft): 919,503	Coordinate System: North Carolina State Plane	Elevation (ft): -12.5 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/2 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 87.23	Wash Weight (g): 85.22	Pan Retained (g): 0.04	Sieve Loss (%): 0.01	Fines (%): #200 - 2.46 #230 - 2.35	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.04	0.05	0.04	0.05
14	-0.50	1.41	0.08	0.09	0.12	0.14
18	0.00	1.00	0.08	0.09	0.20	0.23
25	0.50	0.71	0.07	0.08	0.27	0.31
35	1.00	0.50	0.13	0.15	0.40	0.46
45	1.50	0.35	0.45	0.52	0.85	0.98
60	2.00	0.25	2.85	3.27	3.70	4.25
80	2.50	0.18	19.05	21.84	22.75	26.09
120	3.00	0.13	46.29	53.07	69.04	79.16
170	3.50	0.09	15.58	17.86	84.62	97.02
200	3.75	0.07	0.45	0.52	85.07	97.54
230	4.00	0.06	0.10	0.11	85.17	97.65

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.44	3.14	2.96	2.73	2.48	2.27	2.02
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.68	0.16	0.43	-1.65	12.72	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-120 Bar

Analysis Date: 06-08-20

Analyzed By: SF

Easting (ft): 2,952,183	Northing (ft): 919,561	Coordinate System: North Carolina State Plane	Elevation (ft): -10.5 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 93.54	Wash Weight (g): 92.47	Pan Retained (g): 0.01	Sieve Loss (%): 0.00	Fines (%): #200 - 1.19 #230 - 1.15	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.02	0.02	0.02	0.02
14	-0.50	1.41	0.00	0.00	0.02	0.02
18	0.00	1.00	0.08	0.09	0.10	0.11
25	0.50	0.71	0.09	0.10	0.19	0.21
35	1.00	0.50	0.48	0.51	0.67	0.72
45	1.50	0.35	3.19	3.41	3.86	4.13
60	2.00	0.25	20.87	22.31	24.73	26.44
80	2.50	0.18	42.55	45.49	67.28	71.93
120	3.00	0.13	22.75	24.32	90.03	96.25
170	3.50	0.09	2.29	2.45	92.32	98.70
200	3.75	0.07	0.10	0.11	92.42	98.81
230	4.00	0.06	0.04	0.04	92.46	98.85

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.97	2.75	2.56	2.26	1.97	1.77	1.52
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.24	0.21	0.45	-0.48	4.85	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-120 -12

Analysis Date: 06-08-20

Analyzed By: SF

Easting (ft): 2,952,299	Northing (ft): 919,638	Coordinate System: North Carolina State Plane	Elevation (ft): -12.3 NAVD88
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USCS: SP	Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/2 Washed - 2.5Y-7/2	Comments:
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Dry Weight (g): 93.16	Wash Weight (g): 92.19	Pan Retained (g): 0.02	Sieve Loss (%): 0.03	Fines (%): #200 - 1.14 #230 - 1.09	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.10	0.11	0.10	0.11
14	-0.50	1.41	0.15	0.16	0.25	0.27
18	0.00	1.00	0.13	0.14	0.38	0.41
25	0.50	0.71	0.21	0.23	0.59	0.64
35	1.00	0.50	0.63	0.68	1.22	1.32
45	1.50	0.35	3.94	4.23	5.16	5.55
60	2.00	0.25	15.51	16.65	20.67	22.20
80	2.50	0.18	45.10	48.41	65.77	70.61
120	3.00	0.13	22.60	24.26	88.37	94.87
170	3.50	0.09	3.56	3.82	91.93	98.69
200	3.75	0.07	0.16	0.17	92.09	98.86
230	4.00	0.06	0.05	0.05	92.14	98.91

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.02	2.78	2.59	2.29	2.03	1.81	1.43
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.26	0.21	0.5	-1.19	8.66	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-120 -14

Analysis Date: 06-08-20

Analyzed By: SF

Easting (ft): 2,952,417	Northing (ft): 919,658	Coordinate System: North Carolina State Plane	Elevation (ft): -14.2 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/2 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 90.06	Wash Weight (g): 88.70	Pan Retained (g): 0.02	Sieve Loss (%): 0.01	Fines (%): #200 - 1.63 #230 - 1.55	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.18	0.20	0.18	0.20
10	-1.00	2.00	0.28	0.31	0.46	0.51
14	-0.50	1.41	0.36	0.40	0.82	0.91
18	0.00	1.00	0.24	0.27	1.06	1.18
25	0.50	0.71	0.13	0.14	1.19	1.32
35	1.00	0.50	0.08	0.09	1.27	1.41
45	1.50	0.35	0.20	0.22	1.47	1.63
60	2.00	0.25	2.92	3.24	4.39	4.87
80	2.50	0.18	32.27	35.83	36.66	40.70
120	3.00	0.13	44.50	49.41	81.16	90.11
170	3.50	0.09	7.15	7.94	88.31	98.05
200	3.75	0.07	0.29	0.32	88.60	98.37
230	4.00	0.06	0.07	0.08	88.67	98.45

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.31	2.94	2.85	2.59	2.28	2.16	2.00
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.53	0.17	0.53	-3.6	25.93	

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-120 -16

Analysis Date: 06-08-20

Analyzed By: SF

Easting (ft): 2,952,502	Northing (ft): 919,712	Coordinate System: North Carolina State Plane	Elevation (ft): -16.3 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/2 Dry - 5Y-7/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 88.15	Wash Weight (g): 86.68	Pan Retained (g): 0.04	Sieve Loss (%): 0.02	Fines (%): #200 - 2.59 #230 - 1.74	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.16	0.18	0.16	0.18
10	-1.00	2.00	0.05	0.06	0.21	0.24
14	-0.50	1.41	0.03	0.03	0.24	0.27
18	0.00	1.00	0.02	0.02	0.26	0.29
25	0.50	0.71	0.02	0.02	0.28	0.31
35	1.00	0.50	0.03	0.03	0.31	0.34
45	1.50	0.35	0.06	0.07	0.37	0.41
60	2.00	0.25	0.51	0.58	0.88	0.99
80	2.50	0.18	10.25	11.63	11.13	12.62
120	3.00	0.13	60.39	68.51	71.52	81.13
170	3.50	0.09	14.31	16.23	85.83	97.36
200	3.75	0.07	0.04	0.05	85.87	97.41
230	4.00	0.06	0.75	0.85	86.62	98.26

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.43	3.09	2.96	2.77	2.59	2.52	2.17

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.76	0.15	0.38	-4.12	49.44

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-120 -18

Analysis Date: 06-08-20

Analyzed By: SF

Easting (ft): 2,952,630	Northing (ft): 919,755	Coordinate System: North Carolina State Plane	Elevation (ft): -18.2 NAVD88
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USCS: SP	Munsell: Wet - 5Y-4/1 Dry - 5Y-6/1 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 86.76	Wash Weight (g): 84.84	Pan Retained (g): 0.16	Sieve Loss (%): 0.01	Fines (%): #200 - 3.27 #230 - 2.39	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.01	0.01	0.01	0.01
10	-1.00	2.00	0.19	0.22	0.20	0.23
14	-0.50	1.41	0.15	0.17	0.35	0.40
18	0.00	1.00	0.08	0.09	0.43	0.49
25	0.50	0.71	0.04	0.05	0.47	0.54
35	1.00	0.50	0.05	0.06	0.52	0.60
45	1.50	0.35	0.10	0.12	0.62	0.72
60	2.00	0.25	0.47	0.54	1.09	1.26
80	2.50	0.18	5.67	6.54	6.76	7.80
120	3.00	0.13	39.49	45.52	46.25	53.32
170	3.50	0.09	34.84	40.16	81.09	93.48
200	3.75	0.07	2.82	3.25	83.91	96.73
230	4.00	0.06	0.76	0.88	84.67	97.61

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.62	3.38	3.27	2.96	2.69	2.59	2.29

Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.93	0.13	0.45	-3.43	29.99

CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

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: Currituck Beach Monitoring 2020

Sample Name: C-120 -20

Analysis Date: 06-08-20

Analyzed By: SF

Easting (ft): 2,952,787	Northing (ft): 919,799	Coordinate System: North Carolina State Plane	Elevation (ft): -20.3 NAVD88
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USCS: SW	Munsell: Wet - 5Y-4/1 Dry - 5Y-6/2 Washed - 5Y-7/1	Comments:
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Dry Weight (g): 91.53	Wash Weight (g): 89.86	Pan Retained (g): 0.10	Sieve Loss (%): 0.03	Fines (%): #200 - 4.37 #230 - 1.98	Organics (%):	Carbonates (%):	Shell Hash (%):
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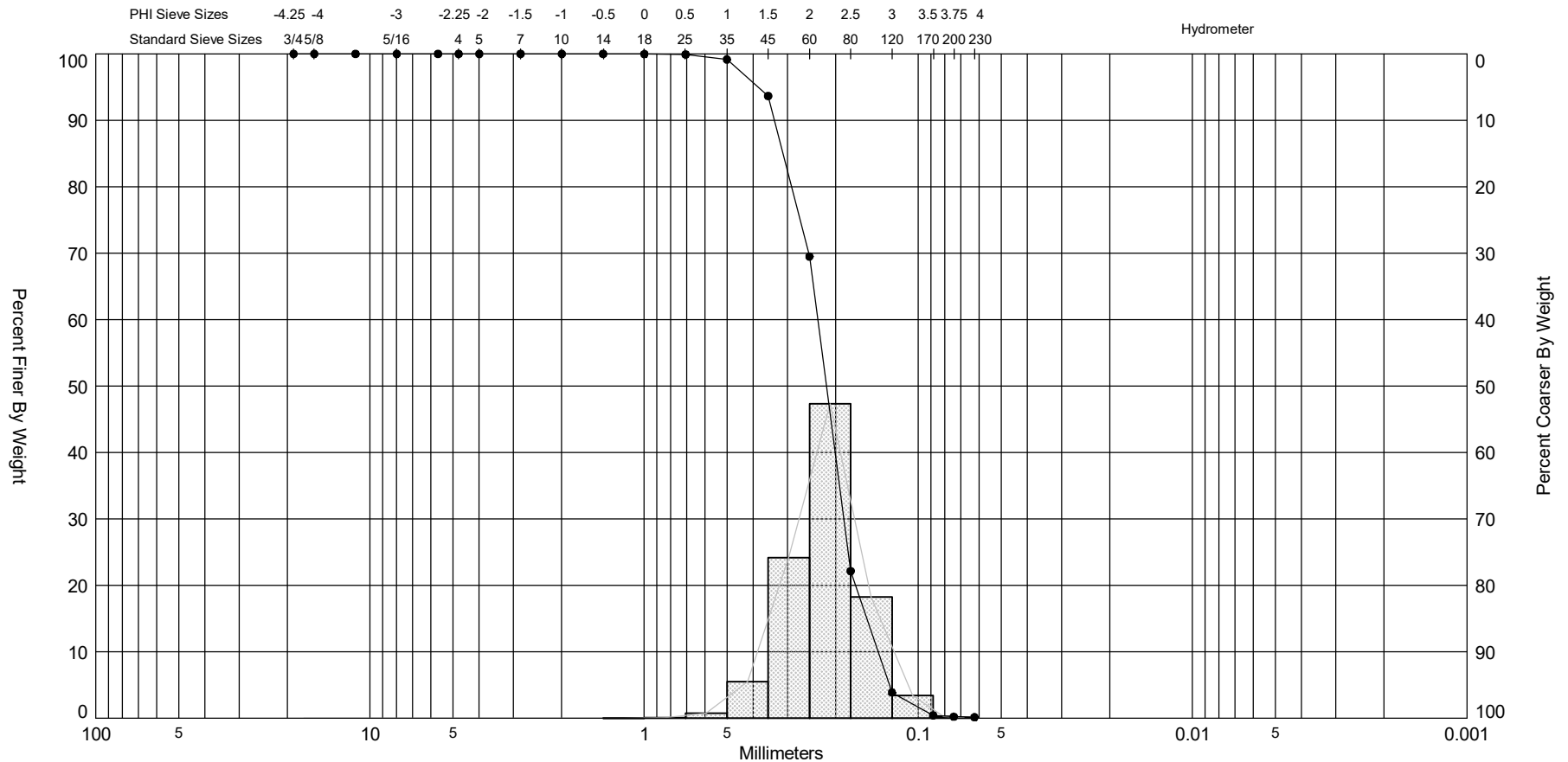
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00
3.5	-2.50	5.66	1.44	1.57	1.44	1.57
4	-2.25	4.76	0.07	0.08	1.51	1.65
5	-2.00	4.00	0.15	0.16	1.66	1.81
7	-1.50	2.83	0.60	0.66	2.26	2.47
10	-1.00	2.00	0.89	0.97	3.15	3.44
14	-0.50	1.41	0.48	0.52	3.63	3.96
18	0.00	1.00	0.28	0.31	3.91	4.27
25	0.50	0.71	0.26	0.28	4.17	4.55
35	1.00	0.50	0.26	0.28	4.43	4.83
45	1.50	0.35	0.52	0.57	4.95	5.40
60	2.00	0.25	4.22	4.61	9.17	10.01
80	2.50	0.18	24.33	26.58	33.50	36.59
120	3.00	0.13	36.60	39.99	70.10	76.58
170	3.50	0.09	17.00	18.57	87.10	95.15
200	3.75	0.07	0.44	0.48	87.54	95.63
230	4.00	0.06	2.19	2.39	89.73	98.02

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.50	3.20	2.98	2.67	2.28	2.11	1.15
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.47	0.18	1.05	-3.23	15.14	


CURRITUCK COUNTY BEACH 2020.GPJ 6/15/20

APPENDIX 3
INDIVIDUAL BEACH GRAIN SIZE DISTRIBUTION CURVES/HISTOGRAMS
(Digital Copy Only)

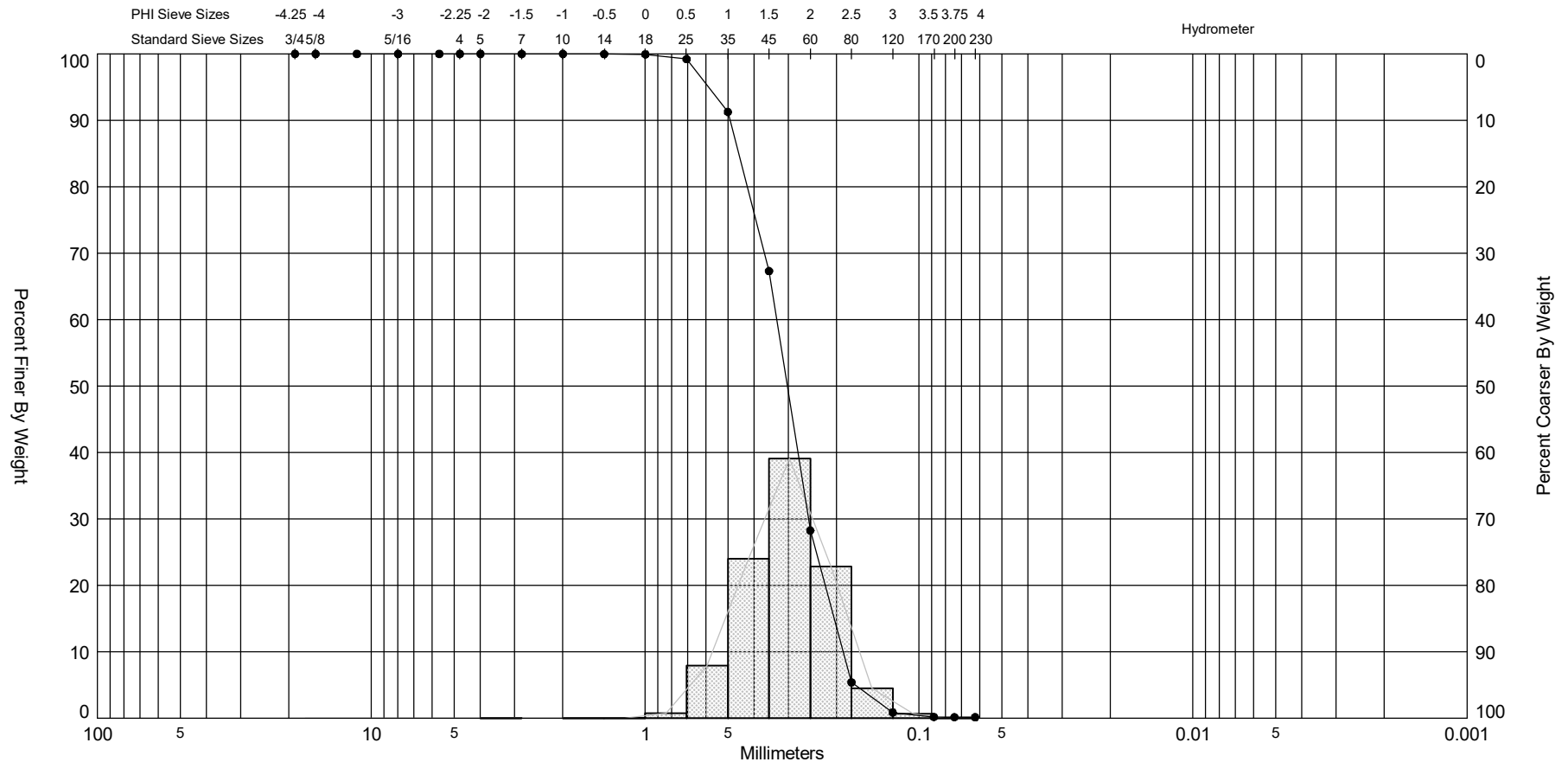
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-002 Dune	—●—	14.8	SP	#200 - 0.21 #230 - 0.14			2.21	2.19	-0.14	3.7	0.47	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-27-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,920,181
												Northing (Y, ft):	1,032,729
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

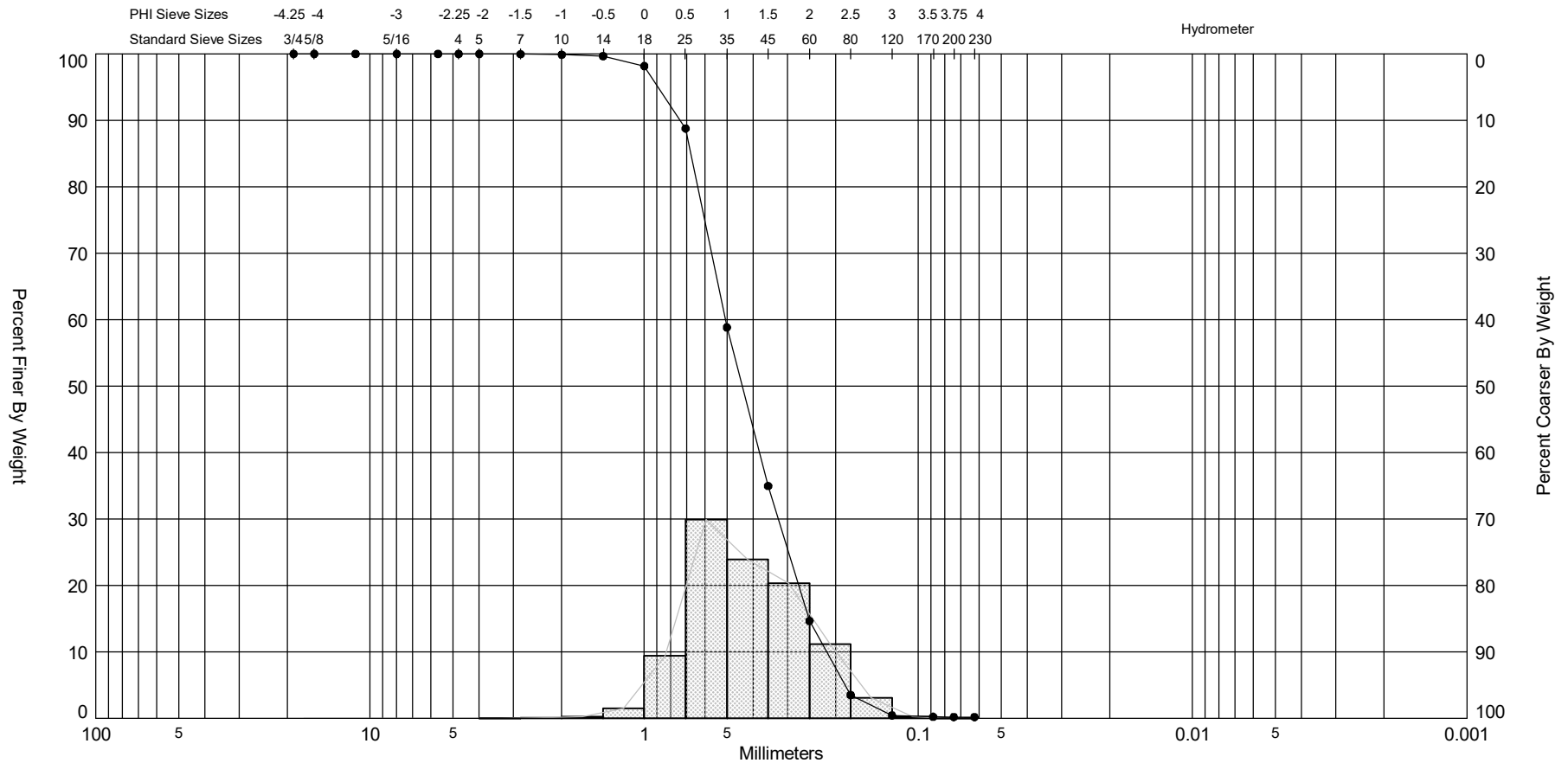
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-002 Dune Toe	—●—	8.2	SP	#200 - 0.15 #230 - 0.14			1.72	1.71	-0.06	3.29	0.53	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-27-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,920,197
												Northing (Y, ft):	1,032,729
												Horizontal Datum:	NAD 1983
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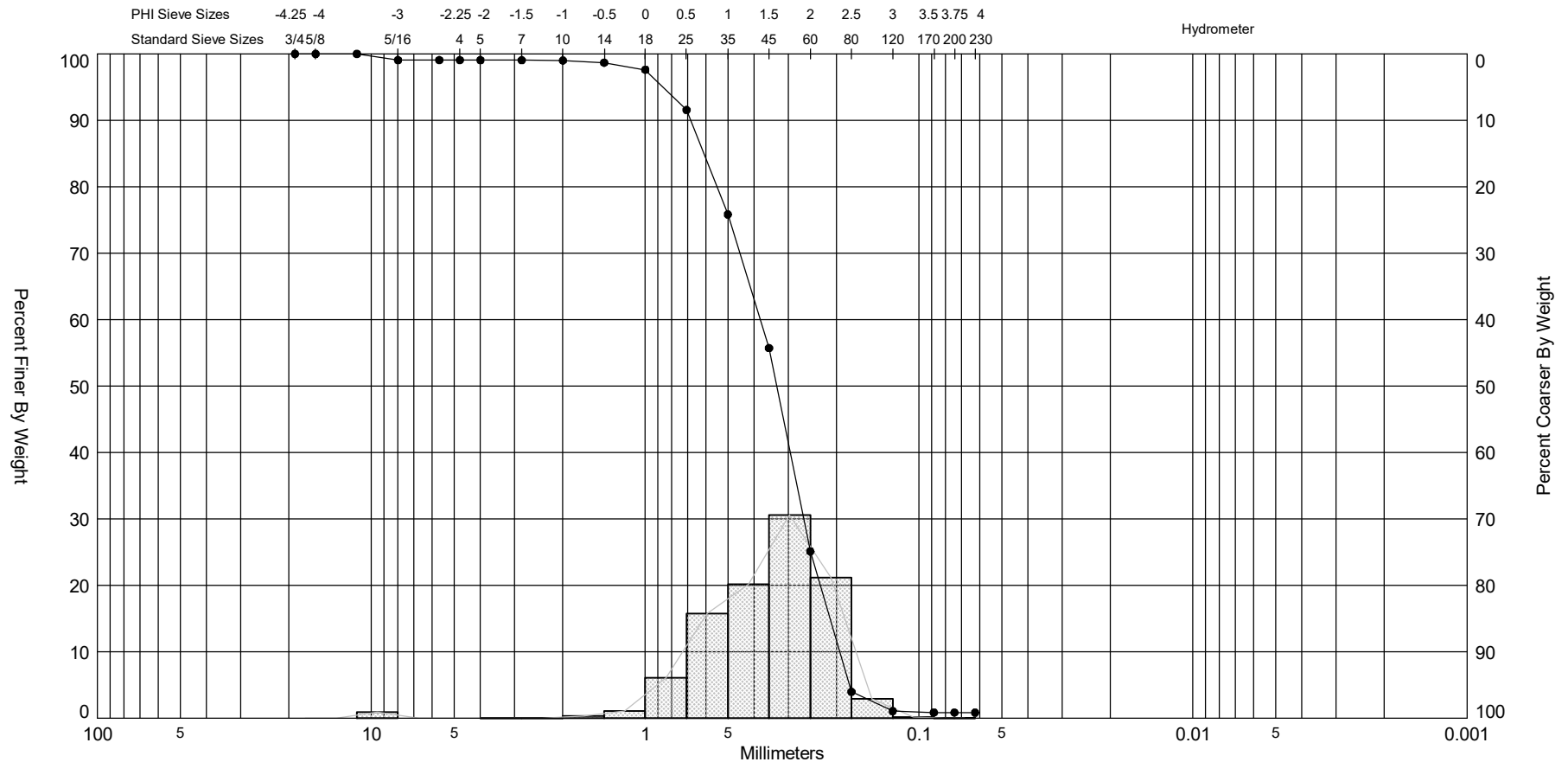
CURRITUCK COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-002 Mid-Berm	—●—	6.3	SP	#200 - 0.20 #230 - 0.19			1.19	1.24	0.17	2.87	0.68	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-27-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,920,222
												Northing (Y, ft):	1,032,734
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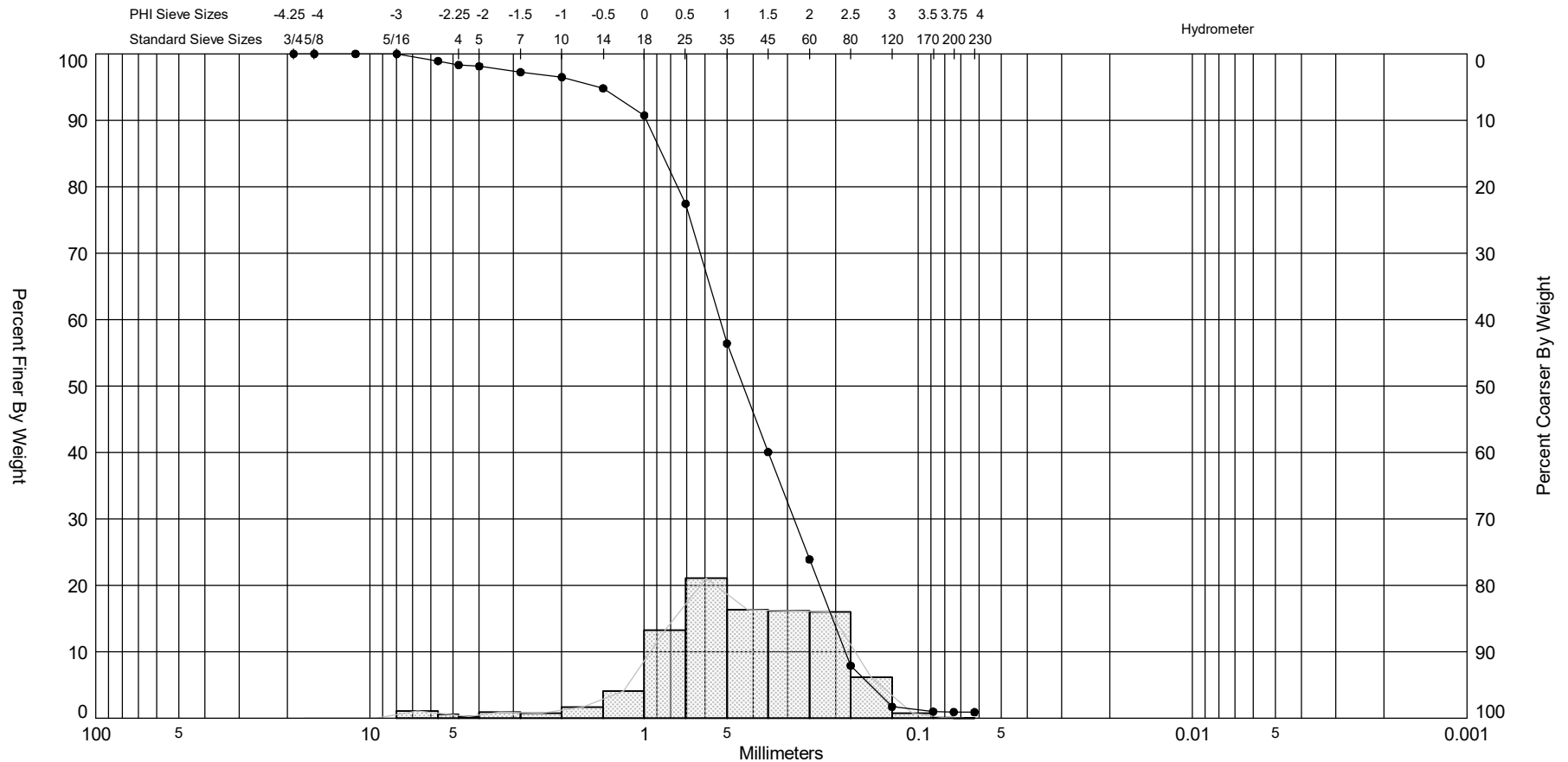
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-002 MHW	—●—	1.2	SP	#200 - 0.85 #230 - 0.84			1.59	1.46	-2.01	12.19	0.81	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-27-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,920,270
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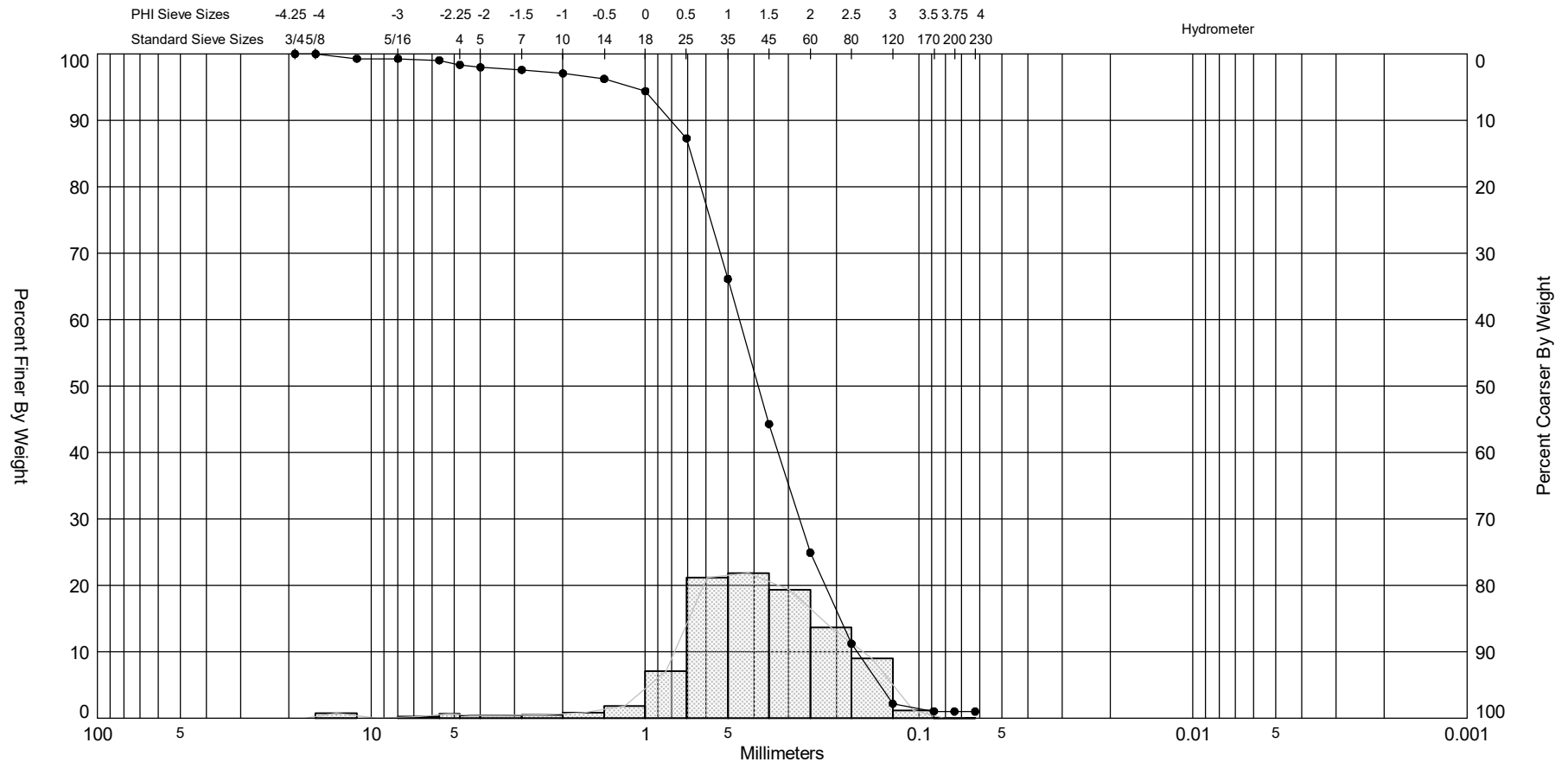
CURRITUCK COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-002 MT	—●—	-0.4	SW	#200 - 0.91 #230 - 0.89			1.2	1.15	-0.89	4.69	1.06	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-27-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,920,310
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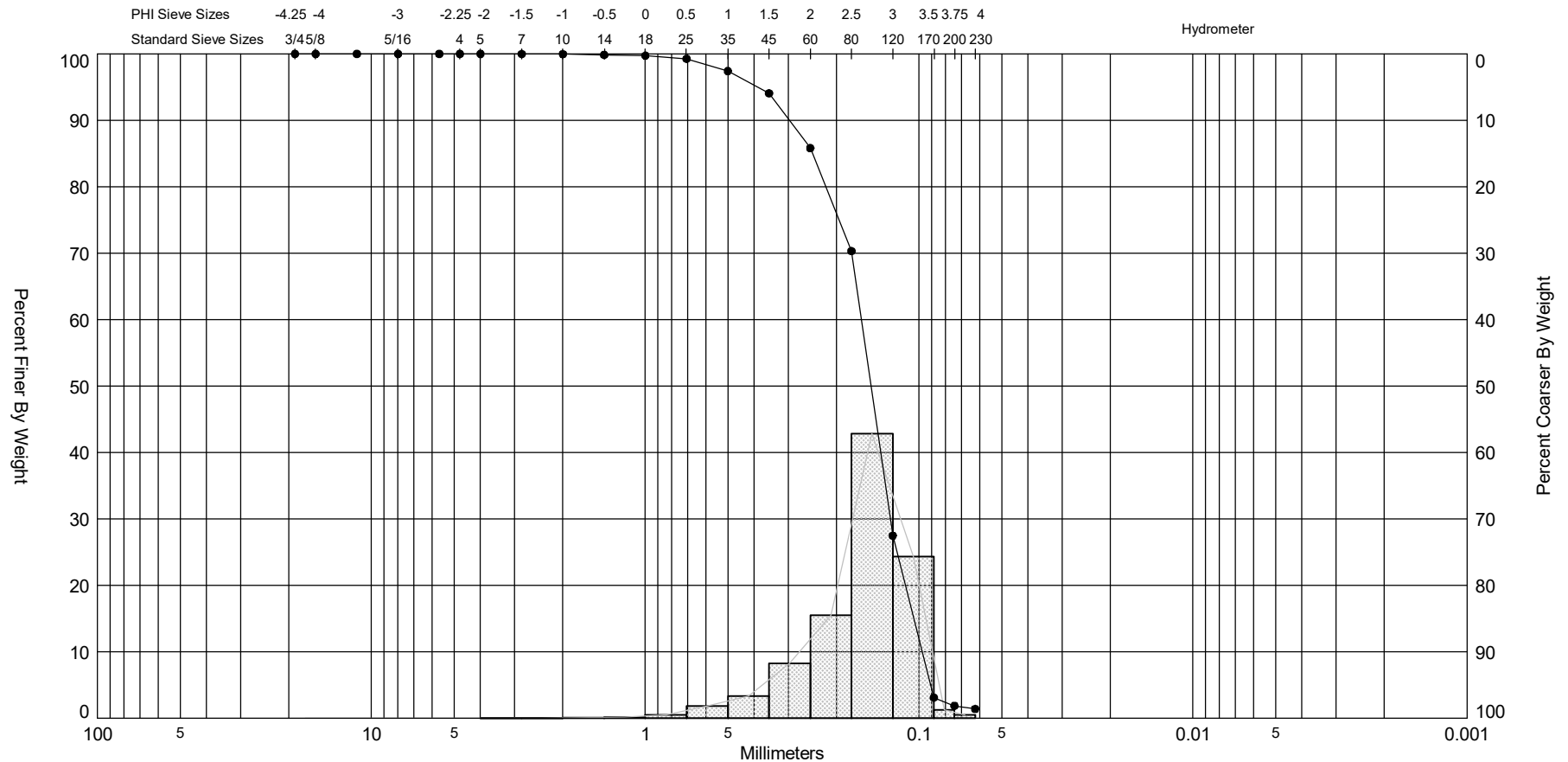
CURRITUCK COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-002 MLW	—●—	-2.2	SW	#200 - 1.01 #230 - 0.99			1.37	1.32	-1.45	7.87	1.03	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-27-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,920,371
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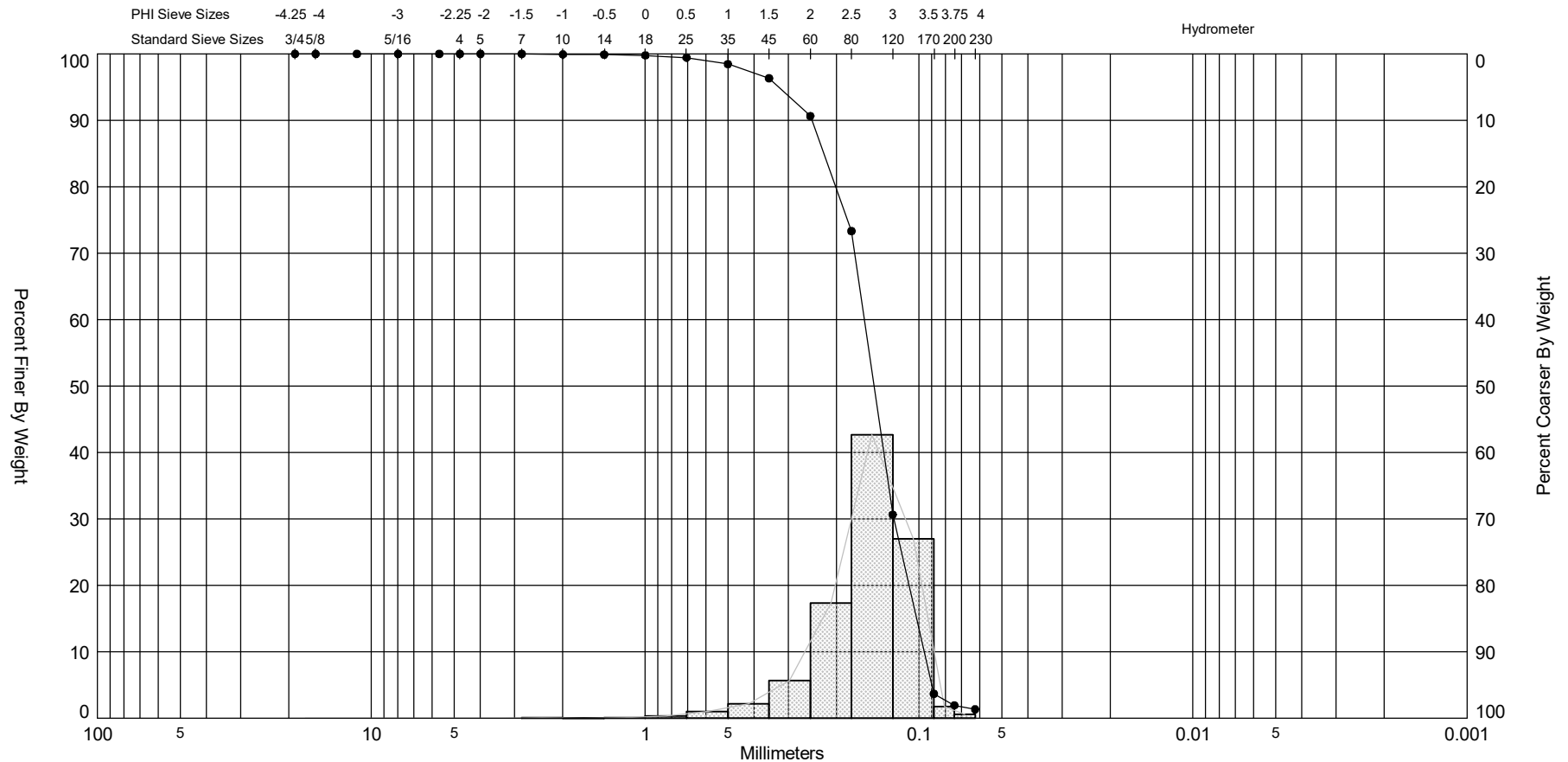
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-002 Trough	—●—	-9.1	SP	#200 - 1.86 #230 - 1.38			2.74	2.62	-1.4	6.08	0.63	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-28-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,920,716
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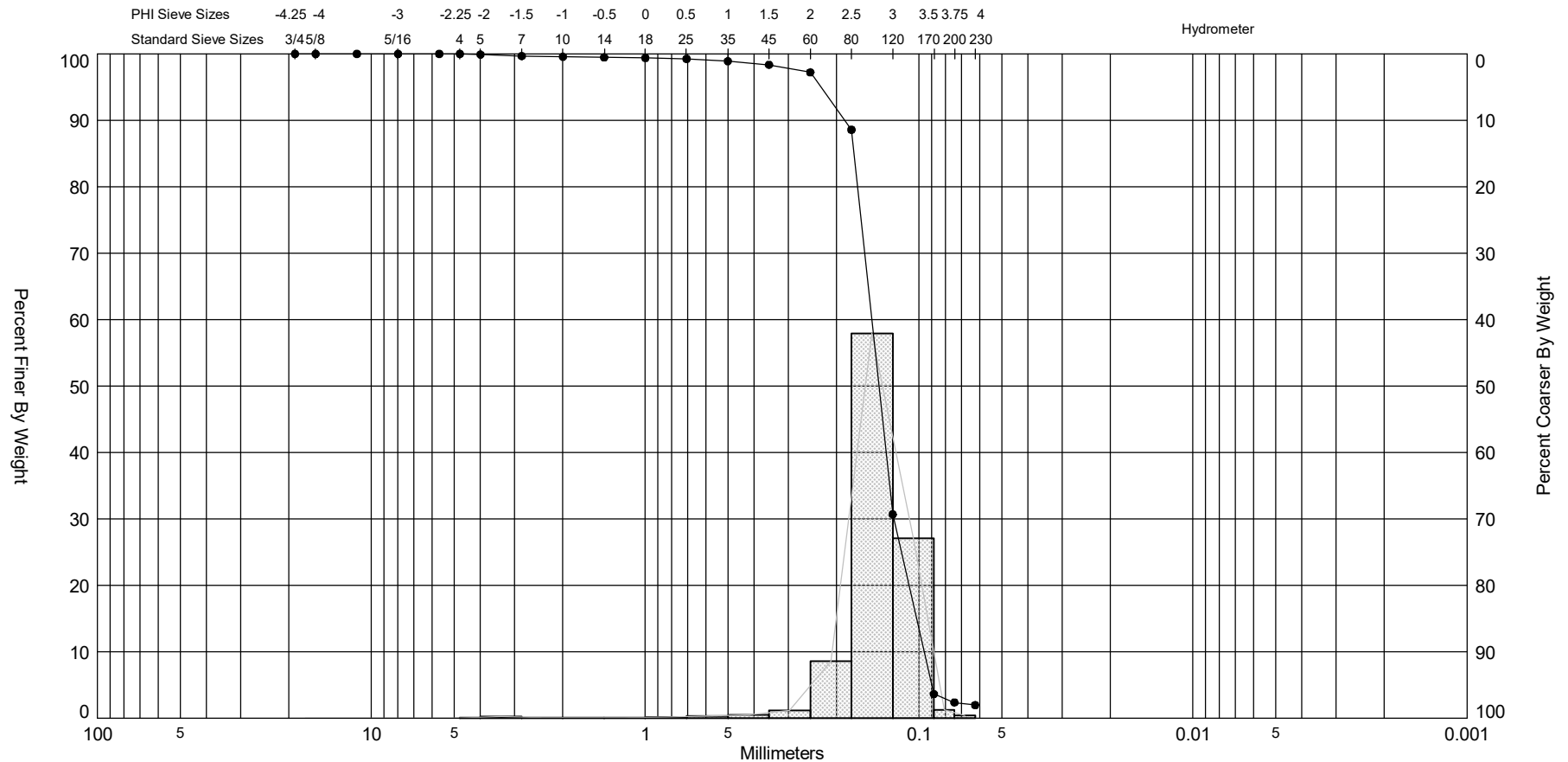
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-002 Bar	—●—	-8.6	SP	#200 - 1.93 #230 - 1.34			2.77	2.7	-1.45	7.29	0.57	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-27-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,920,912
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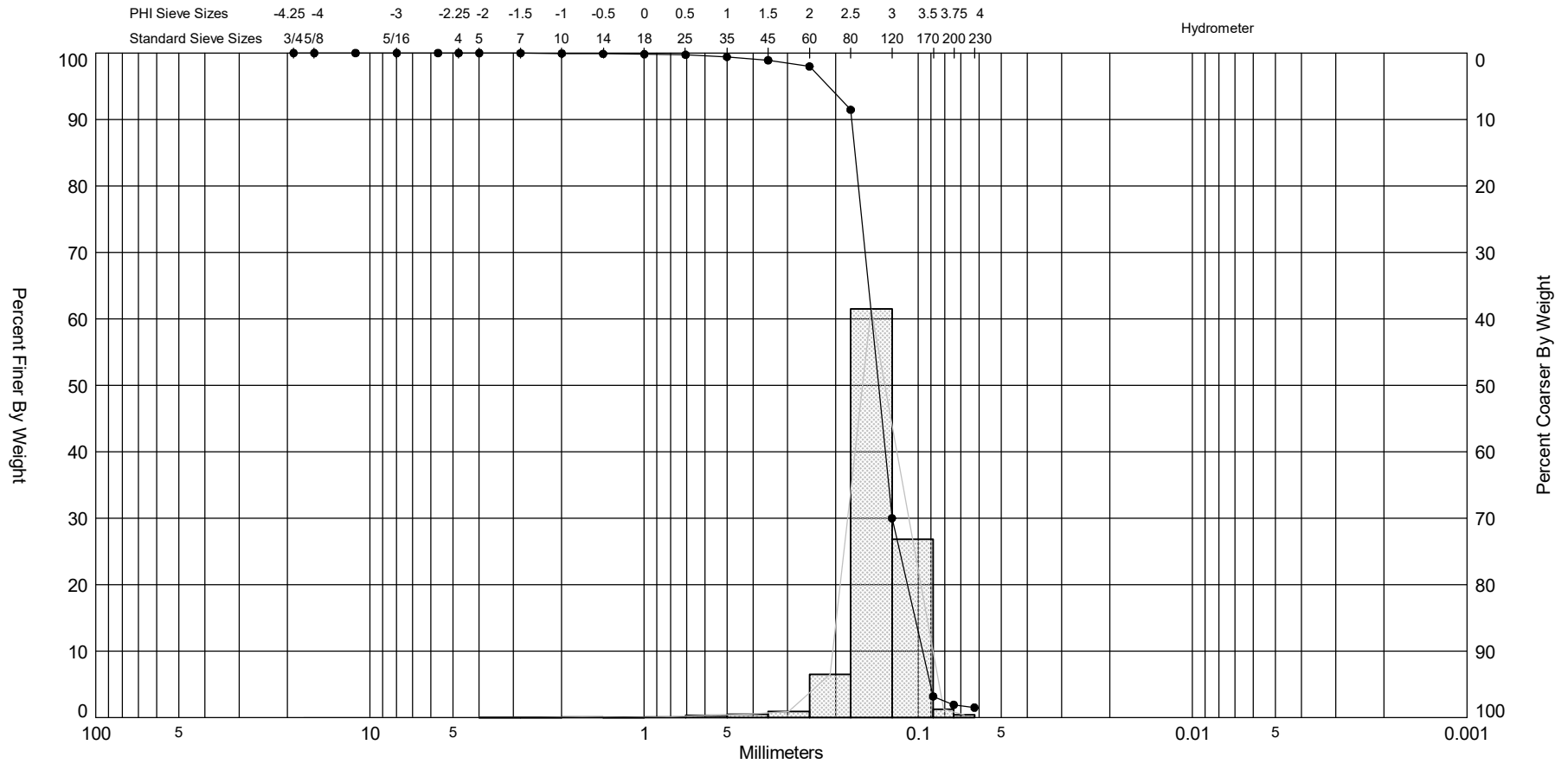
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-002 -12	—●—	-12.1	SP	#200 - 2.37 #230 - 1.96			2.83	2.8	-4.15	34.51	0.51	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-27-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,921,251
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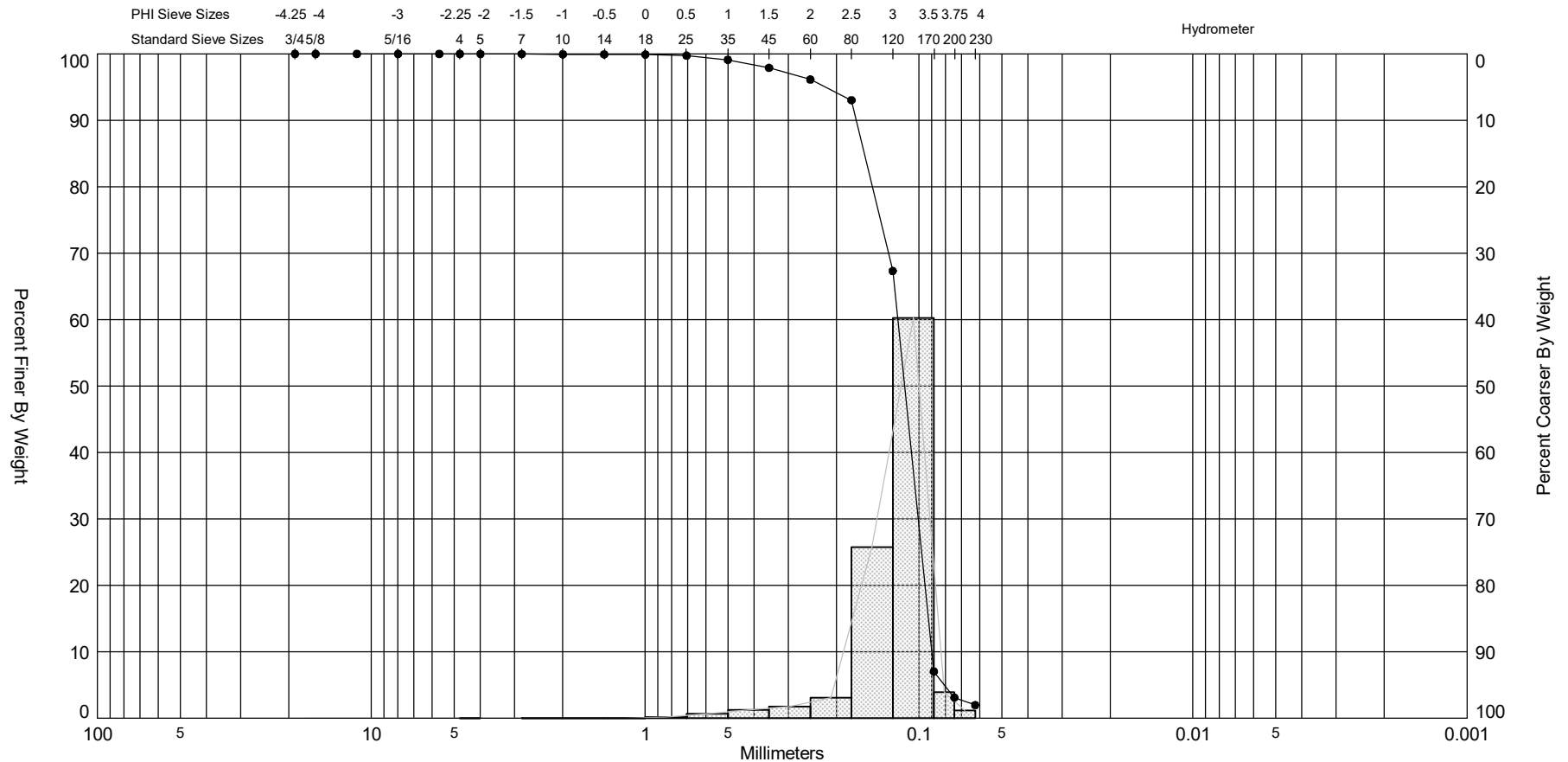
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-002 -14	—●—	-14.0	SP	#200 - 1.92 #230 - 1.50			2.84	2.84	-2.54	22.42	0.39	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-28-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,921,426
												Northing (Y, ft):	1,032,966
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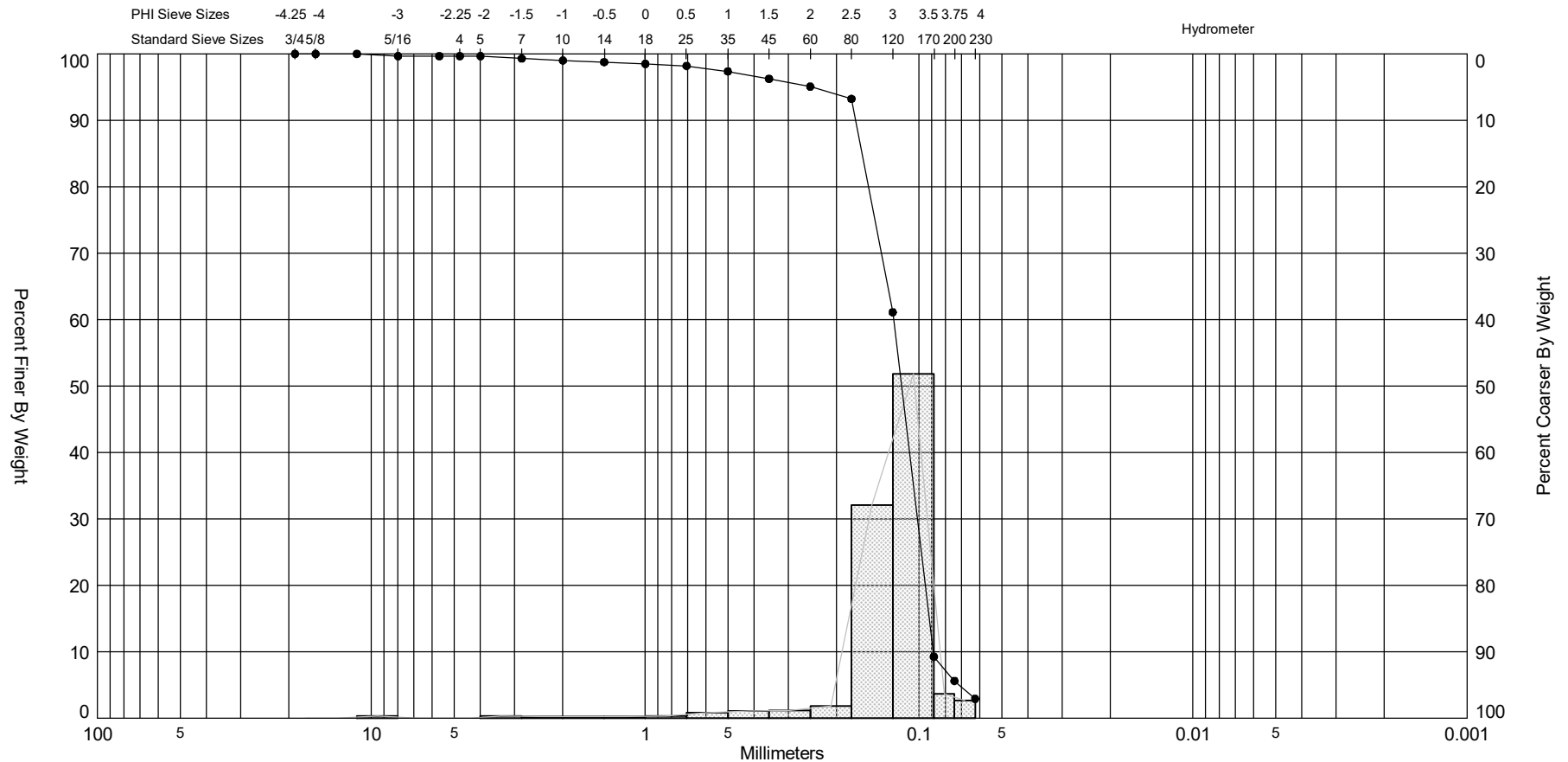
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-002 -16	—●—	-16.3	SP	#200 - 3.10 #230 - 1.96			3.14	3.03	-2.78	16.07	0.47	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-28-20
Depths and elevations based on measured values												Analyzed By:	SF
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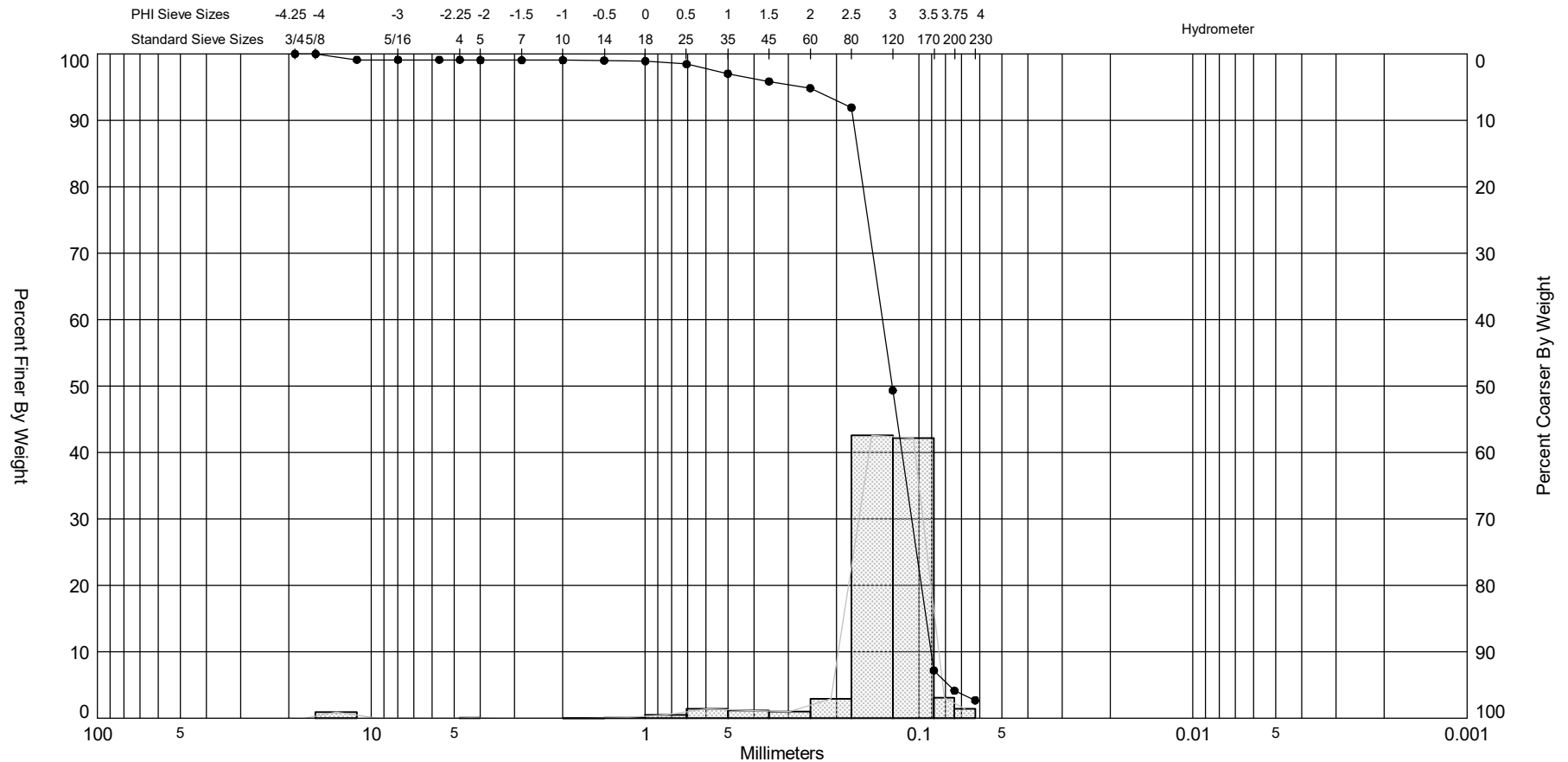
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-002 -18	—●—	-18.1	SP-SM	#200 - 5.61 #230 - 2.91			3.11	2.95	-4.42	29.36	0.75	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-28-20
Depths and elevations based on measured values												Analyzed By:	SF
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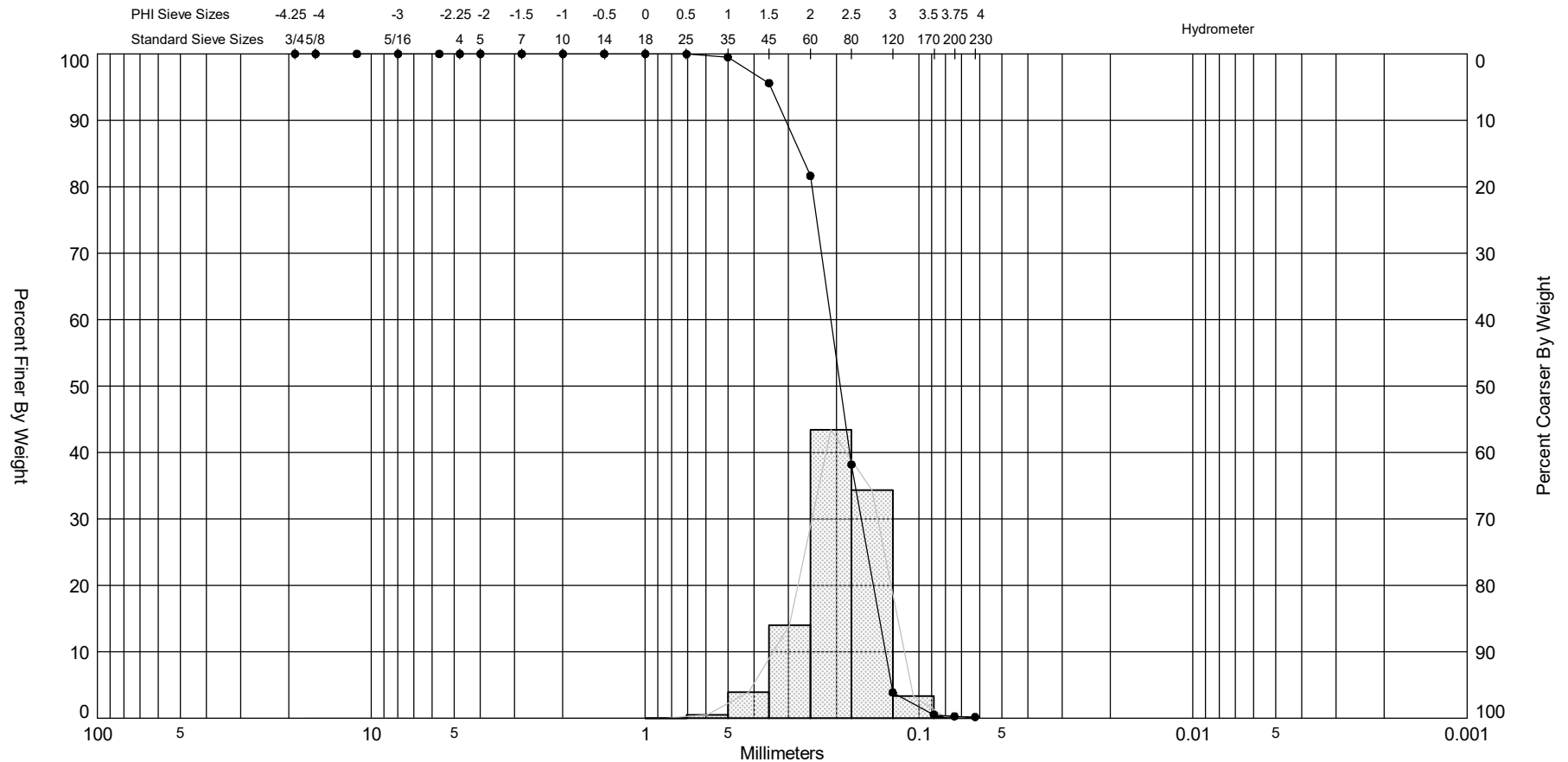
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-002 -20	—●—	-20.1	SP	#200 - 4.13 #230 - 2.70			2.99	2.86	-5.27	39.51	0.83	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-28-20
Depths and elevations based on measured values												Analyzed By:	SF
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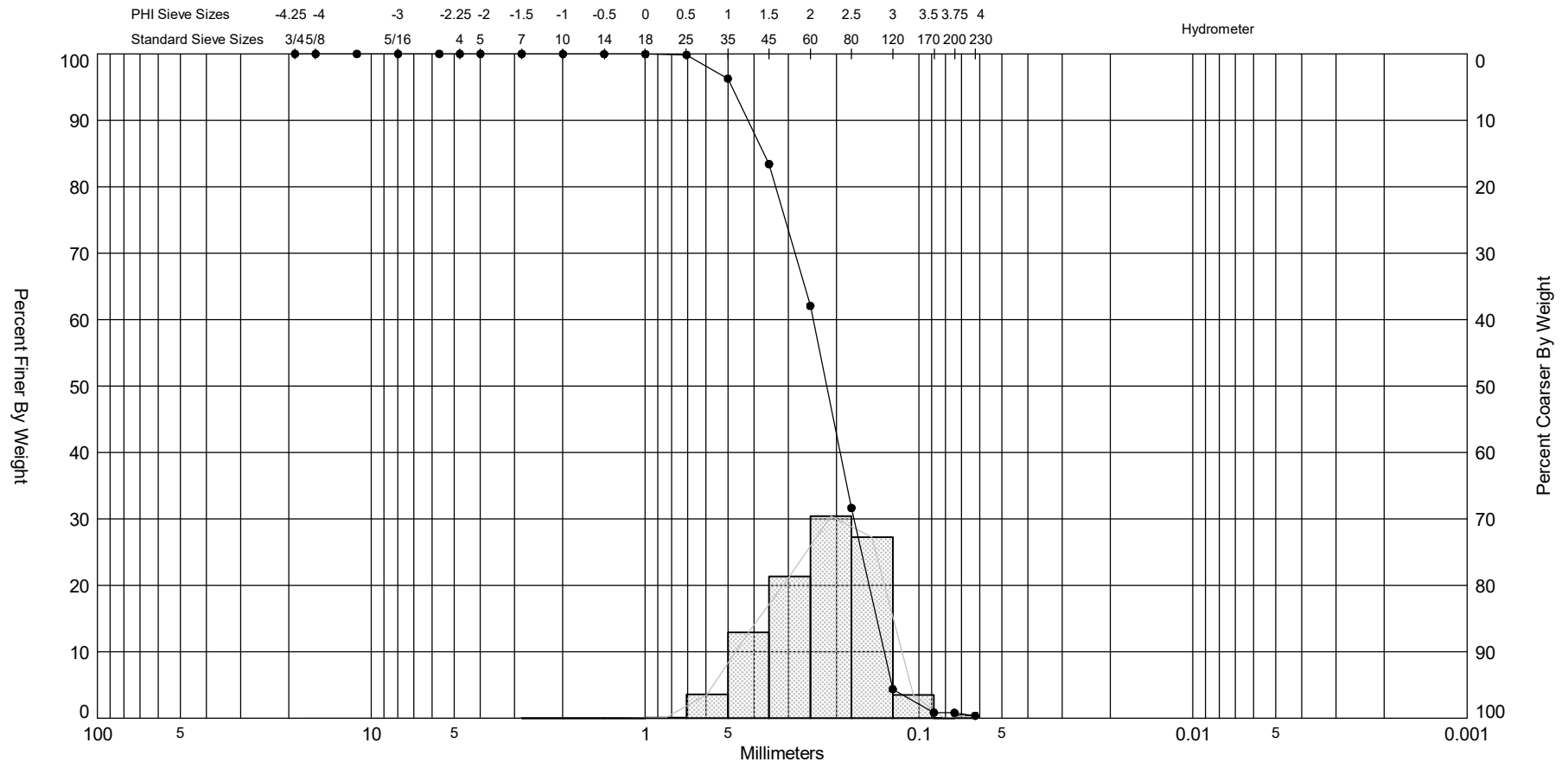
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-017 Dune	—●—	13.5	SP	#200 - 0.28 #230 - 0.18			2.36	2.34	-0.49	3.69	0.45	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-28-20
Depths and elevations based on measured values												Analyzed By:	SF
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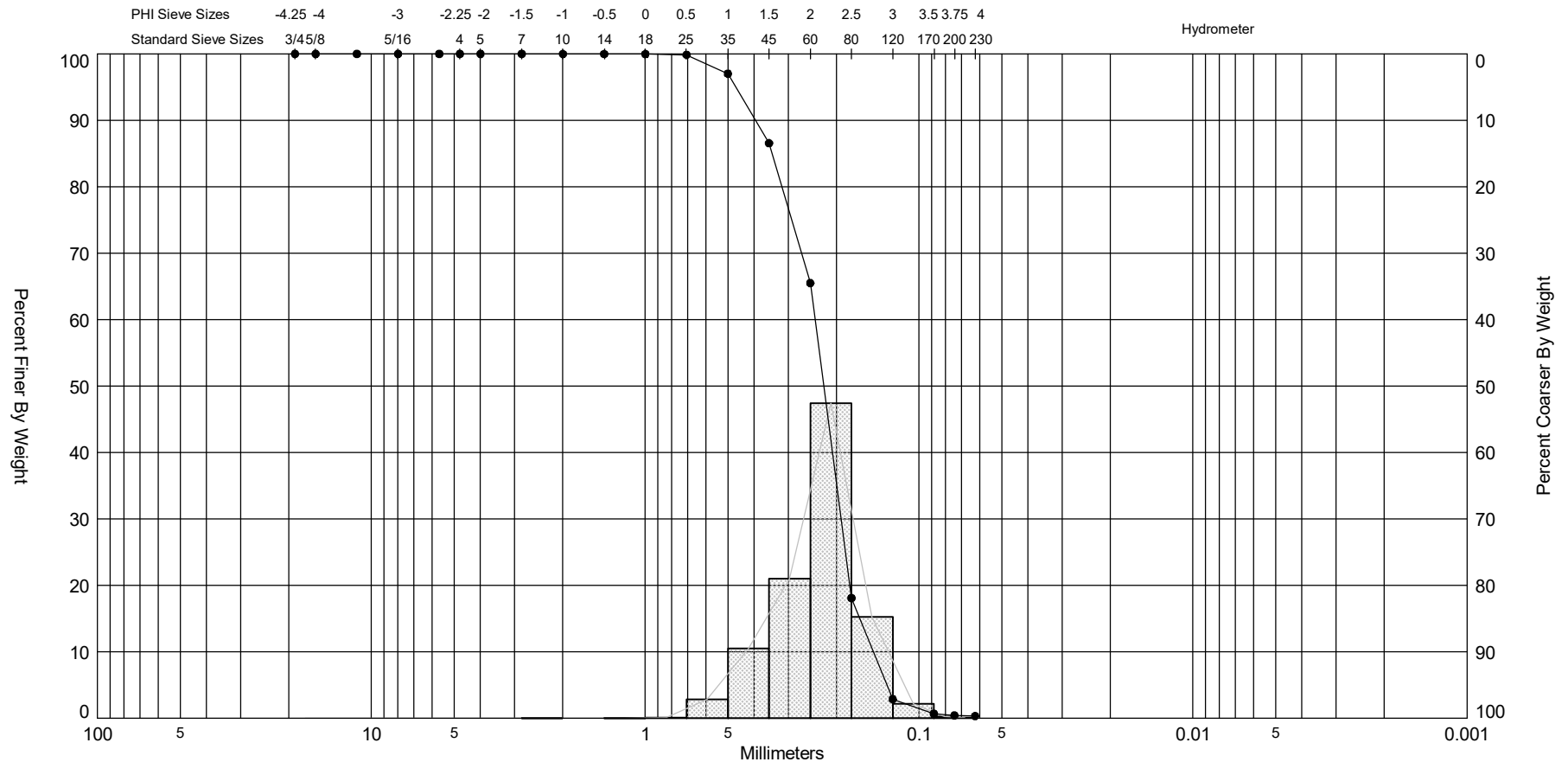
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-017 Dune Toe	—●—	8.4	SP	#200 - 0.80 #230 - 0.37			2.2	2.14	-0.34	2.85	0.61	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-28-20
Depths and elevations based on measured values												Analyzed By:	SF
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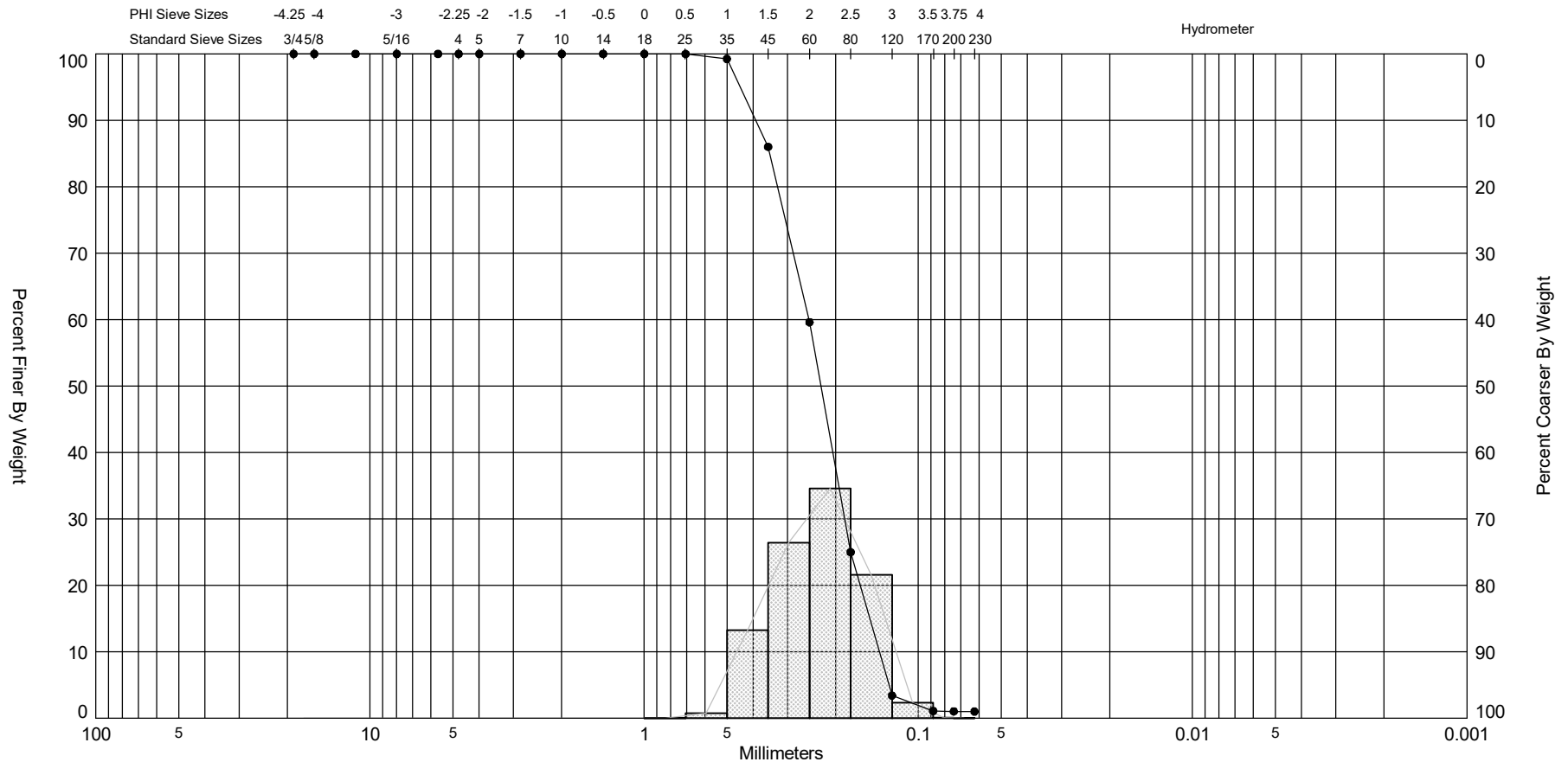
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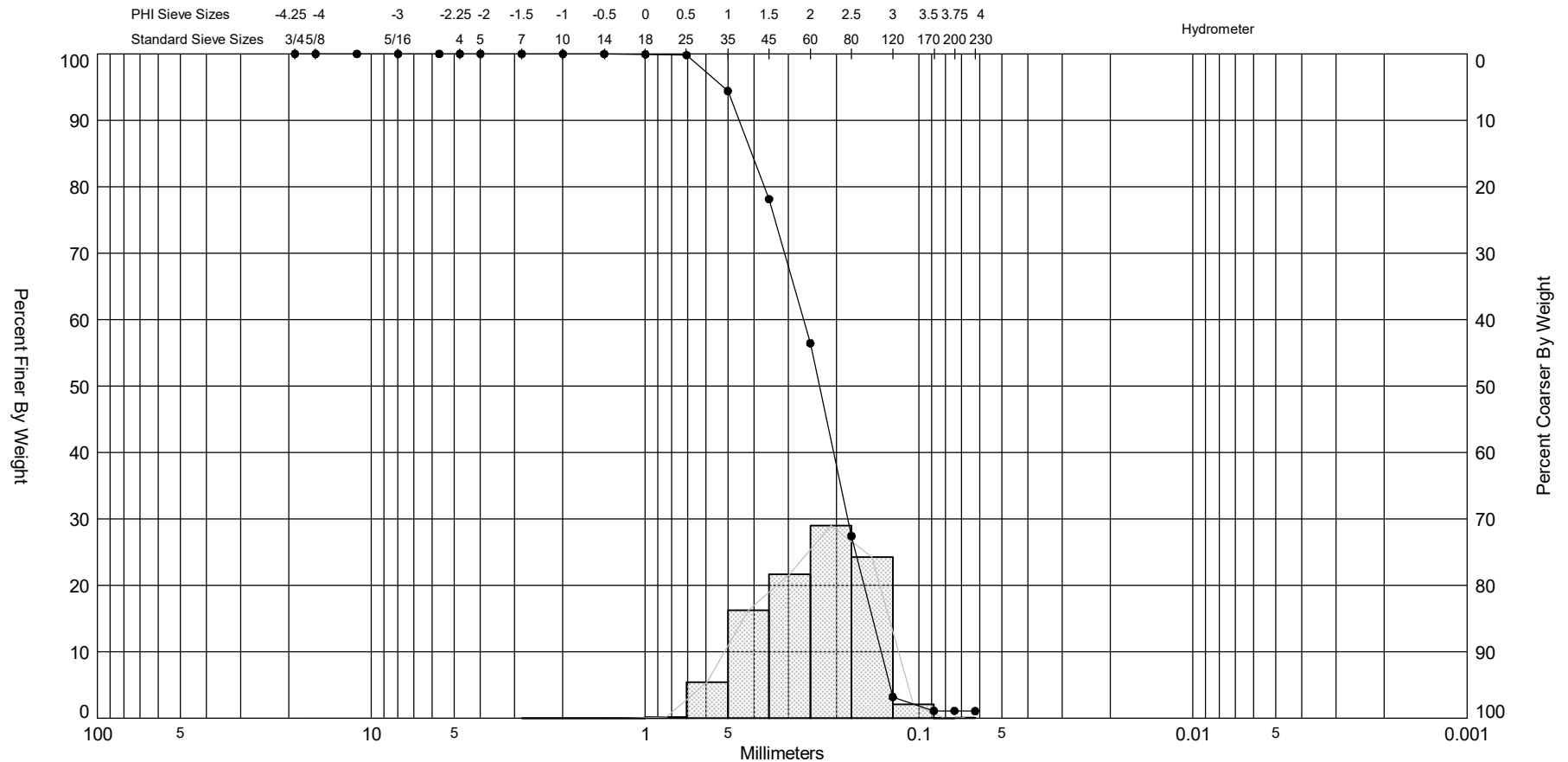
Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
C-017 Mid-Berm	—●—	4.7	SP	#200 - 0.41 #230 - 0.32			2.16	2.1	-0.46	3.75	0.52	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-28-20
Depths and elevations based on measured values												Analyzed By:	SF
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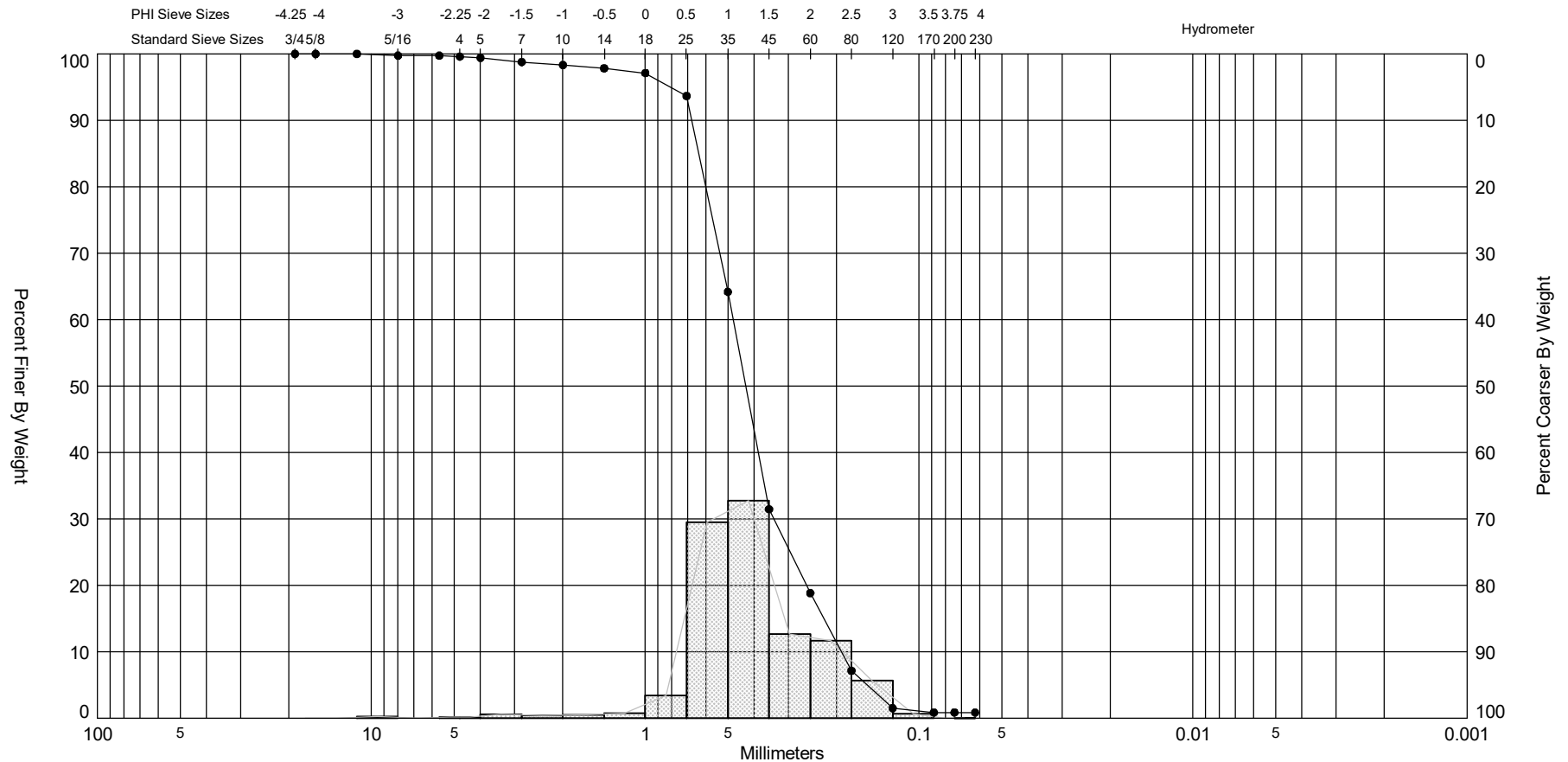
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20



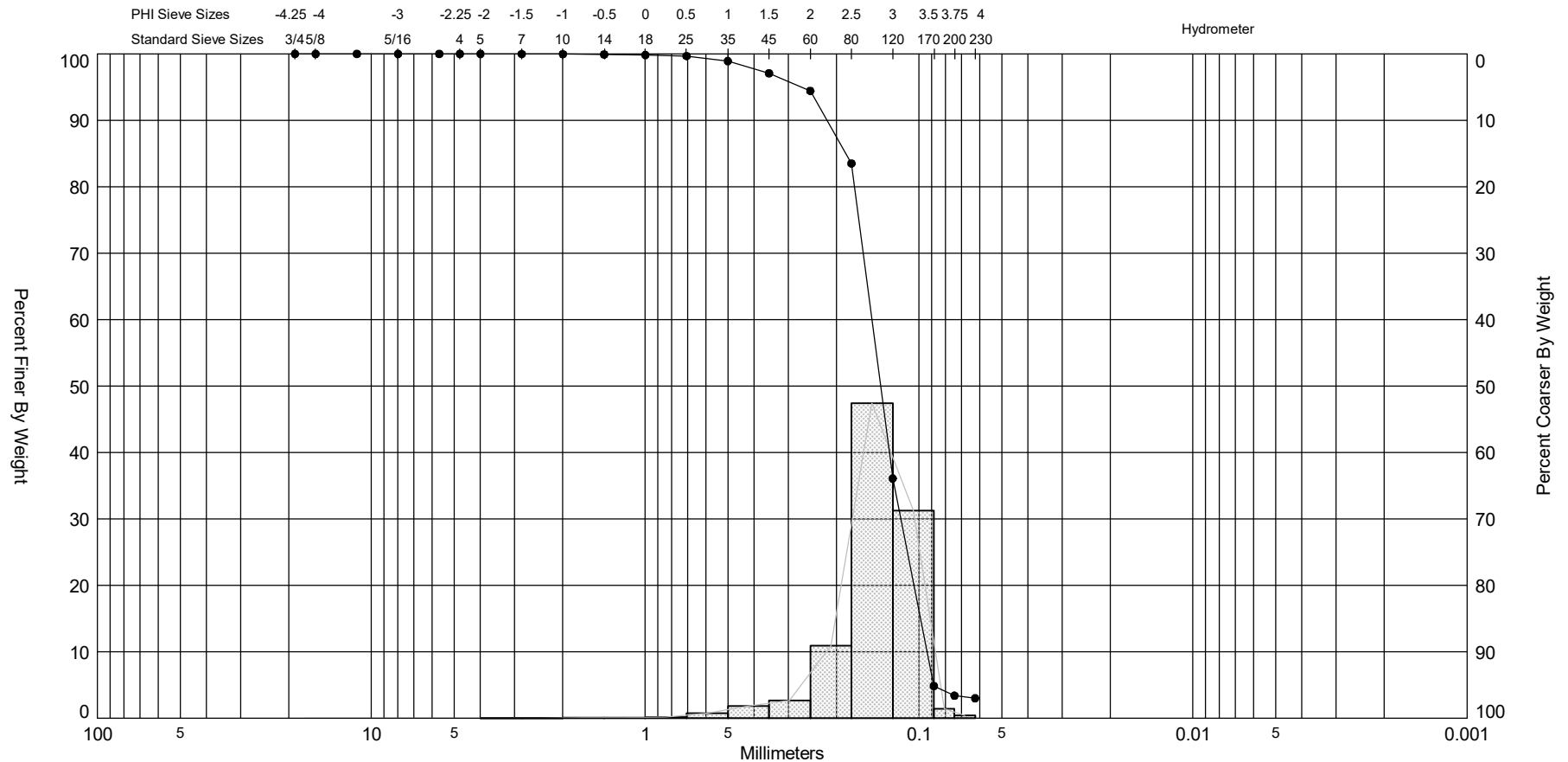
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-017 MLW	—●—	-2.2	SP	#200 - 0.86 #230 - 0.85			1.22	1.27	-0.84	7.55	0.79	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-28-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,923,326
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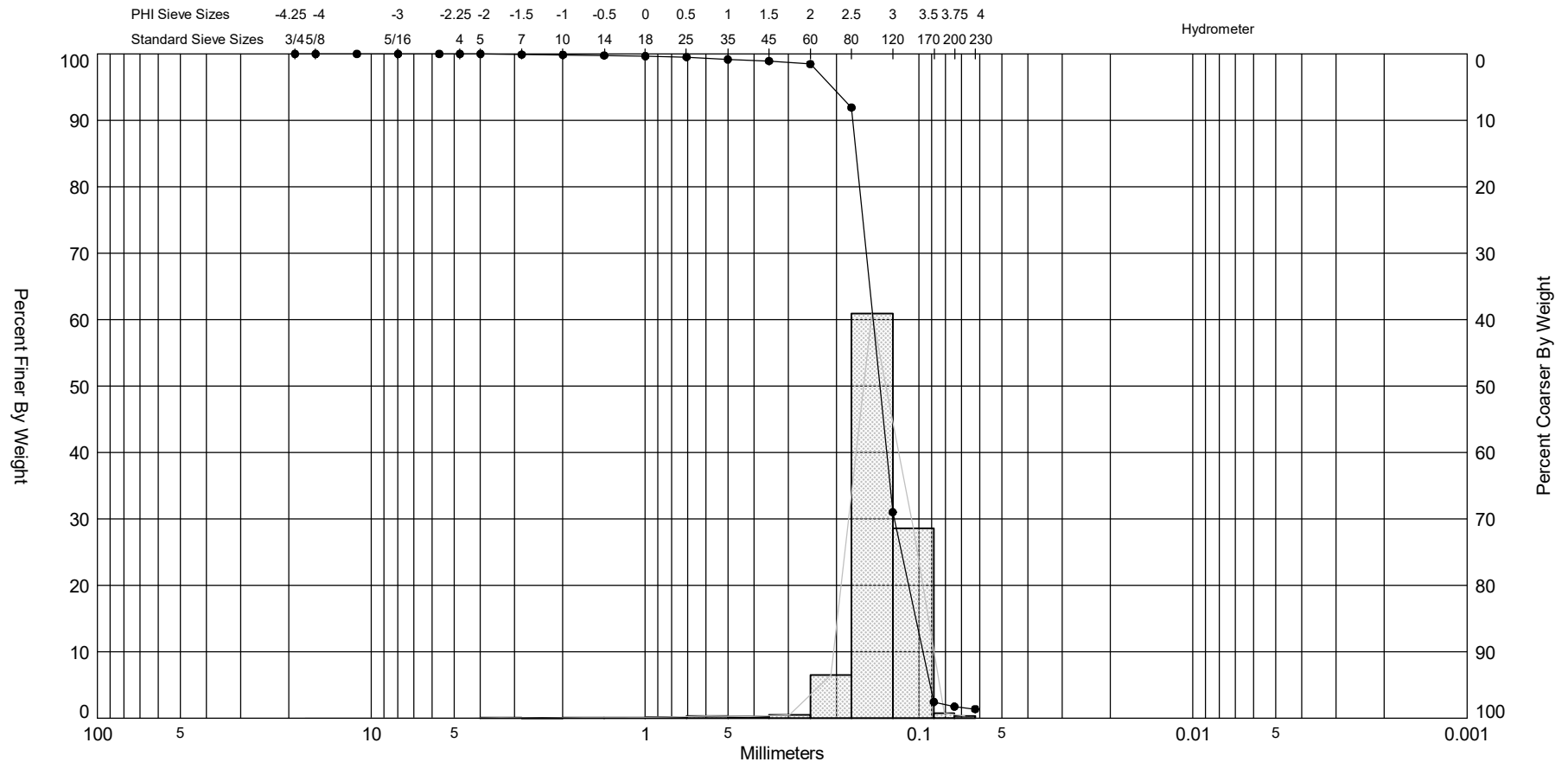
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-017 Trough	—●—	-10.8	SP	#200 - 3.39 #230 - 2.99			2.85	2.79	-1.91	10.47	0.51	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-29-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,923,801
												Northing (Y, ft):	1,018,226
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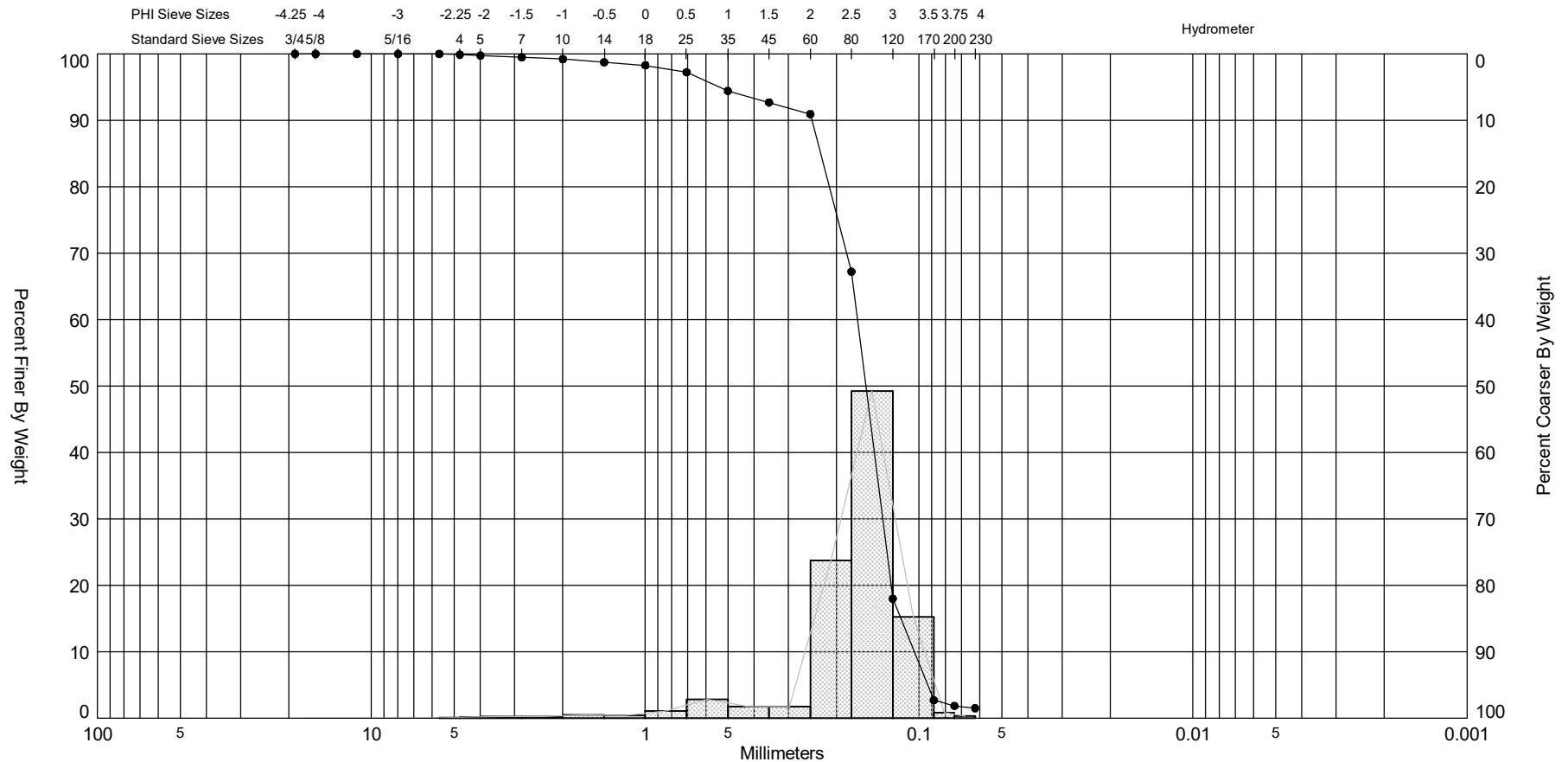
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-017 Bar	—●—	-9.7	SP	#200 - 1.74 #230 - 1.37			2.84	2.84	-3.62	33.3	0.41	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-29-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,924,049
												Northing (Y, ft):	1,018,276
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

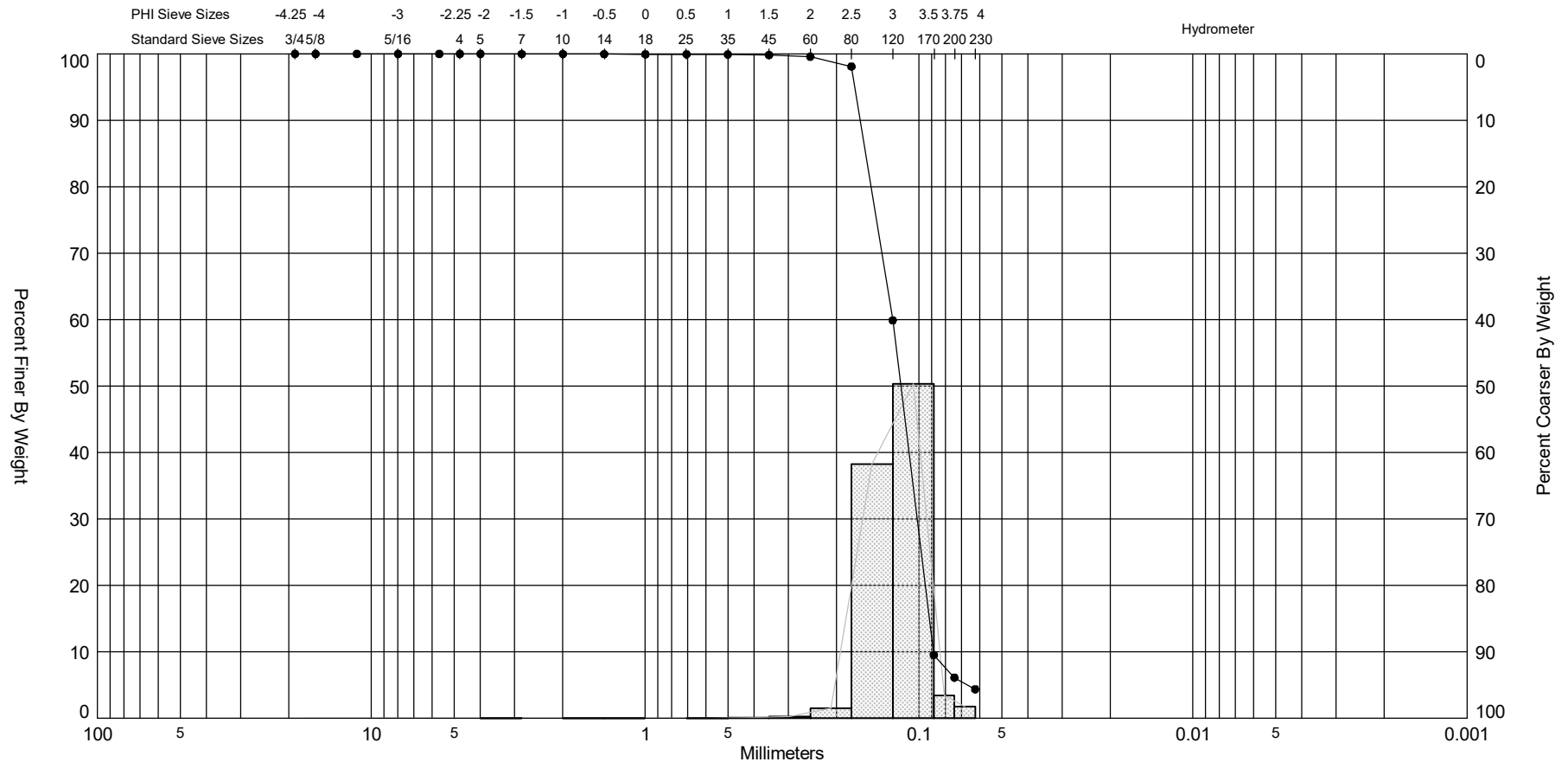
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-017 -12	—●—	-12.2	SP	#200 - 1.85 #230 - 1.50			2.67	2.52	-2.74	13.67	0.75	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-29-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,924,282
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												Horizontal Datum:	NAD 1983
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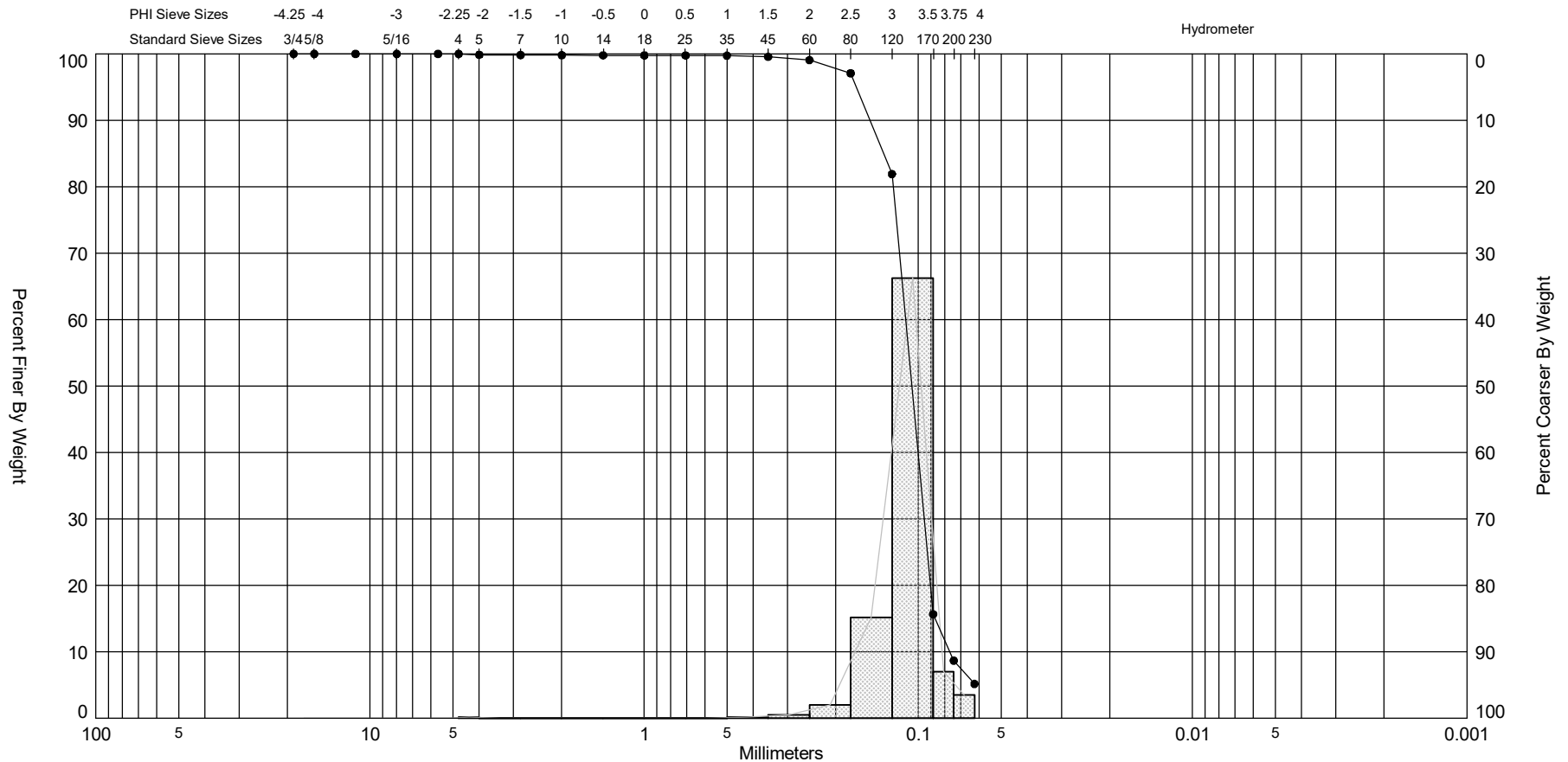
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-017 -18	—●—	-18.1	SP-SM	#200 - 6.11 #230 - 4.36			3.1	3.05	-1.47	18.72	0.33	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-29-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,924,915
												Northing (Y, ft):	1,018,437
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

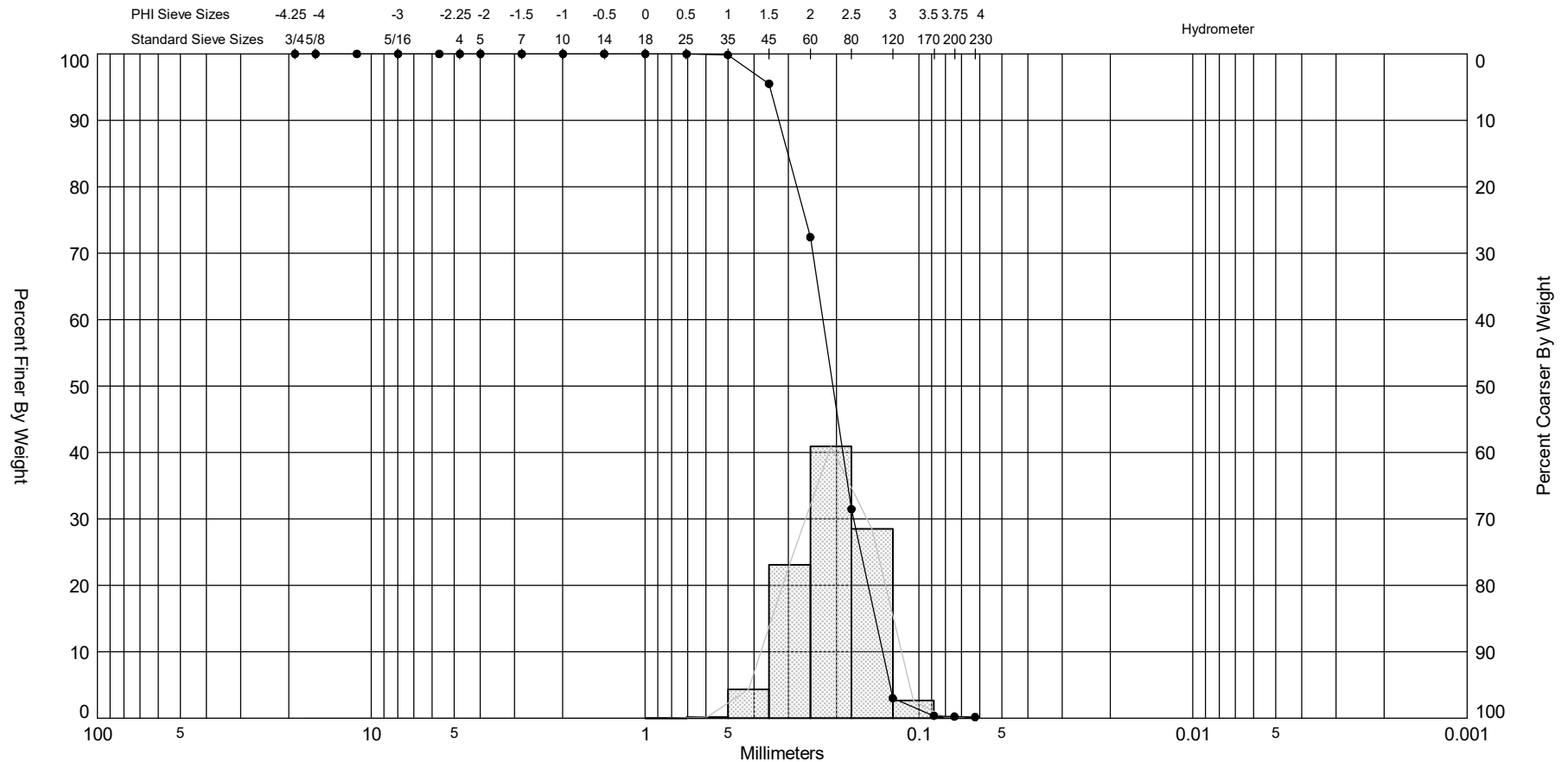
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-017 -20	—●—	-20.0	SP-SM	#200 - 8.66 #230 - 5.15			3.24	3.17	-5.27	60.9	0.41	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-29-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,925,204
												Northing (Y, ft):	1,018,487
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

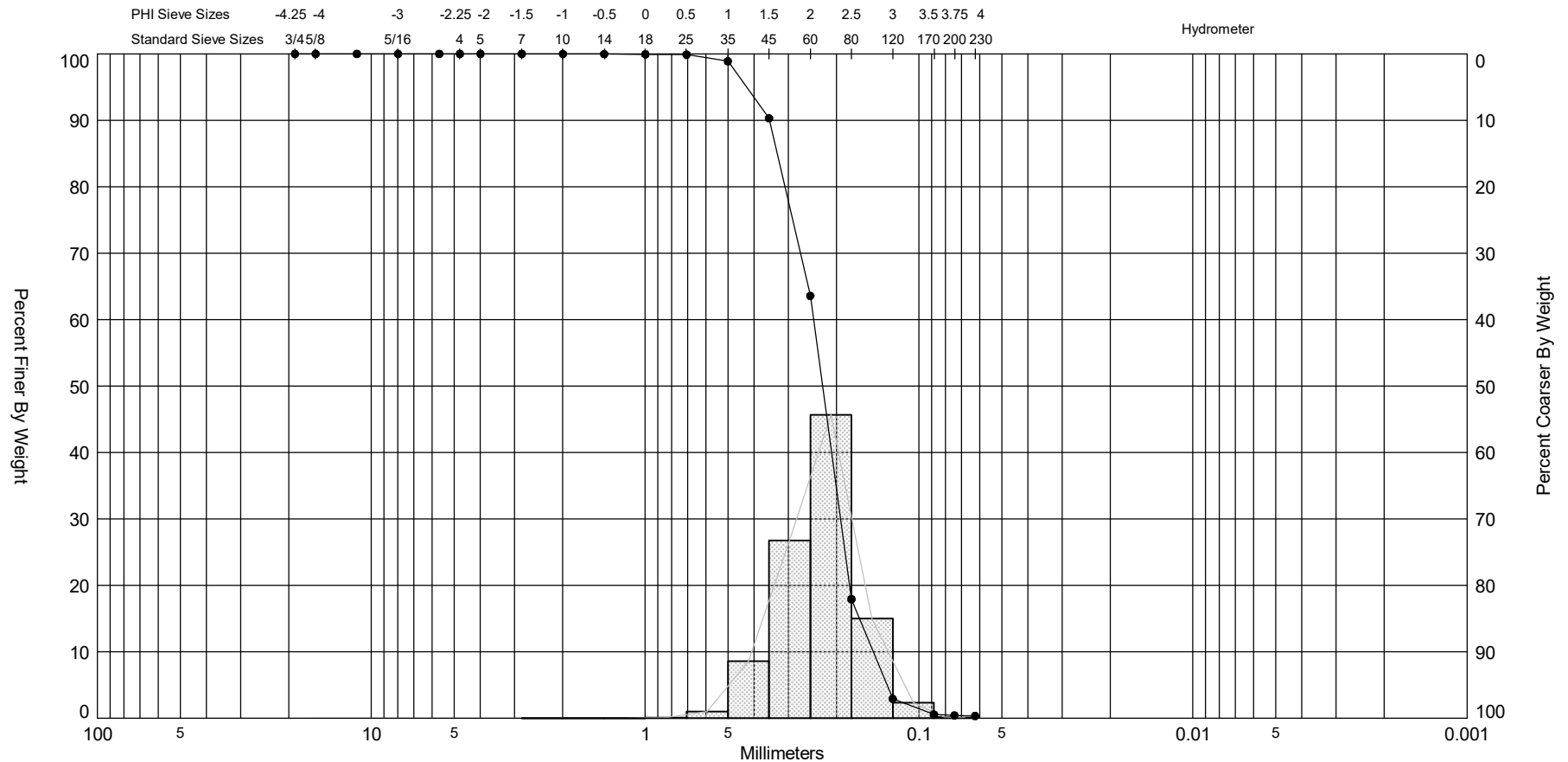
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-031 Dune	—●—	12.6	SP	#200 - 0.24 #230 - 0.16			2.27	2.26	-0.17	2.83	0.45	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-29-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,926,155
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												Horizontal Datum:	NAD 1983
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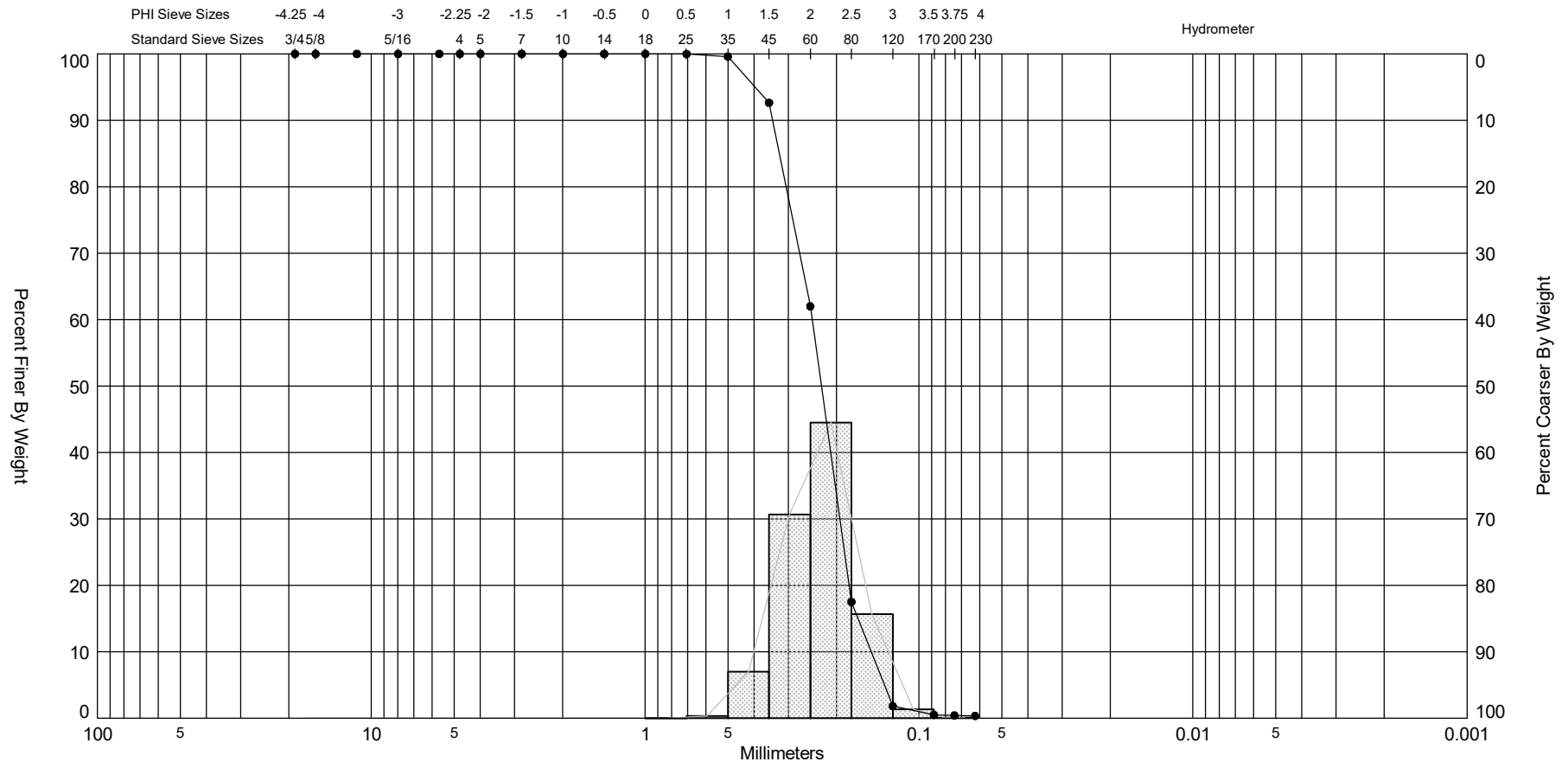
CURRITUCK COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-031 Dune Toe	—●—	9.3	SP	#200 - 0.41 #230 - 0.34			2.15	2.11	-0.23	3.97	0.48	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-29-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,926,184
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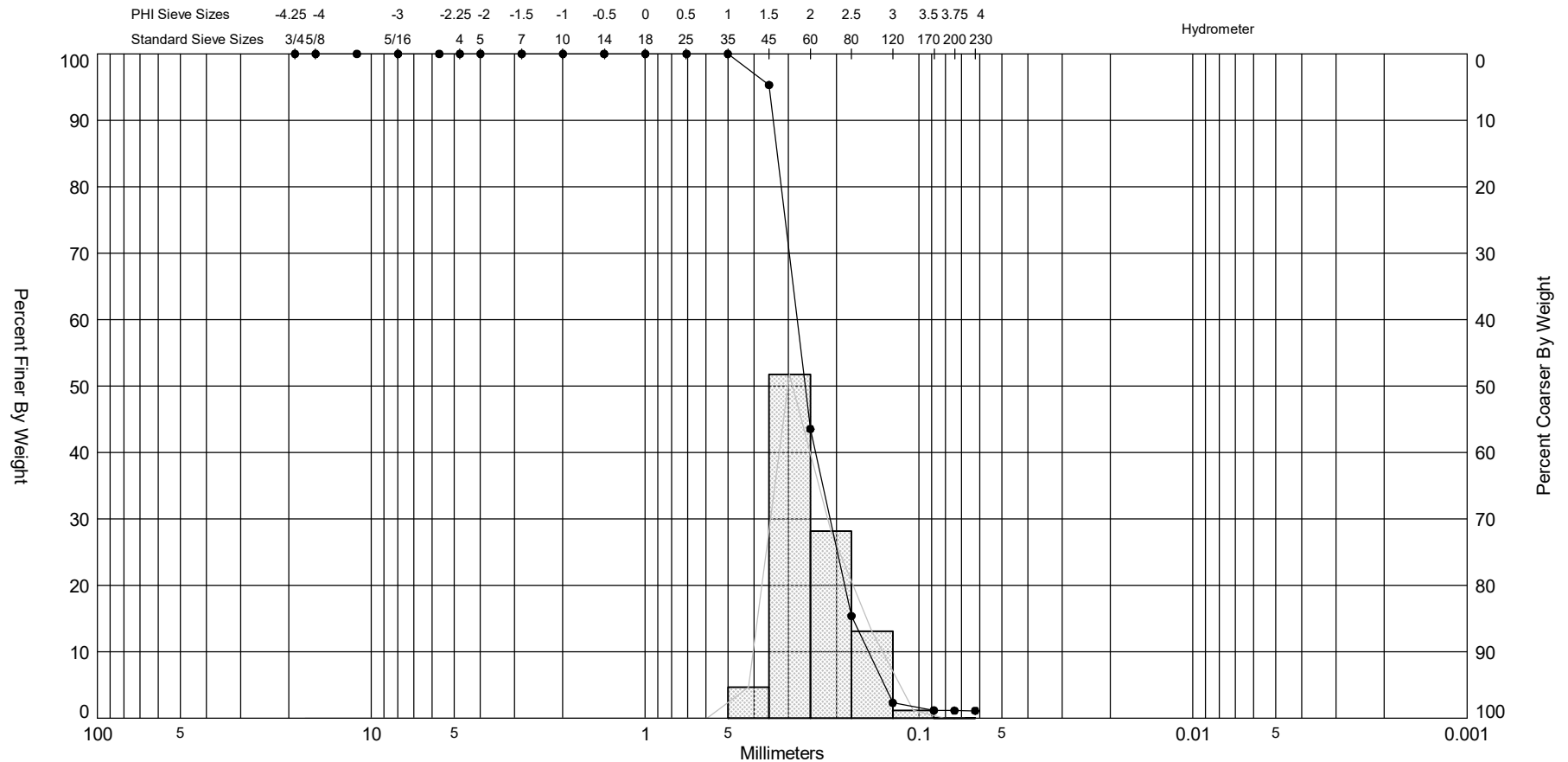
CURRITUCK COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-031 Mid-Berm	—●—	5.1	SP	#200 - 0.42 #230 - 0.35			2.13	2.11	-0.04	3.17	0.44	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	05-29-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,926,281
												Northing (Y, ft):	1,004,463
												Horizontal Datum:	NAD 1983
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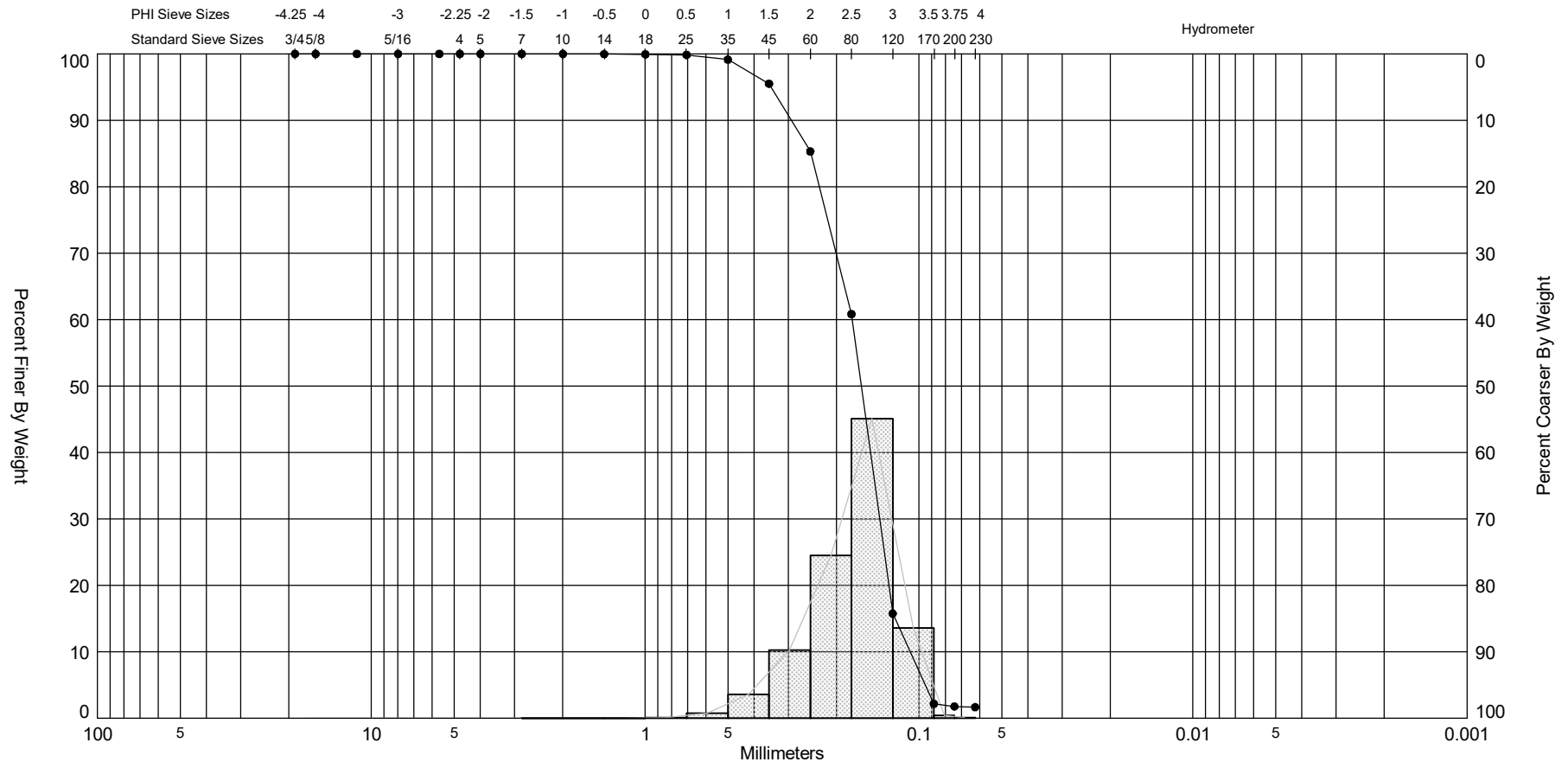
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-031 MHW	—●—	1.5	SP	#200 - 1.13 #230 - 1.12			1.94	2.02	0.67	3.03	0.41	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-01-20
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):	2,926,378
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												Horizontal Datum:	NAD 1983
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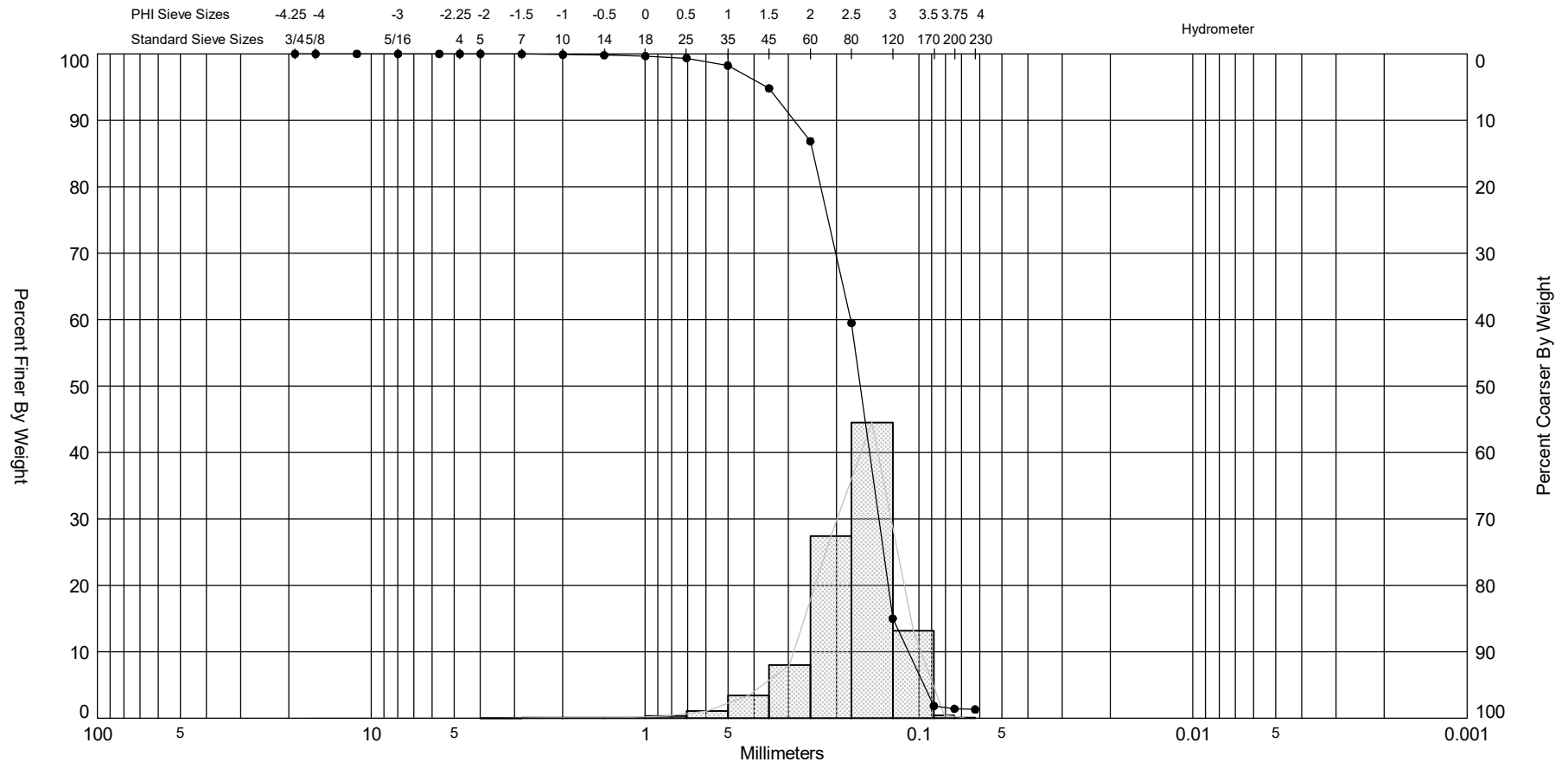
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-031 Trough	—●—	-10.7	SP	#200 - 1.77 #230 - 1.65			2.62	2.52	-0.9	4.48	0.53	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-01-20
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):	2,926,999
												Northing (Y, ft):	1,004,622
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

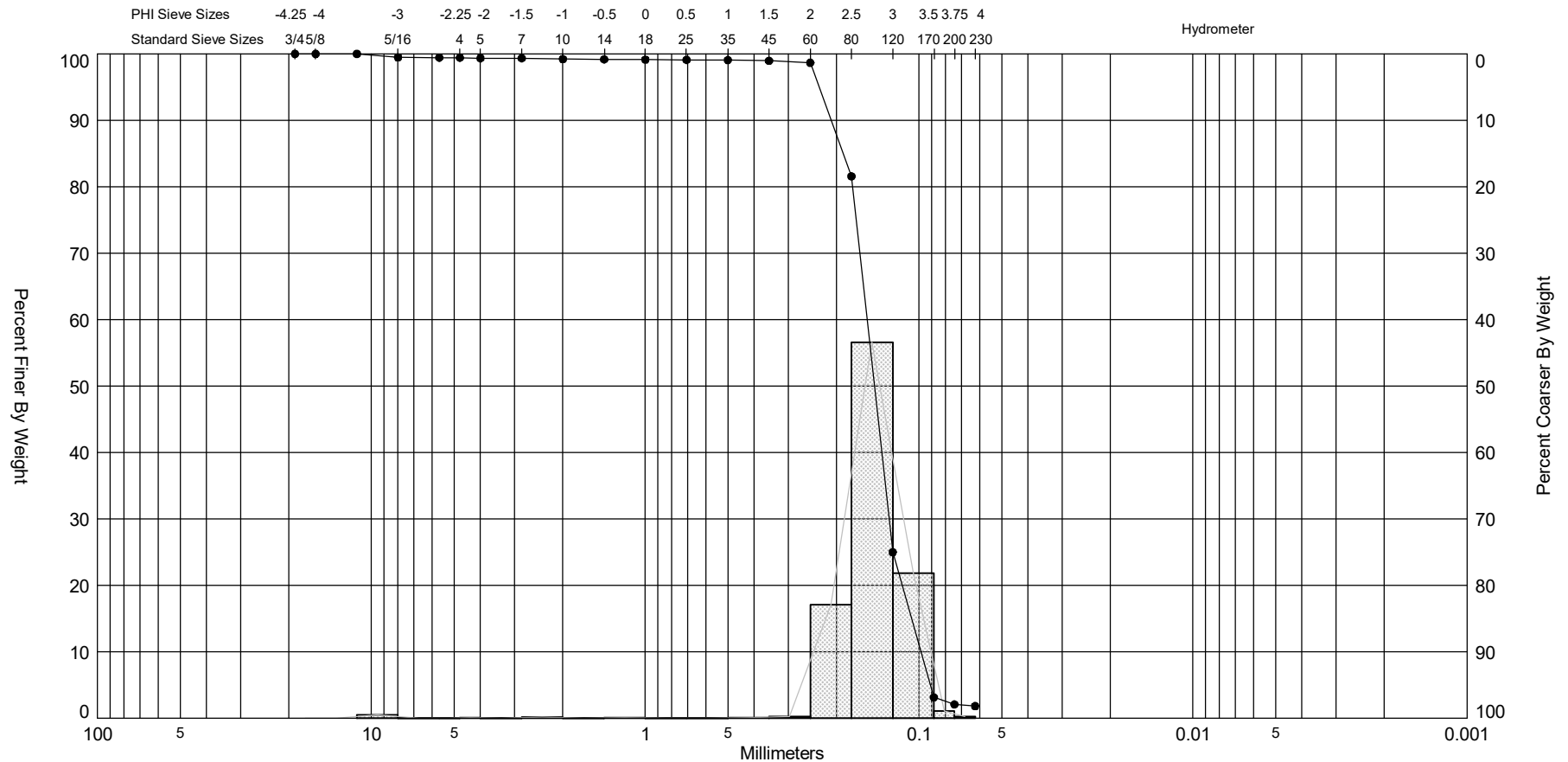
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-031 Bar	—●—	-9.1	SP	#200 - 1.40 #230 - 1.30			2.61	2.51	-1.49	8.06	0.56	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-01-20
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):	2,927,189
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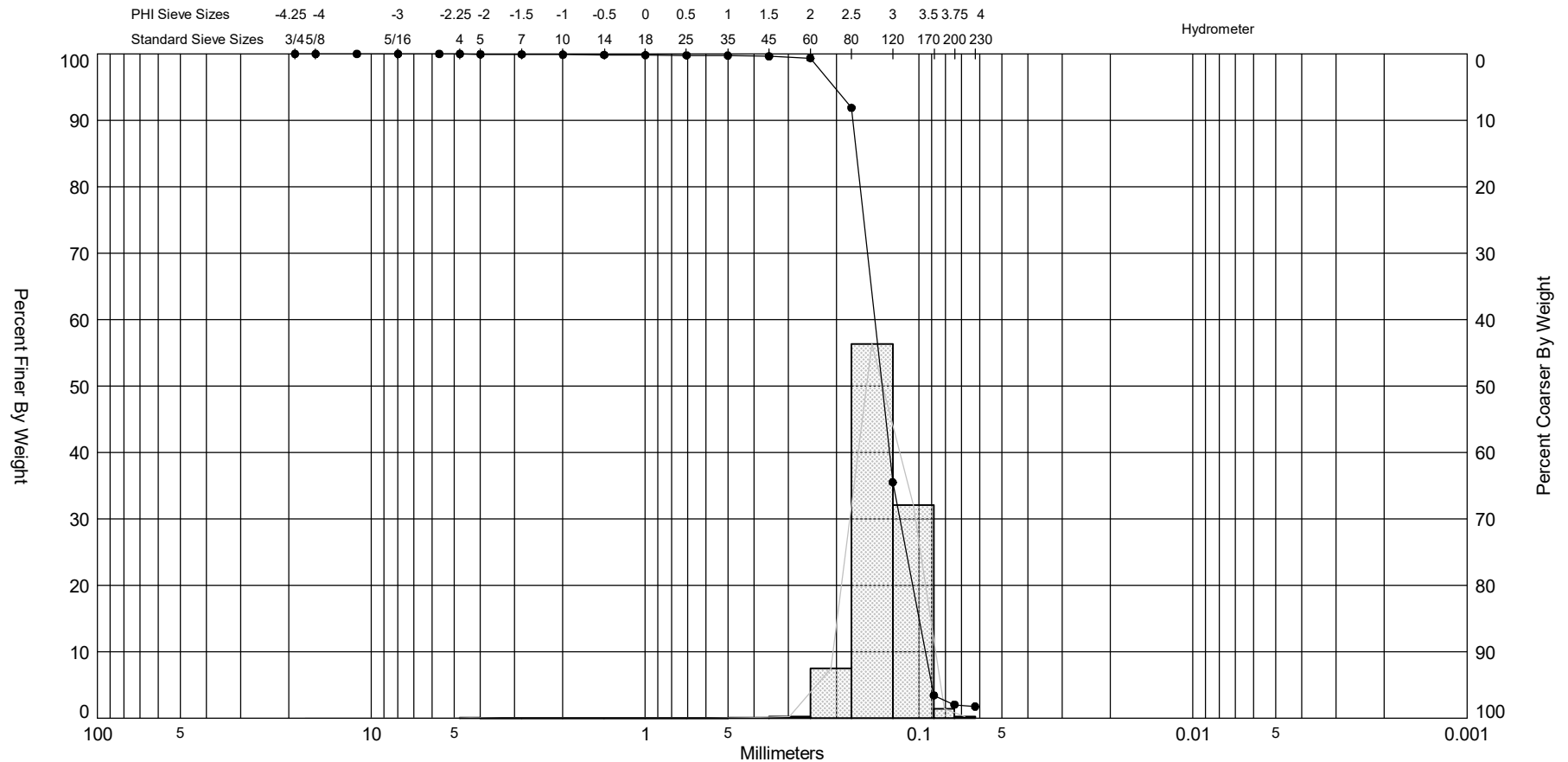
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-031 -12	—●—	-11.9	SP	#200 - 2.07 #230 - 1.80			2.78	2.73	-6.16	58.1	0.61	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-01-20
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):	2,931,070
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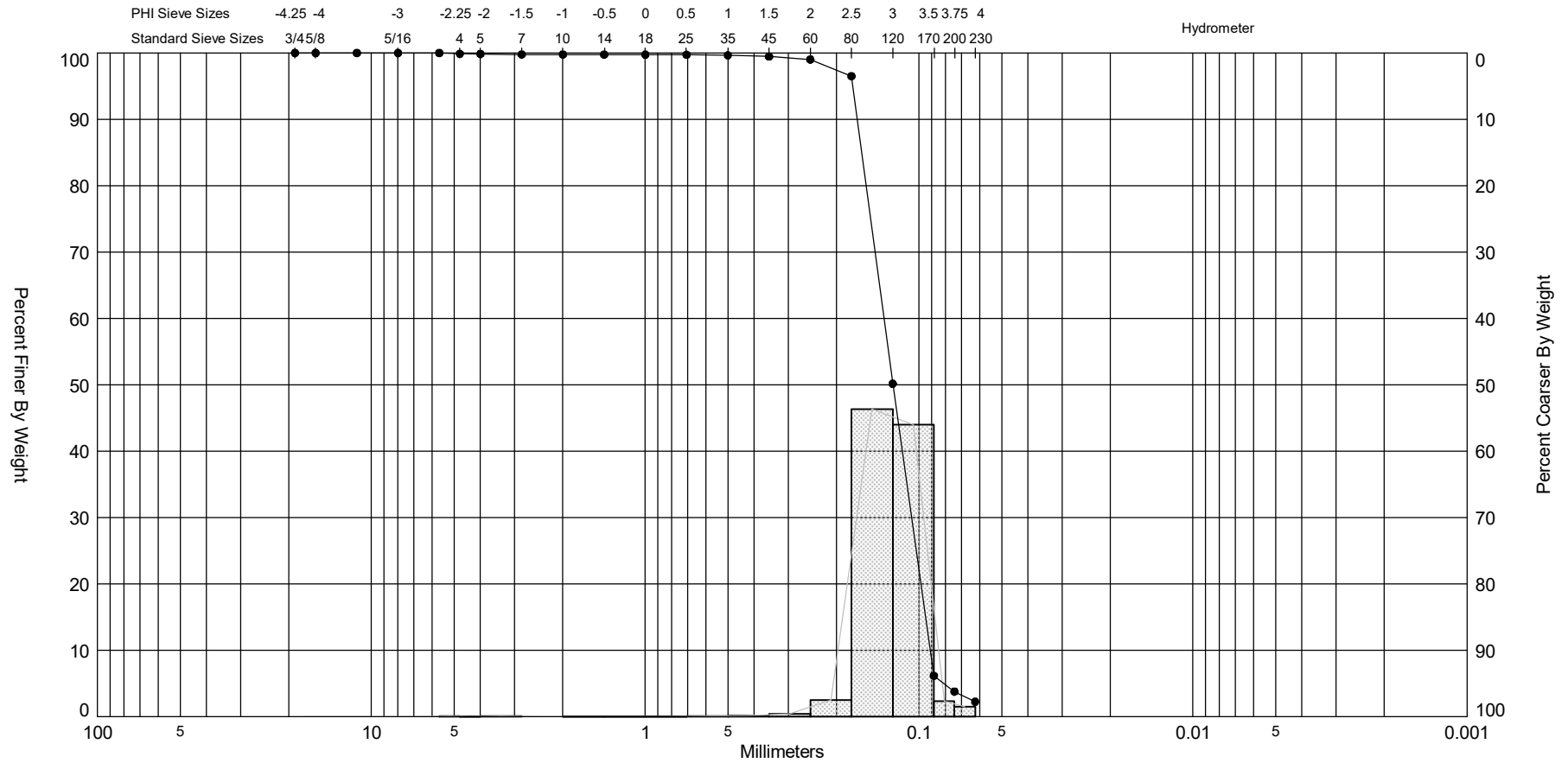
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-031 -14	—●—	-14.3	SP	#200 - 2.04 #230 - 1.76			2.87	2.88	-3.14	37.47	0.38	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-01-20
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):	2,927,556
												Northing (Y, ft):	1,004,723
												Horizontal Datum:	NAD 1983
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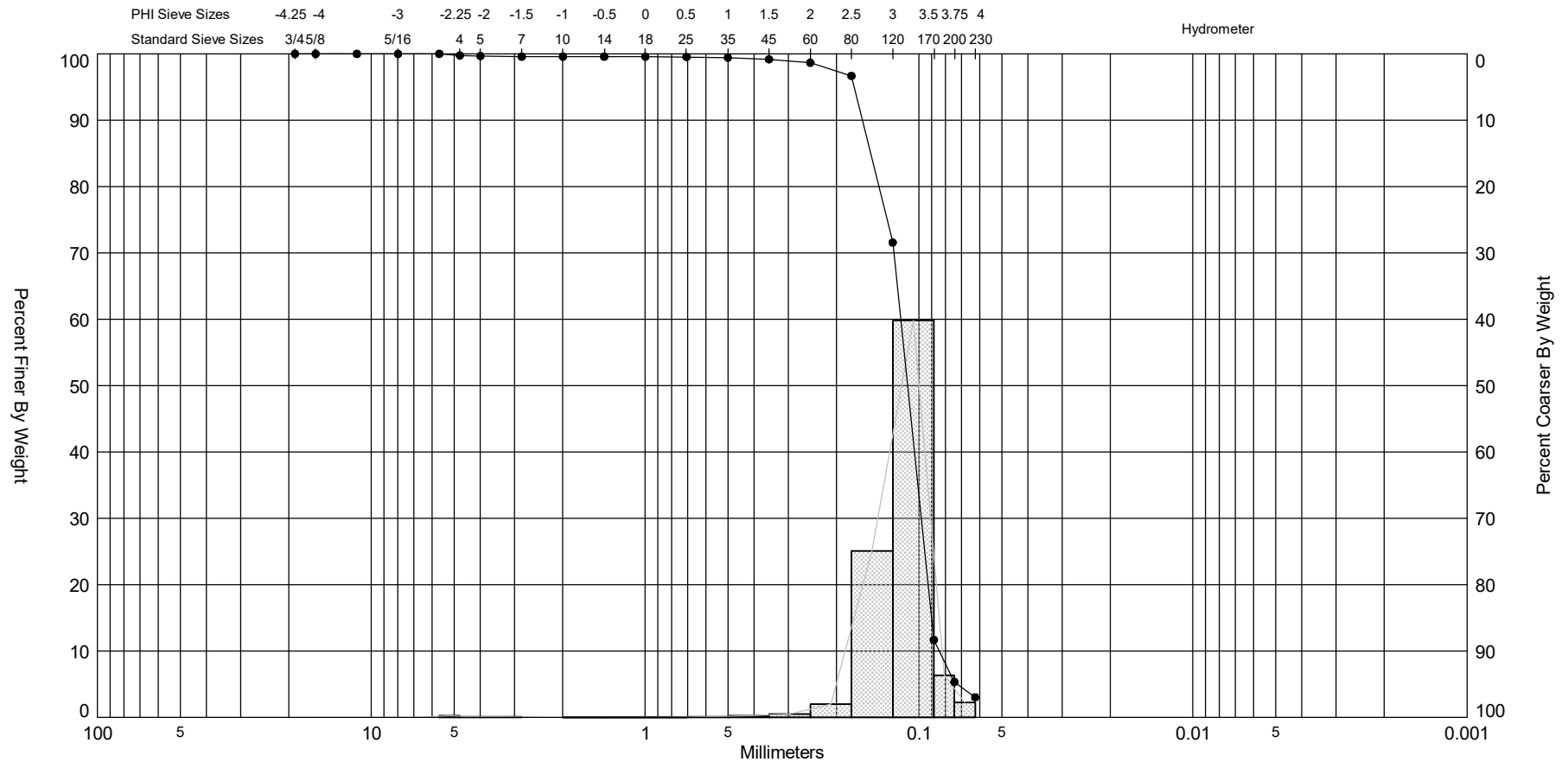
CURRITUCK COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-031 -16	—●—	-16.2	SP	#200 - 3.78 #230 - 2.24			3	2.98	-4.6	54.86	0.42	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-01-20
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):	2,927,764
												Northing (Y, ft):	1,004,764
												Horizontal Datum:	NAD 1983
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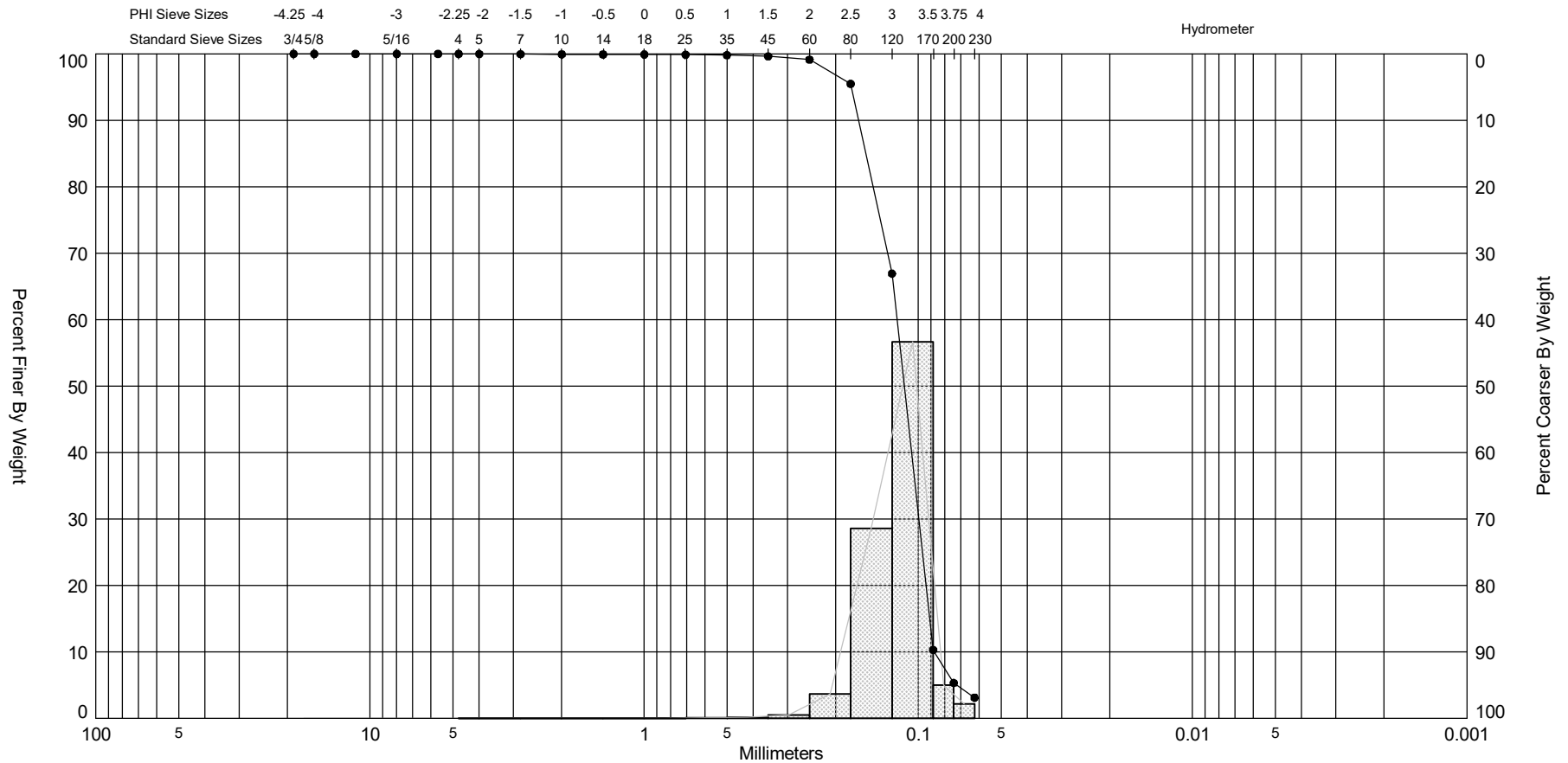
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-031 -18	—●—	-18.2	SP-SM	#200 - 5.33 #230 - 3.04			3.18	3.1	-5.84	60.52	0.49	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-01-20
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):	2,928,024
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												Horizontal Datum:	NAD 1983
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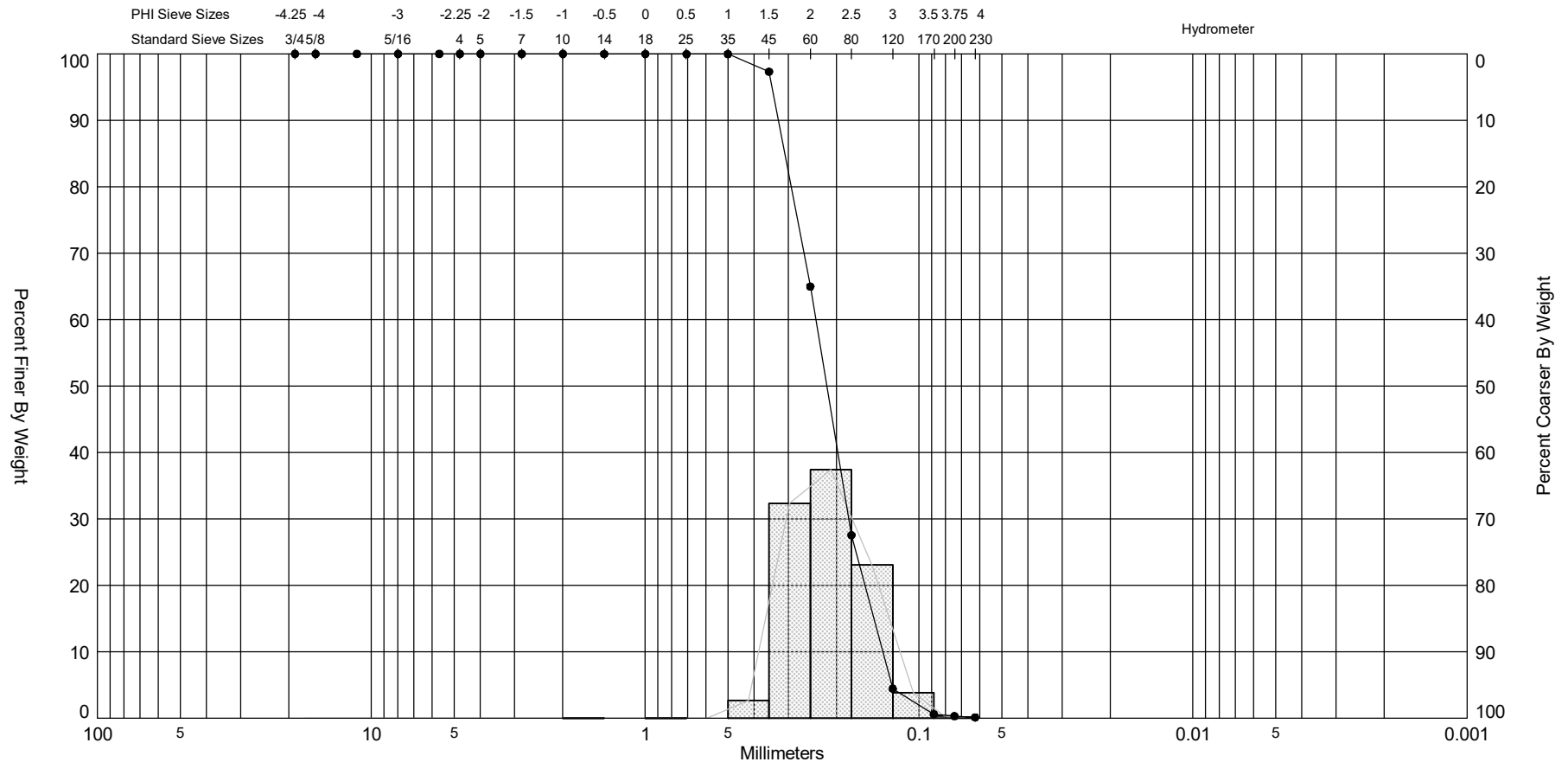
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

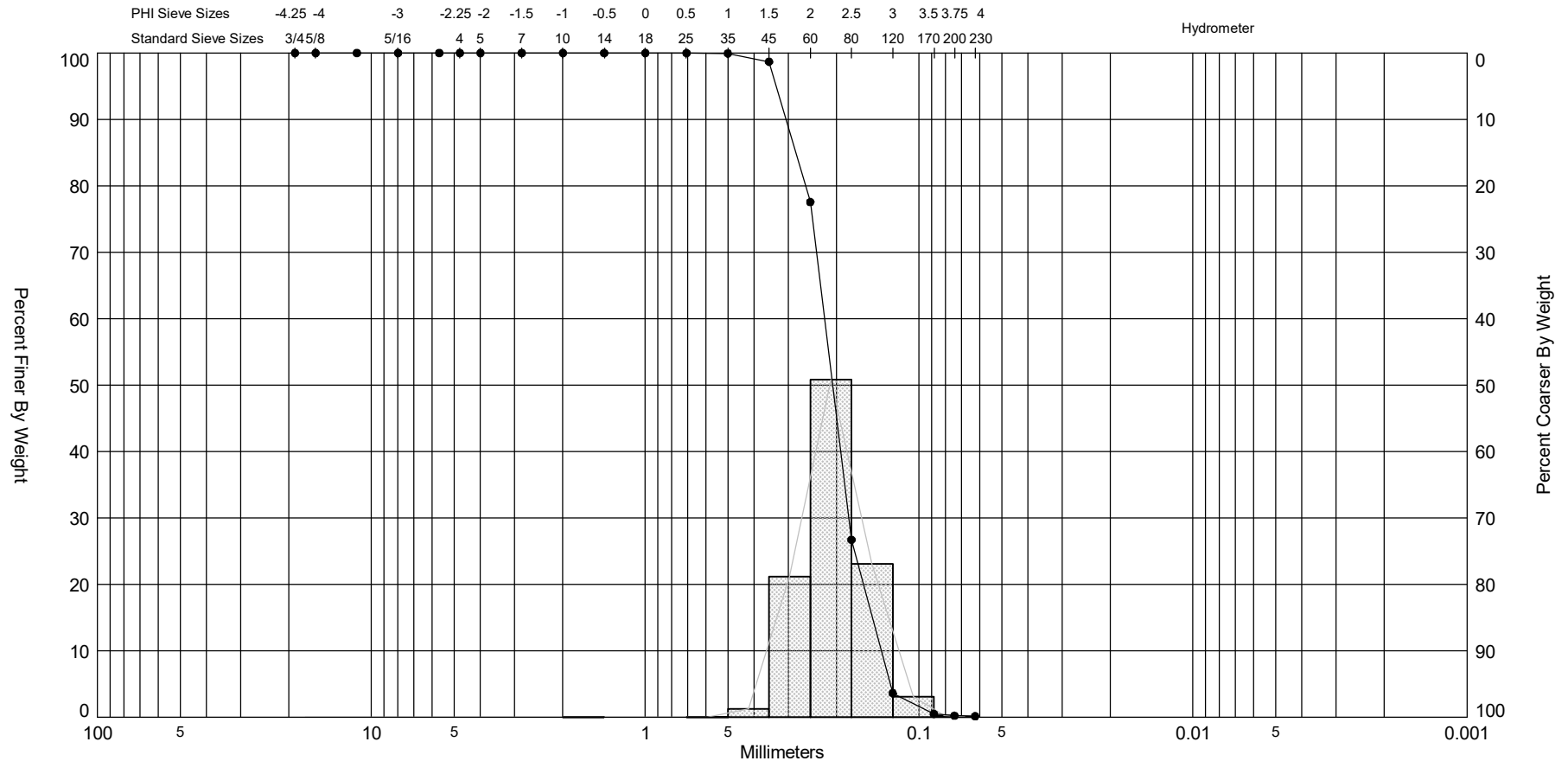
Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
C-031 -20	—●—	-20.1	SP-SM	#200 - 5.31 #230 - 3.11			3.15	3.08	-2.57	25.81	0.38	Project Name:	Currituck Beach Monitoring 2020
Comments:											Analysis Date:	06-01-20	
Depths and elevations based on measured values											Analyzed By:	SP	
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,928,266
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												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-046 Dune	—●—	14.6	SP	#200 - 0.30 #230 - 0.12			2.2	2.22	0.28	3.05	0.46	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-02-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,930,089
												Northing (Y, ft):	990,062
												Horizontal Datum:	NAD 1983
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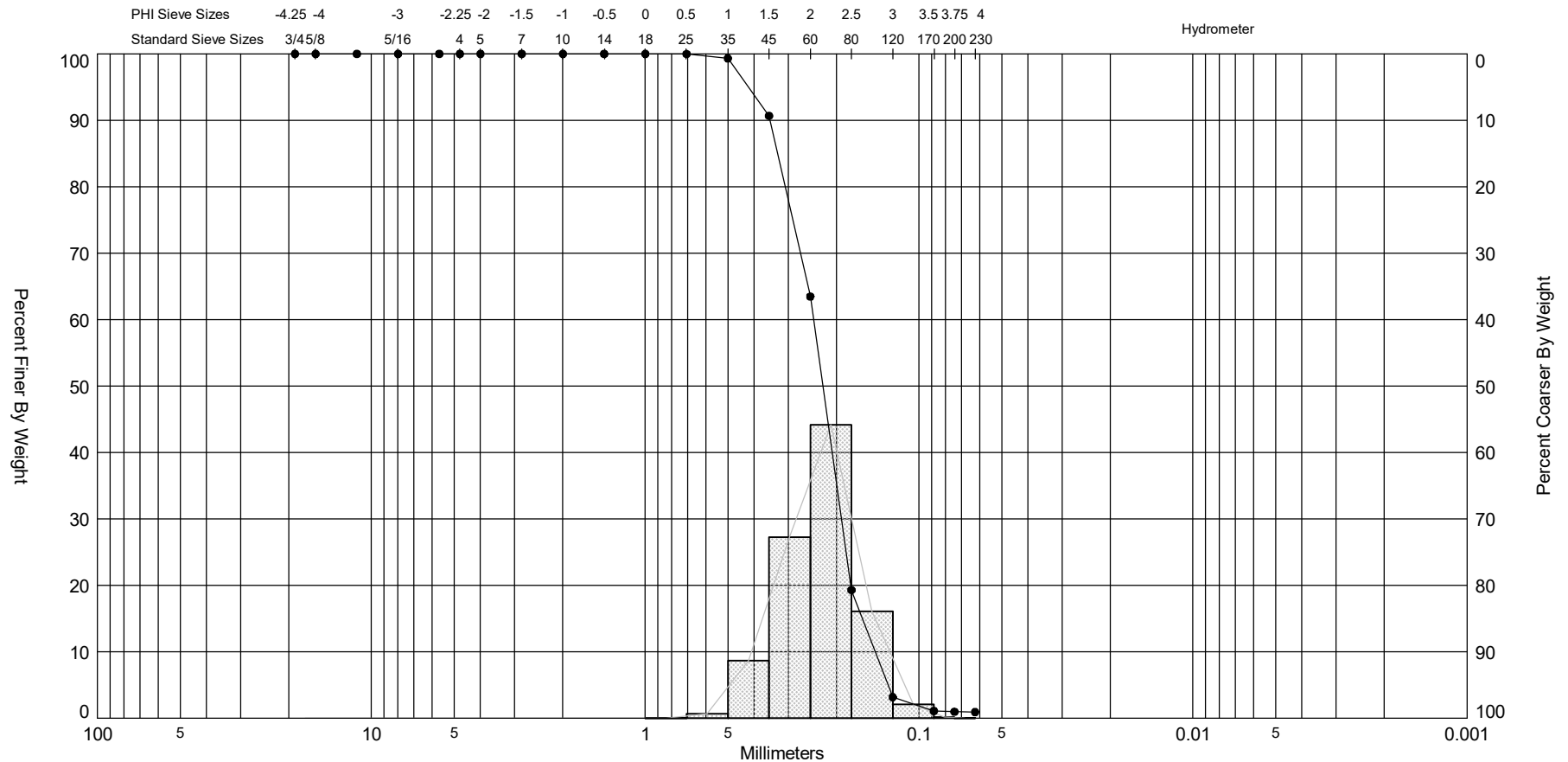


Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	


Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
C-046 Dune Toe	—●—	10.5	SP	#200 - 0.21 #230 - 0.14			2.27	2.28	0.18	3.55	0.4	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-02-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,930,101
												Northing (Y, ft):	990,065
												Horizontal Datum:	NAD 1983
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CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20

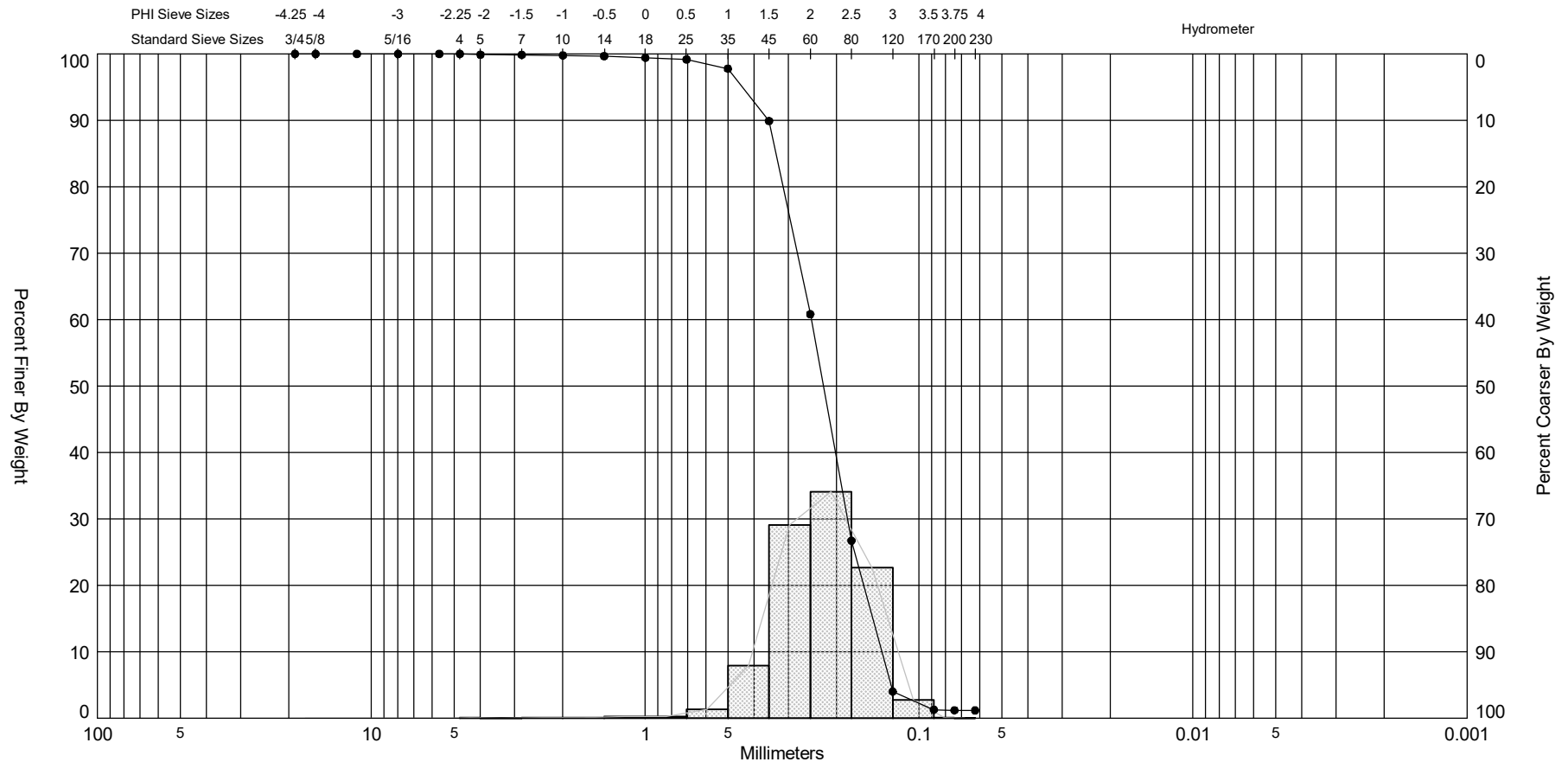
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-046 Mid-Berm	—●—	3.2	SP	#200 - 0.96 #230 - 0.92			2.15	2.12	-0.1	3.14	0.47	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-02-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,930,187
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												Horizontal Datum:	NAD 1983
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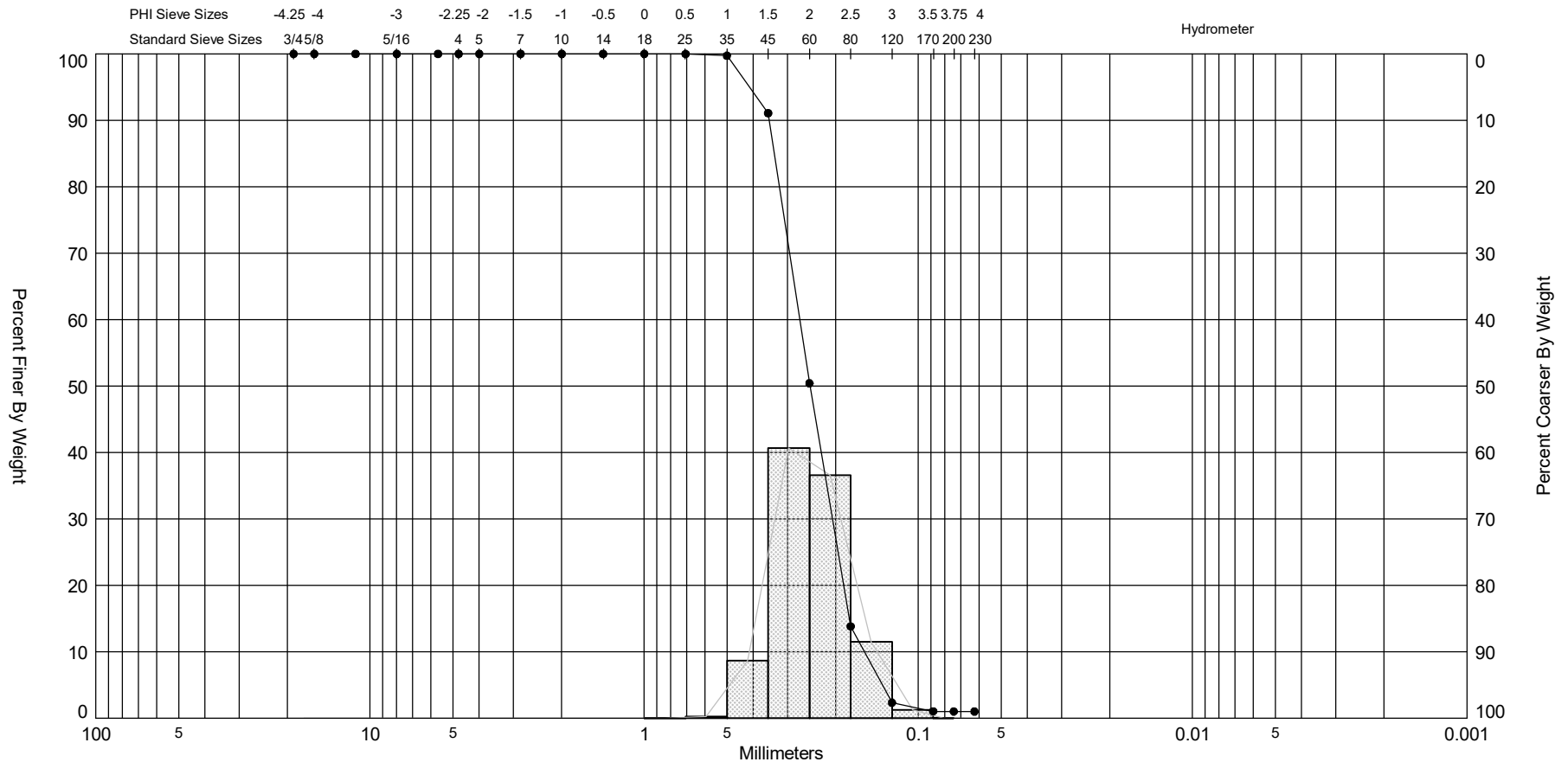
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-046 MHW	—●—	1.3	SP	#200 - 1.19 #230 - 1.16			2.16	2.12	-1.14	8.55	0.57	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-02-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,930,229
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												Horizontal Datum:	NAD 1983
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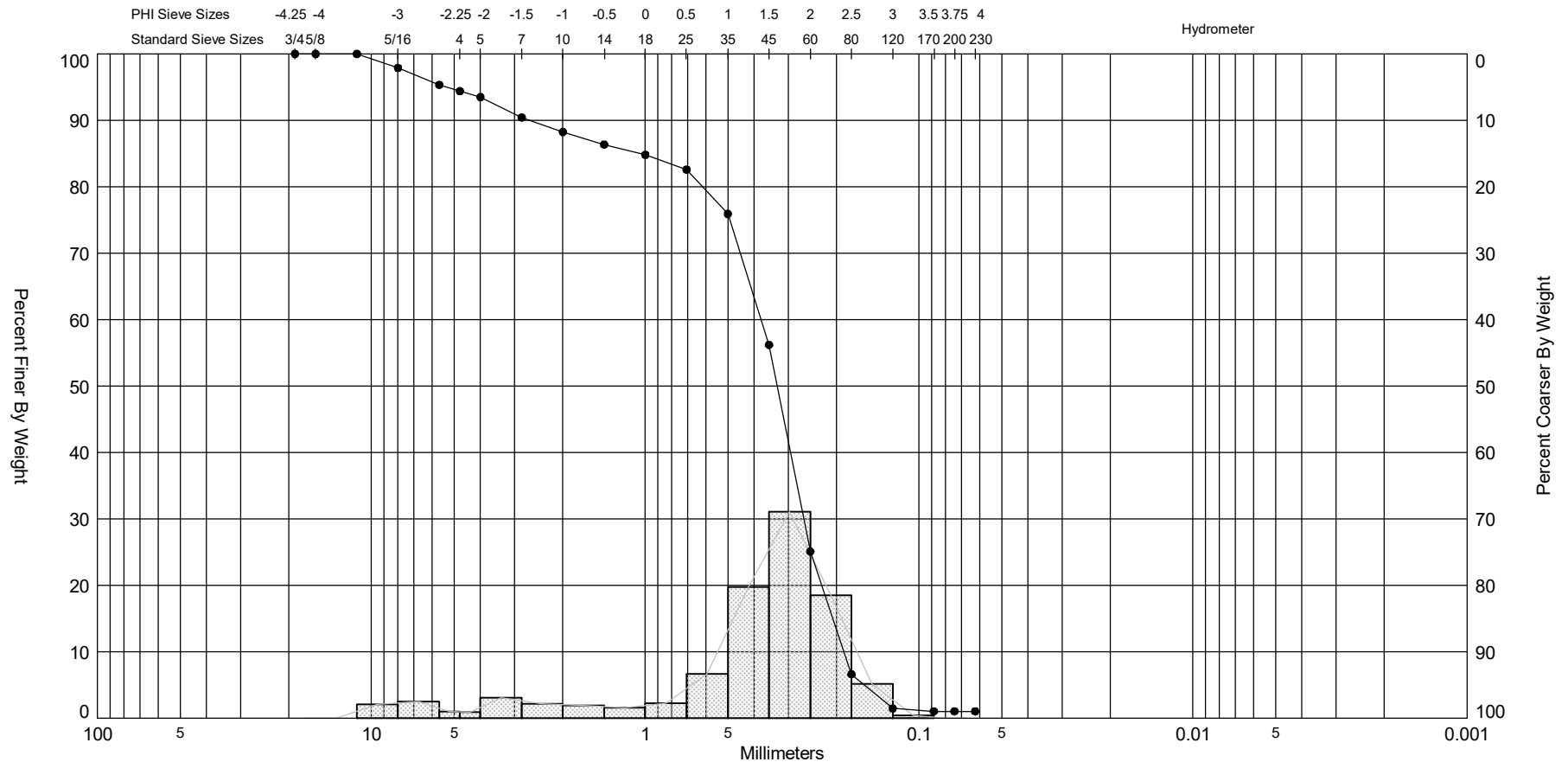
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-046 MT	—●—	-0.4	SP	#200 - 1.01 #230 - 1.01			2.01	2.02	0.23	3.01	0.43	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-02-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,930,335
												Northing (Y, ft):	990,123
												Horizontal Datum:	NAD 1983
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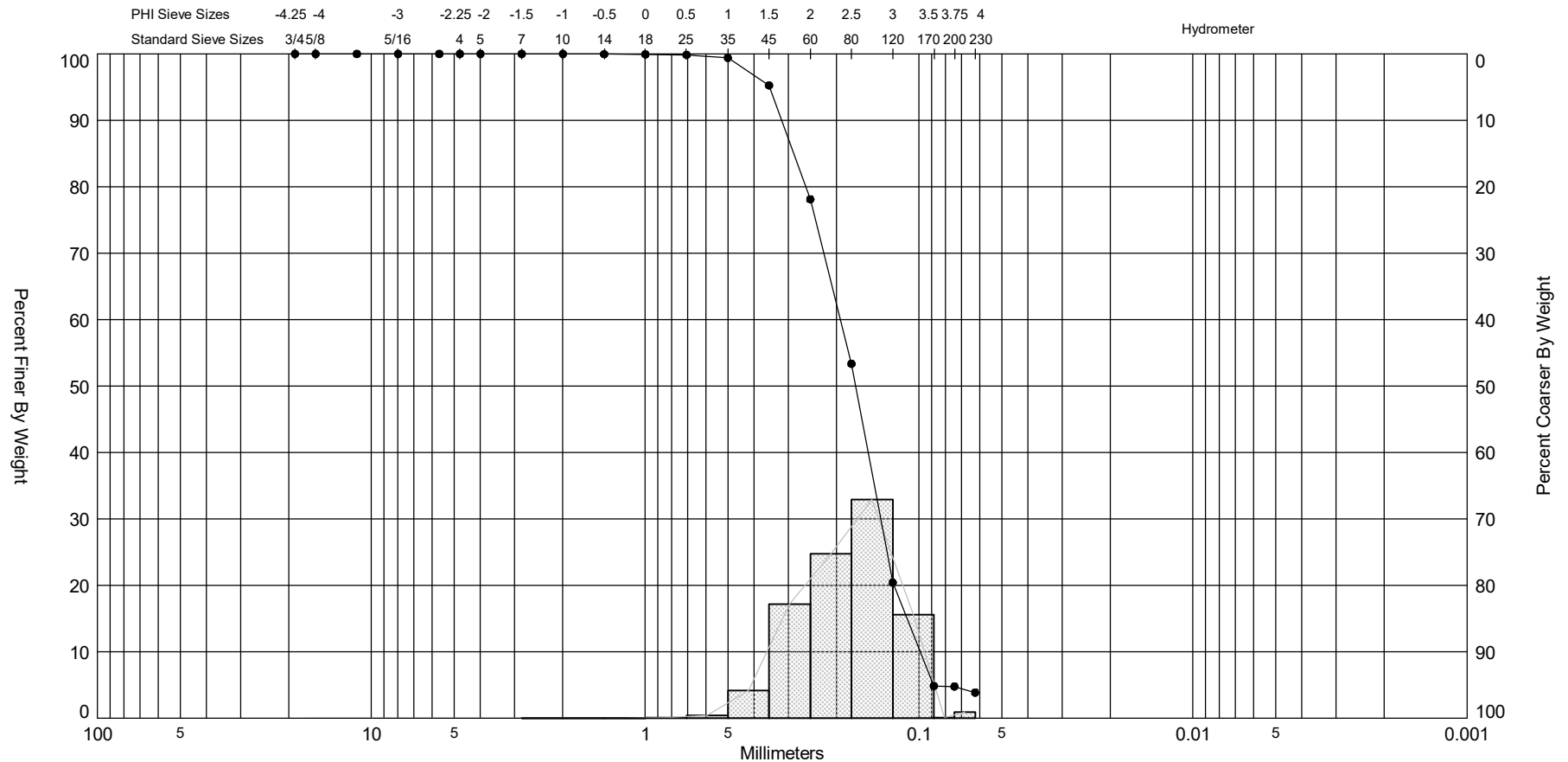
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-046 MLW	—●—	-2.4	SW	#200 - 1.04 #230 - 1.04			1.6	1.15	-1.65	4.96	1.43	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-02-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,930,406
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												Horizontal Datum:	NAD 1983
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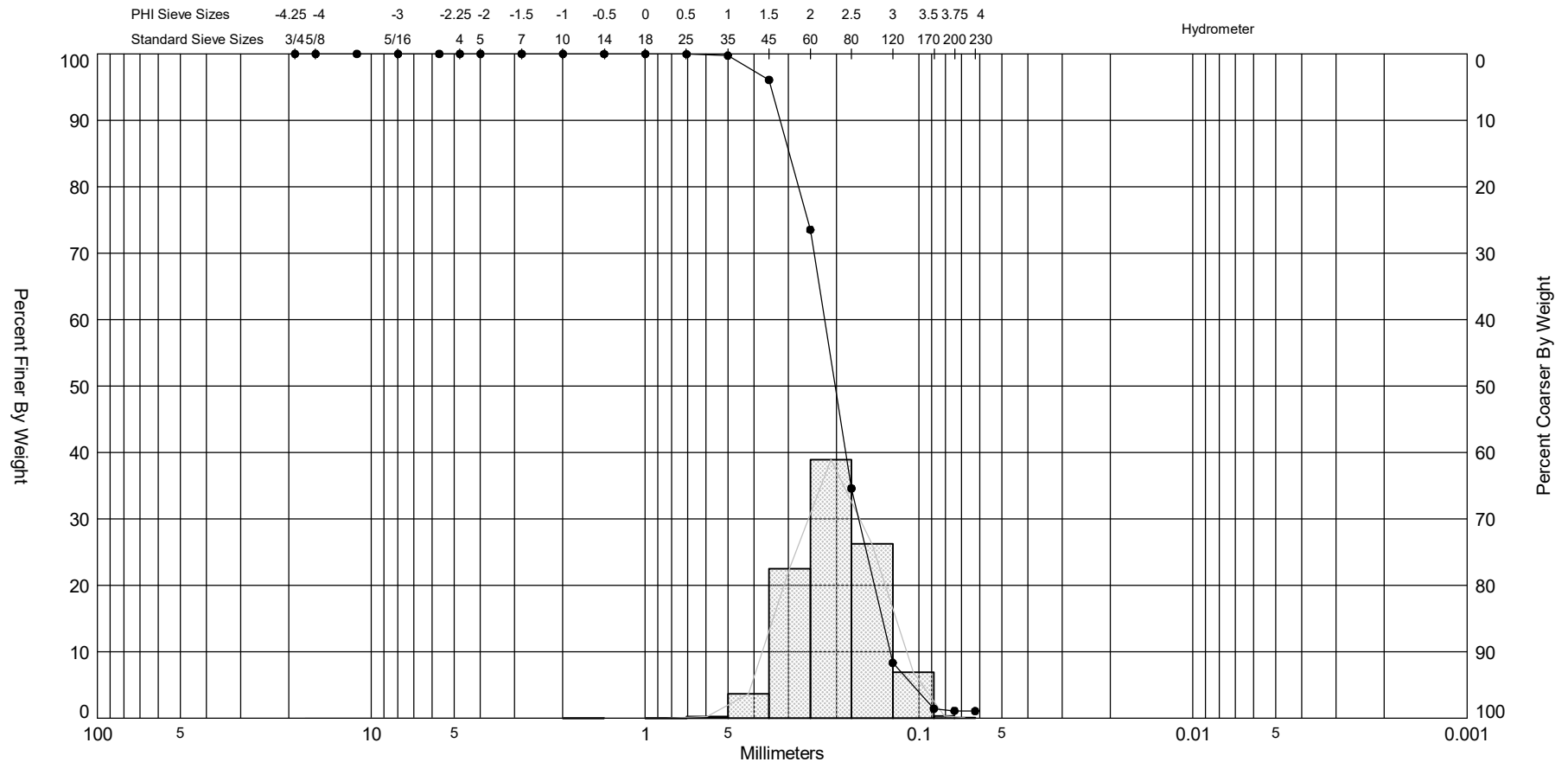
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-046 Trough	—●—	-11.2	SP	#200 - 4.78 #230 - 3.86			2.55	2.46	-0.39	3.24	0.58	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-02-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,930,602
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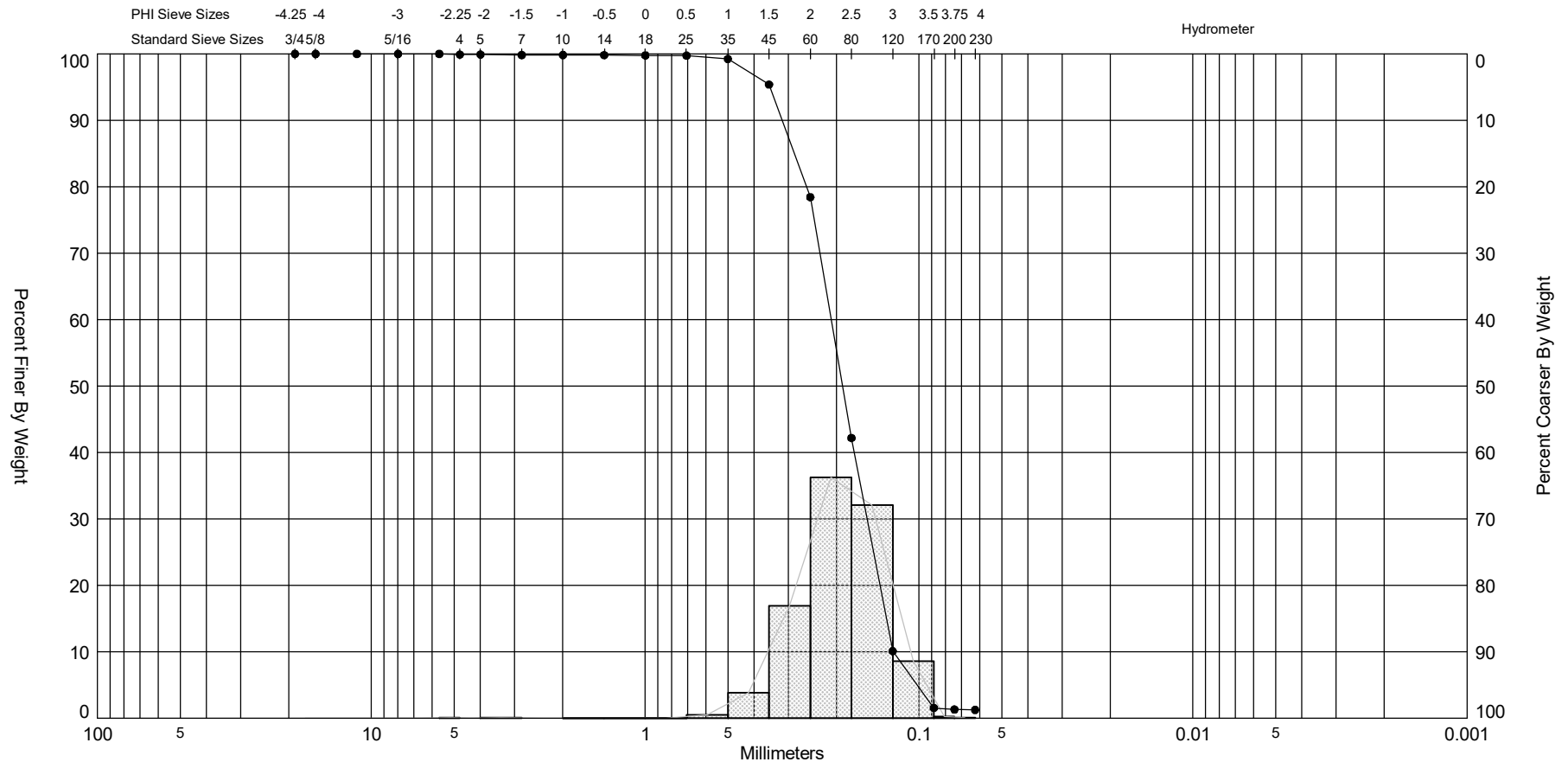
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-046 Bar	—●—	-8.7	SP	#200 - 1.11 #230 - 1.06			2.3	2.3	-0.05	3.1	0.49	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-02-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,930,874
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												Vertical Datum:	NAVD88

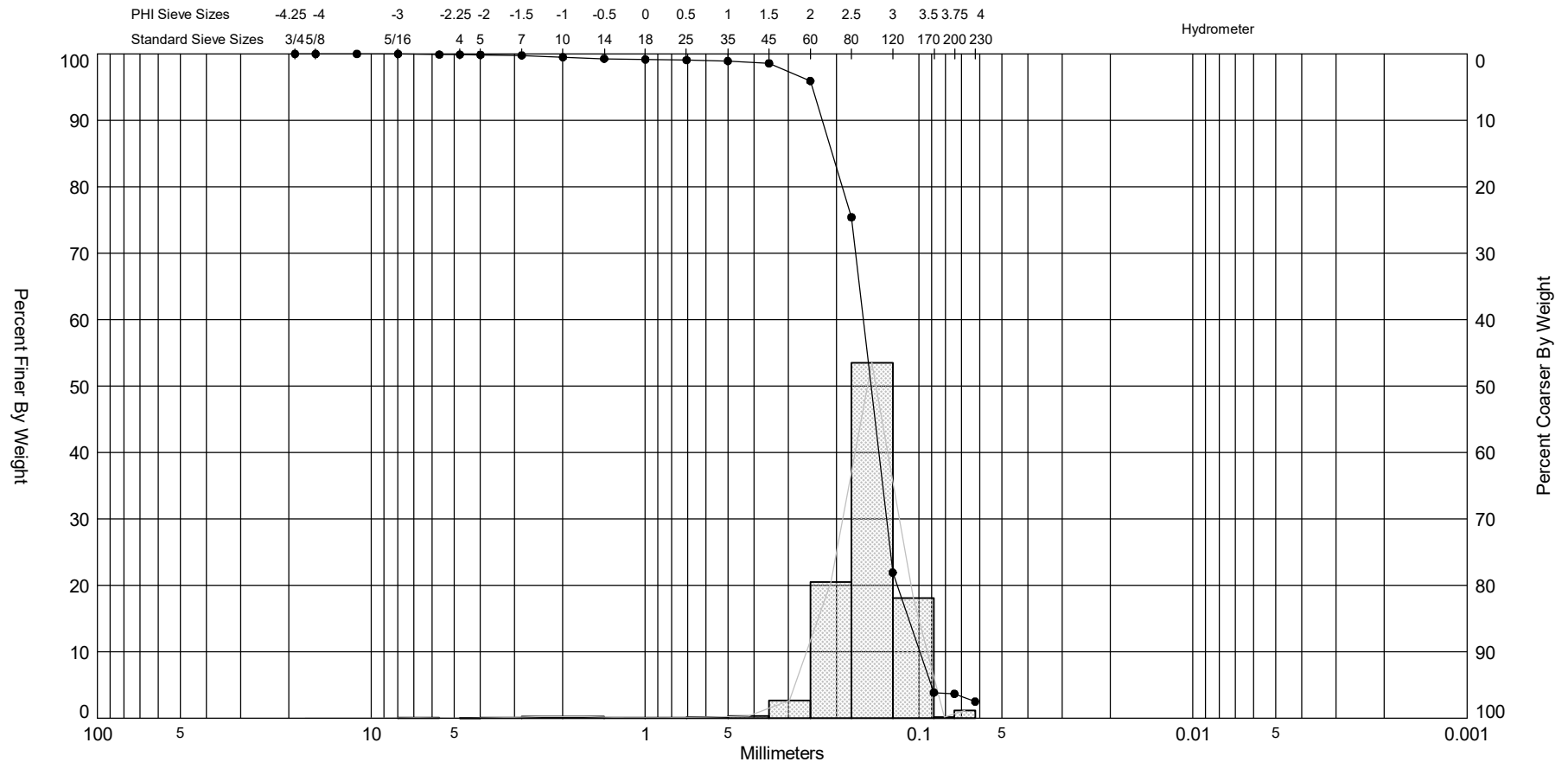
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-046 -12	—●—	-11.7	SP	#200 - 1.30 #230 - 1.24			2.39	2.36	-1.25	10.82	0.54	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-02-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,931,064
												Northing (Y, ft):	990,334
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												Vertical Datum:	NAVD88

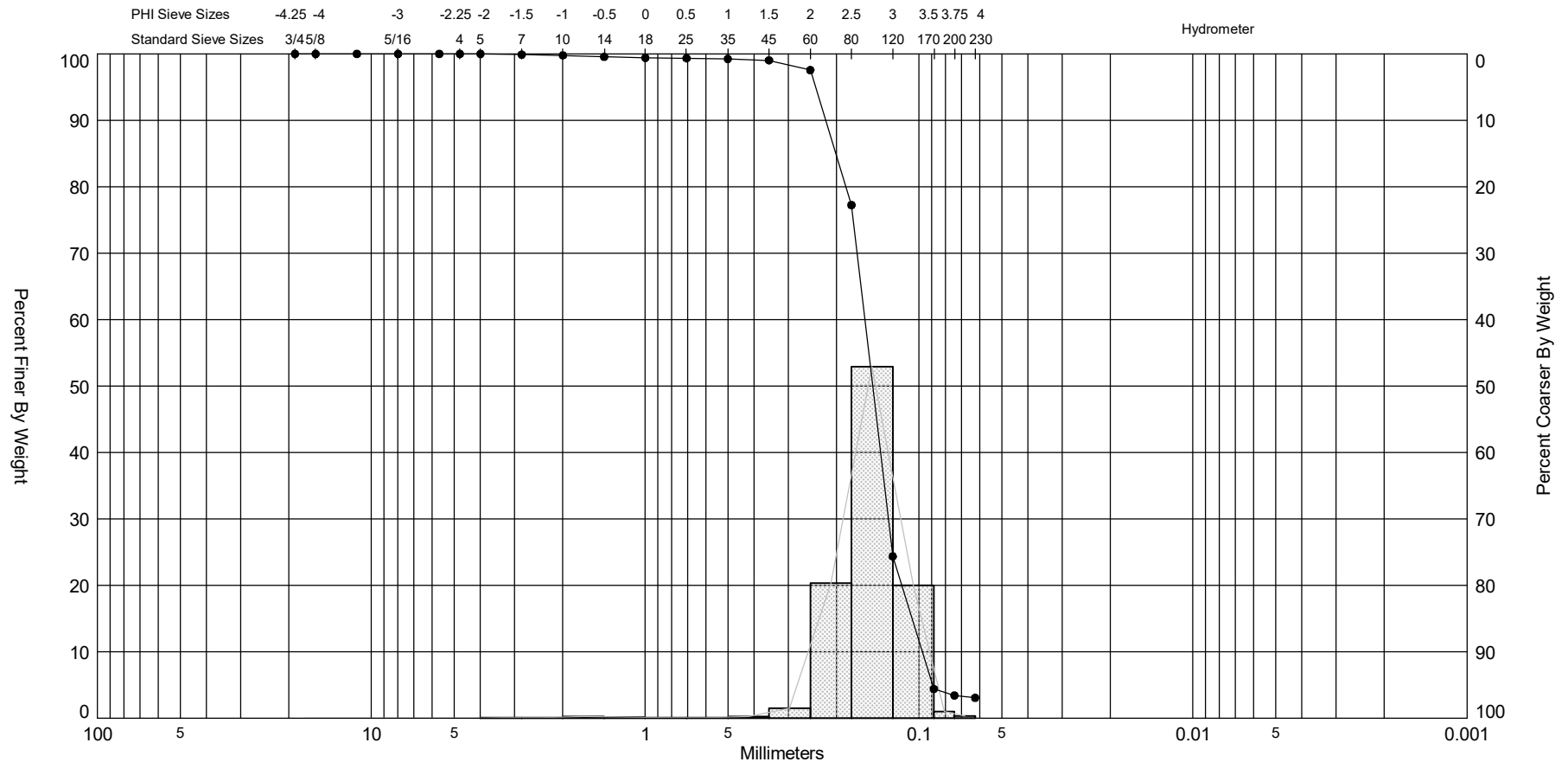
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-046 -14	—●—	-13.8	SP	#200 - 3.66 #230 - 2.51			2.74	2.68	-3.63	29.6	0.55	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-02-20
Depths and elevations based on measured values												Analyzed By:	SF
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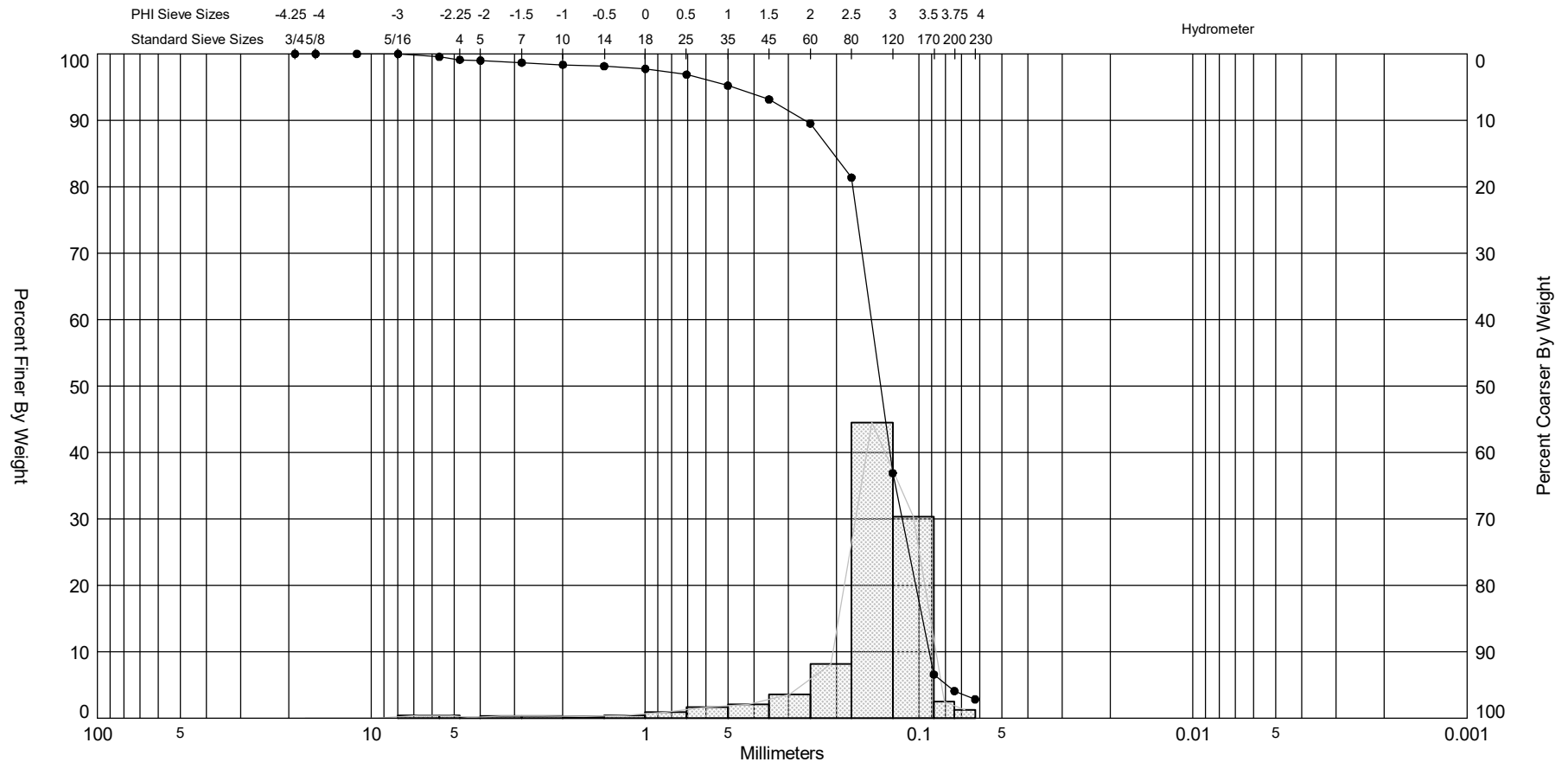
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20



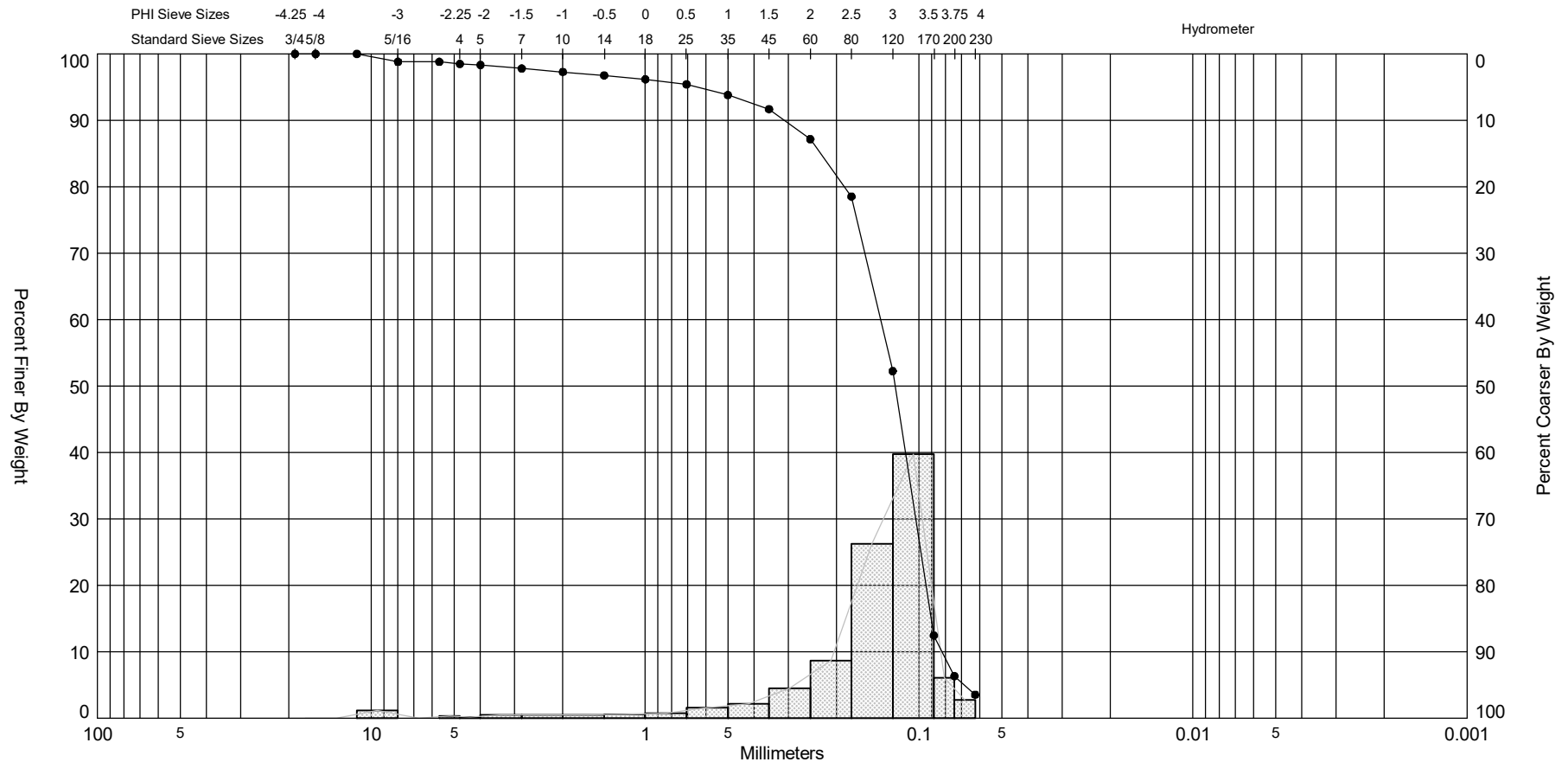
Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
C-046 -16	—●—	-16.1	SP	#200 - 3.41 #230 - 3.06			2.76	2.72	-2.99	25.06	0.48	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-02-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,931,207
												Northing (Y, ft):	990,362
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CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20



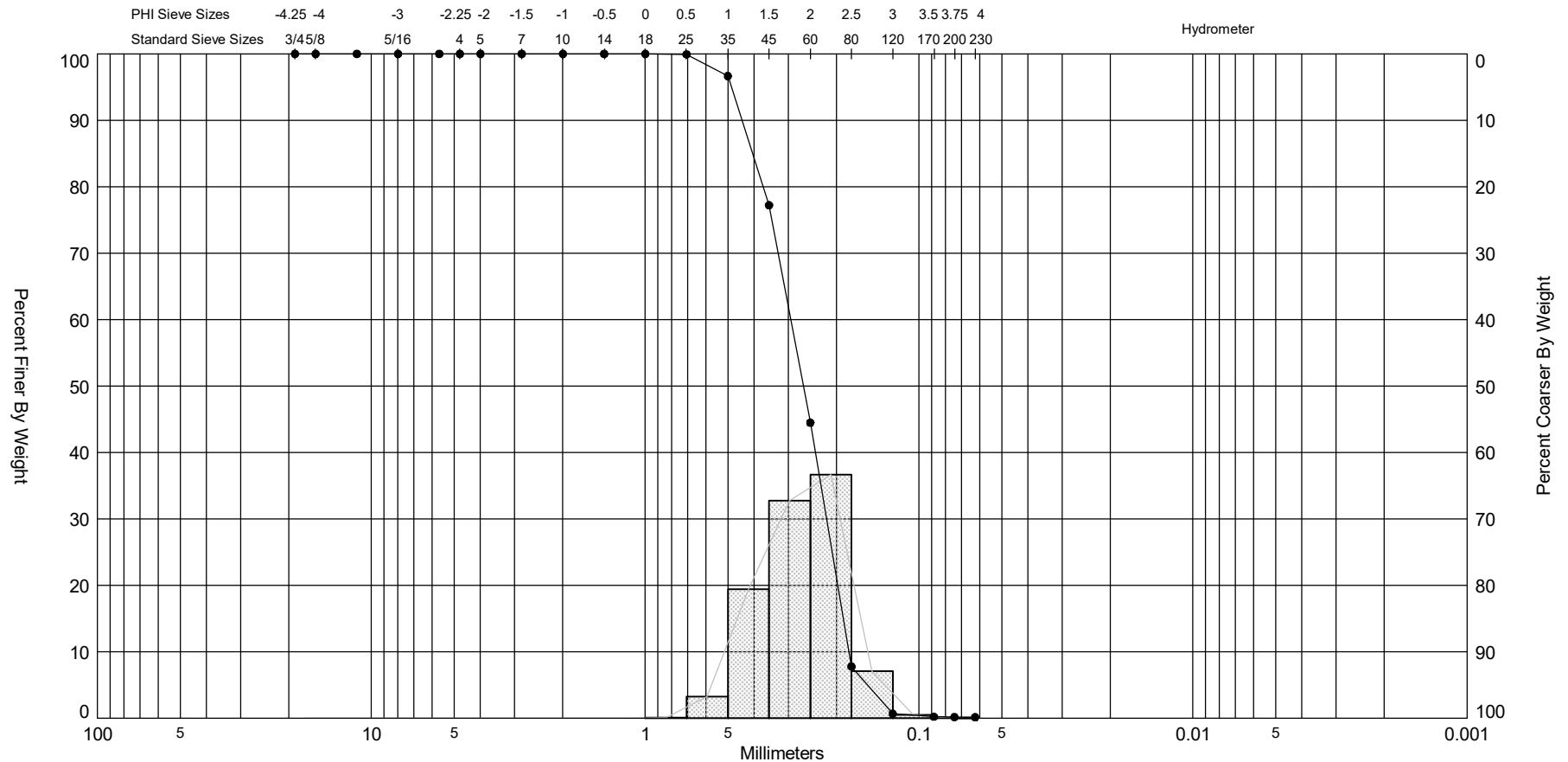
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-046 -20	—●—	-20.1	SW-SM	#200 - 6.33 #230 - 3.54			3.03	2.68	-3.04	13.92	1.14	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-02-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,931,958
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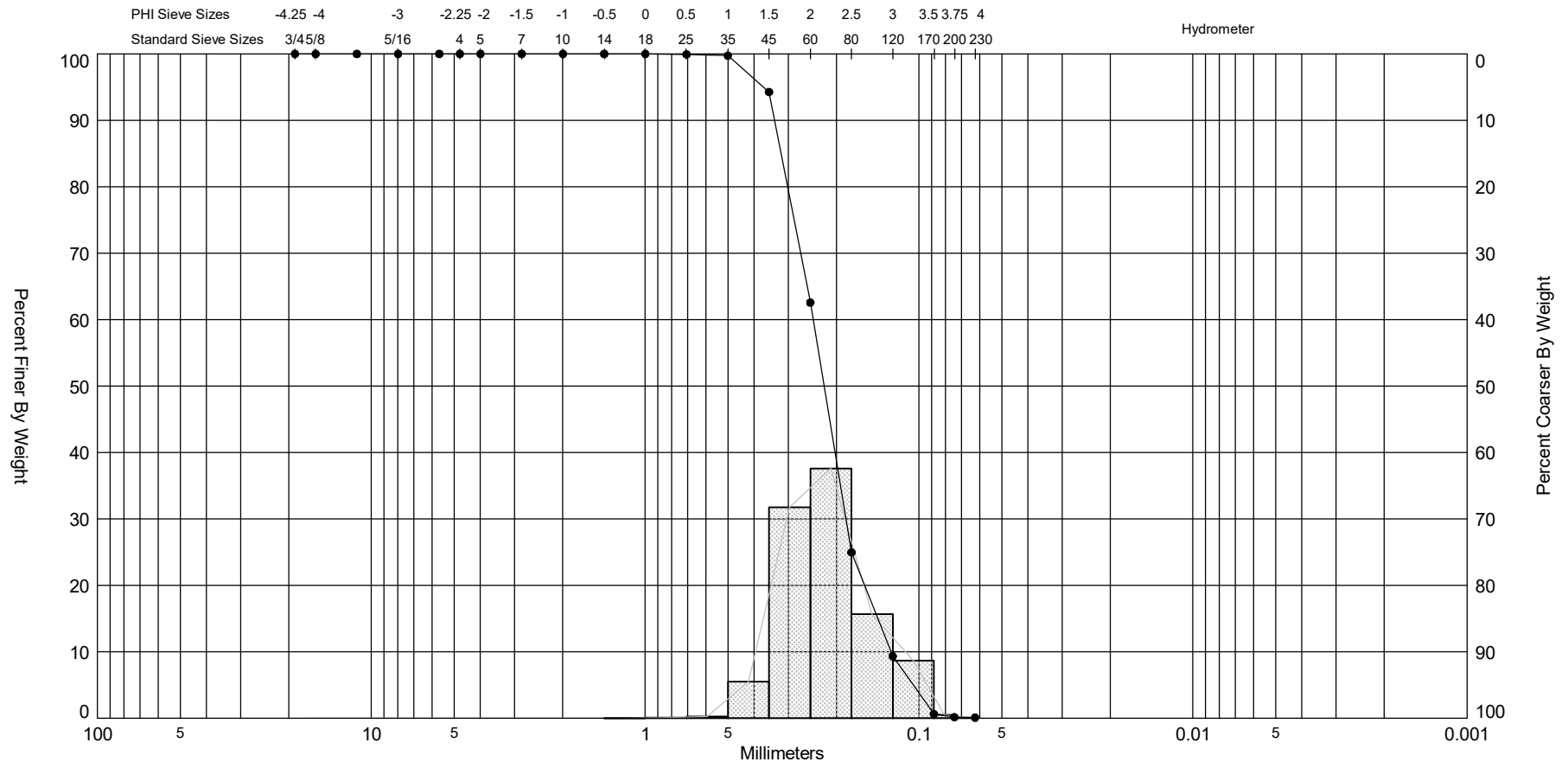
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-061 Dune	—●—	16.5	SP	#200 - 0.16 #230 - 0.14			1.92	1.88	-0.17	2.75	0.49	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-02-20
Depths and elevations based on measured values												Analyzed By:	SF
						APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102						Easting (X, ft):	2,933,731
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												Horizontal Datum:	NAD 1983
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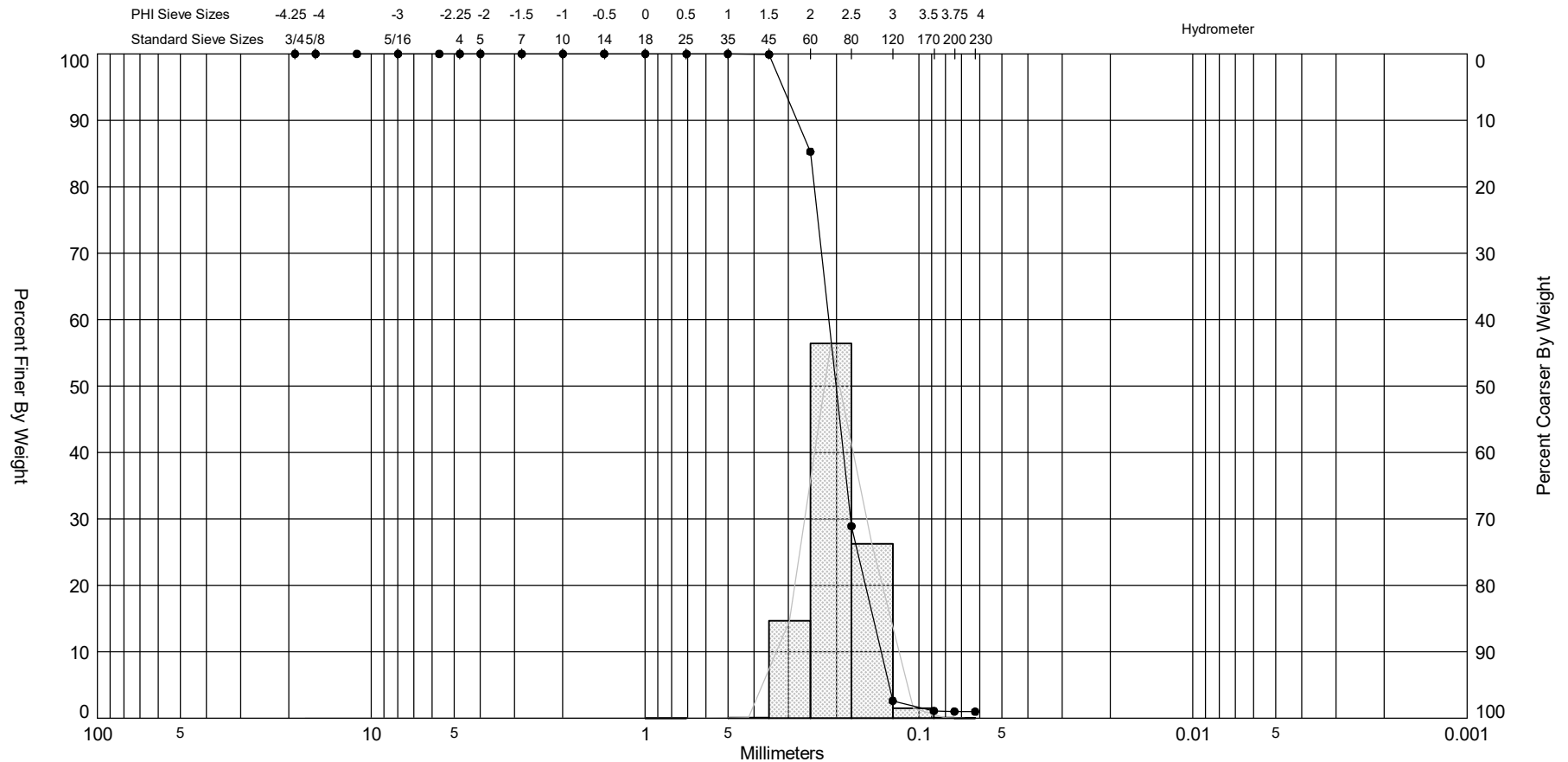
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-061 Dune Toe	—●—	7.9	SP	#200 - 0.15 #230 - 0.08			2.17	2.21	0.36	2.9	0.53	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-03-20
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):	2,933,747
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												Horizontal Datum:	NAD 1983
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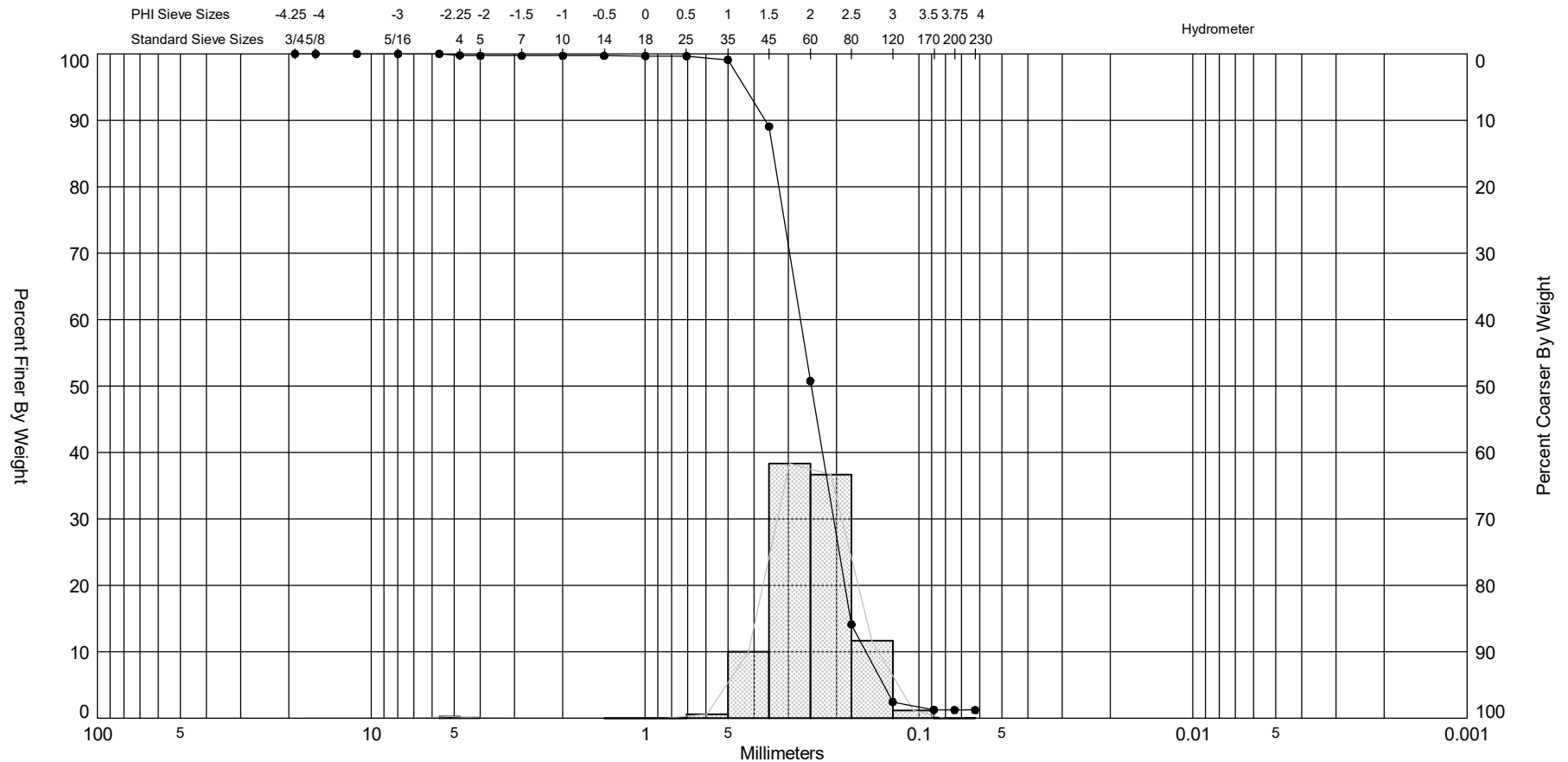
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-061 Mid-Berm	—●—	4.0	SP	#200 - 1.00 #230 - 0.97			2.31	2.33	0.14	3.2	0.34	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-03-20
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):	2,933,795
												Northing (Y, ft):	975,547
												Horizontal Datum:	NAD 1983
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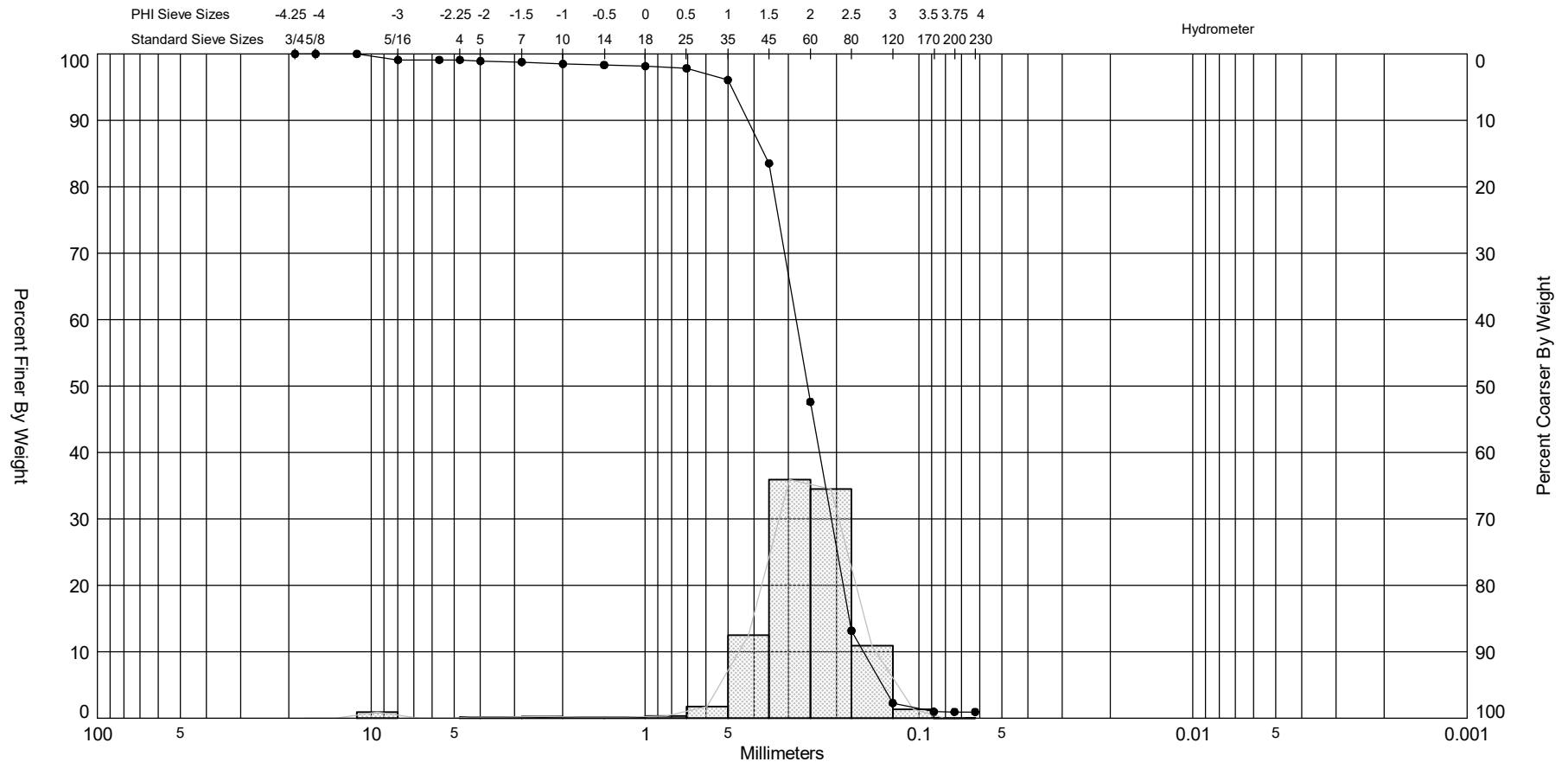
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-061 MHW	—●—	1.2	SP	#200 - 1.22 #230 - 1.21			2.01	2	-1.7	17.43	0.51	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-03-20
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):	2,933,835
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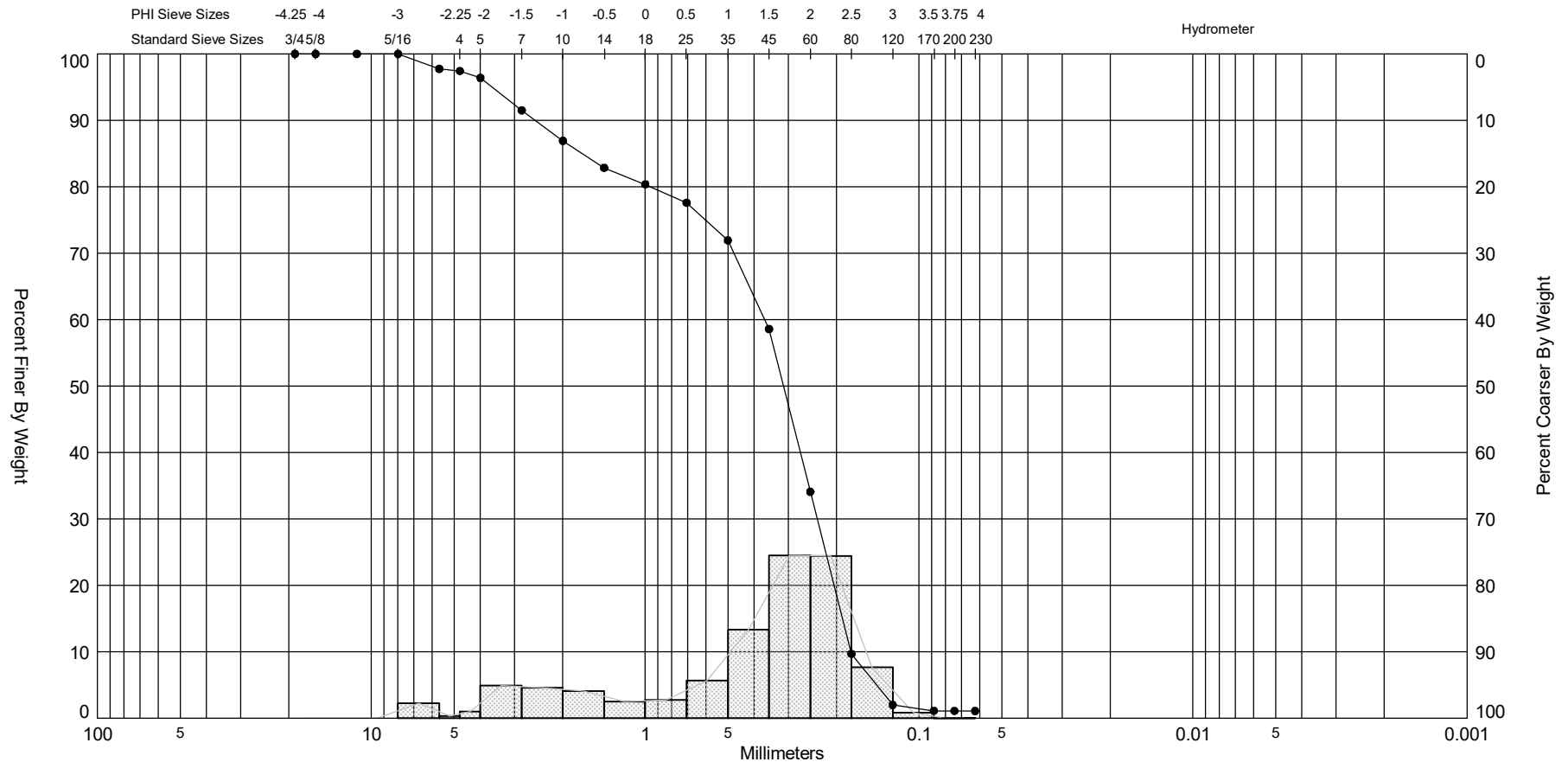
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-061 MT	—●—	-0.4	SP	#200 - 0.95 #230 - 0.94			1.97	1.89	-3.45	22.95	0.76	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-03-20
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):	2,933,898
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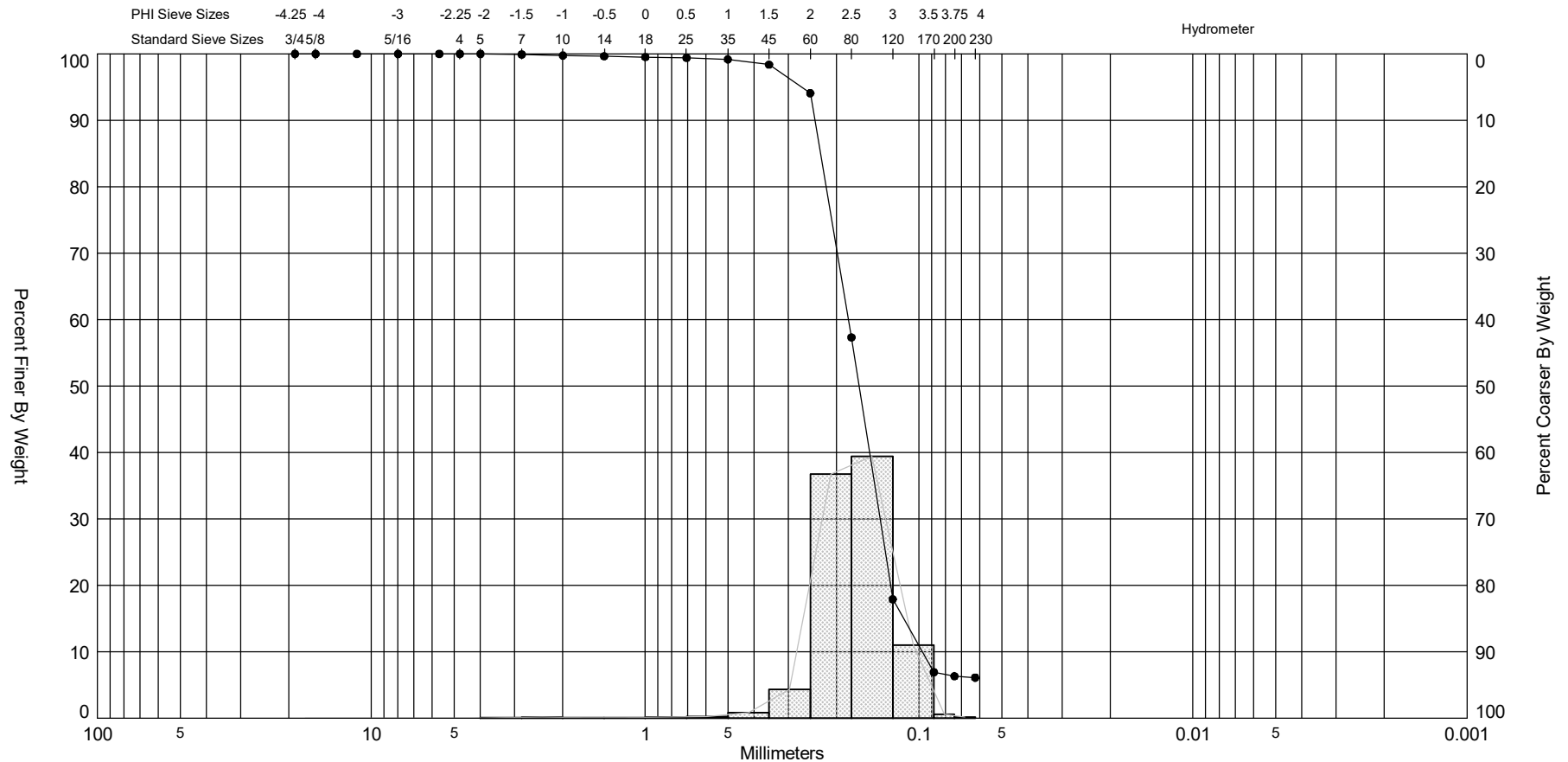
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-061 MLW	—●—	-2.2	SW	#200 - 1.10 #230 - 1.09			1.68	1.18	-1.19	3.39	1.43	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-03-20
Depths and elevations based on measured values												Analyzed By:	SP
												Easting (X, ft):	2,934,005
												Northing (Y, ft):	975,592
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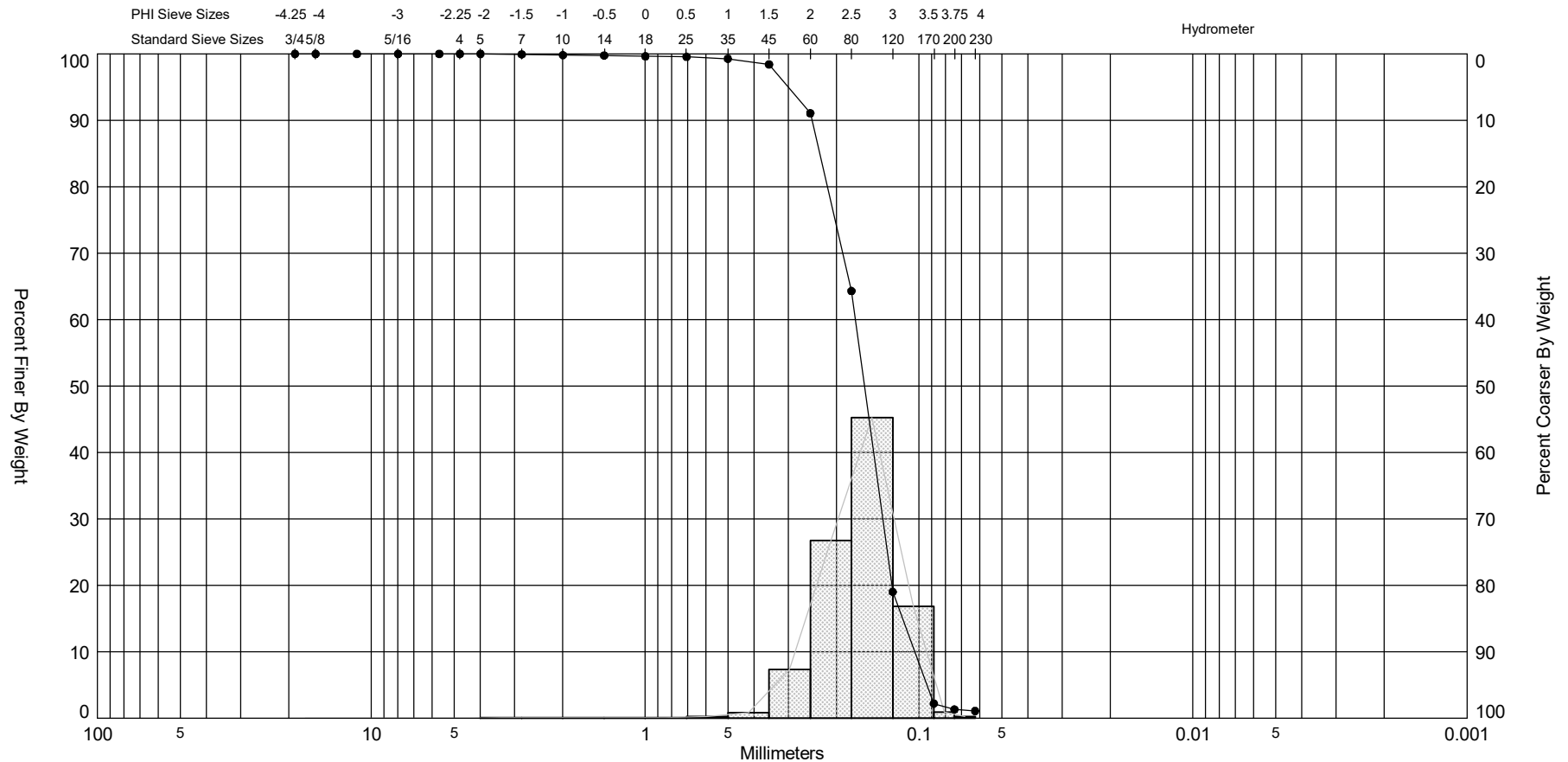
CURRITUCK COUNTY_BEACH_2020.GPJ 7/17/20




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	
C-061 Trough	—●—	-12.9	SP-SM	#200 - 6.31 #230 - 6.11			2.59	2.54	-2.05	16.97	0.49	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-25-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,934,441
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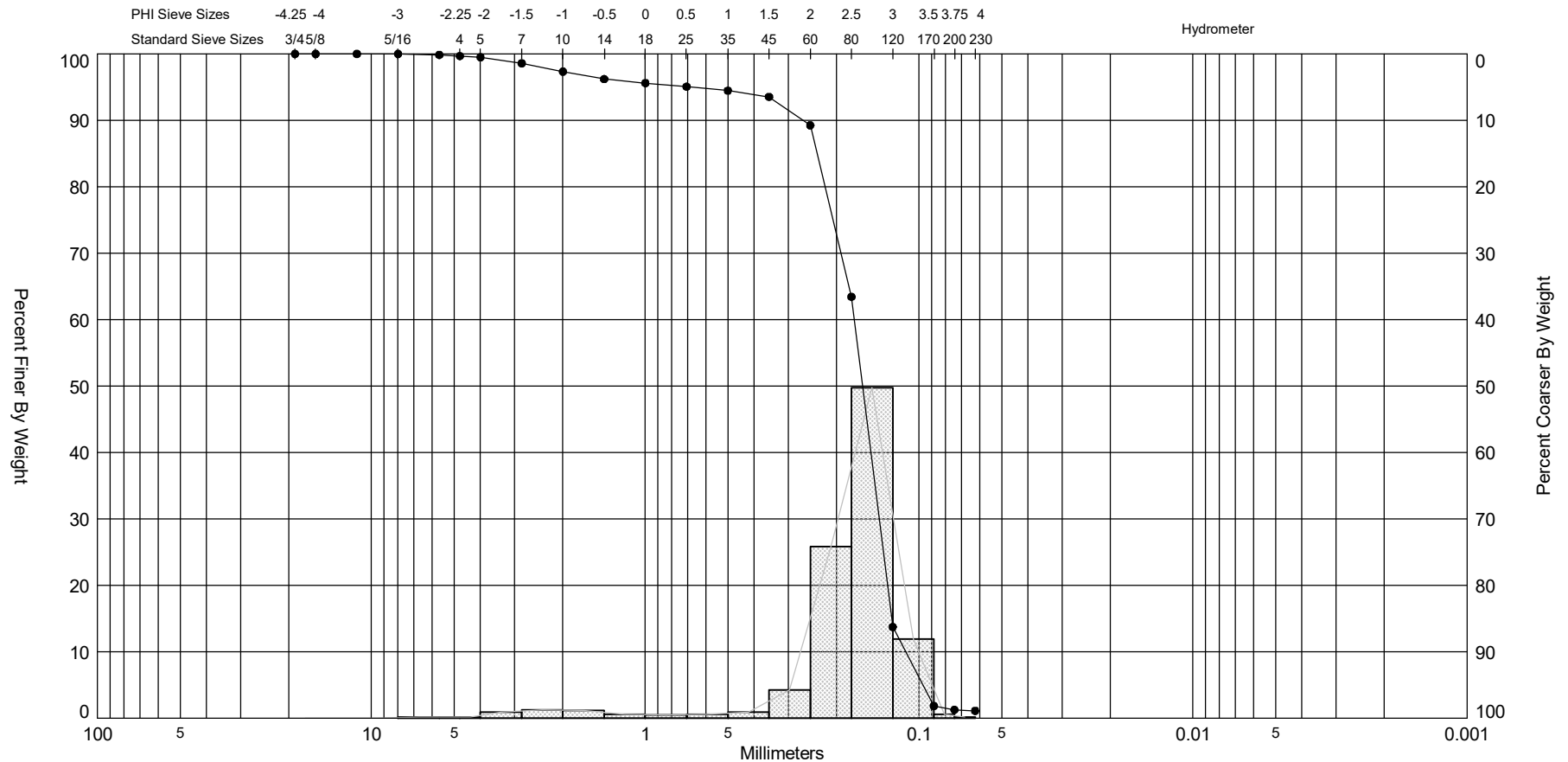
CURRITUCK COUNTY_BEACH_2020.GPJ 7/17/20




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	
C-061 Bar	—●—	-9.5	SP	#200 - 1.31 #230 - 1.08			2.66	2.6	-1.66	12.45	0.51	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-25-20
Depths and elevations based on measured values												Analyzed By:	SF
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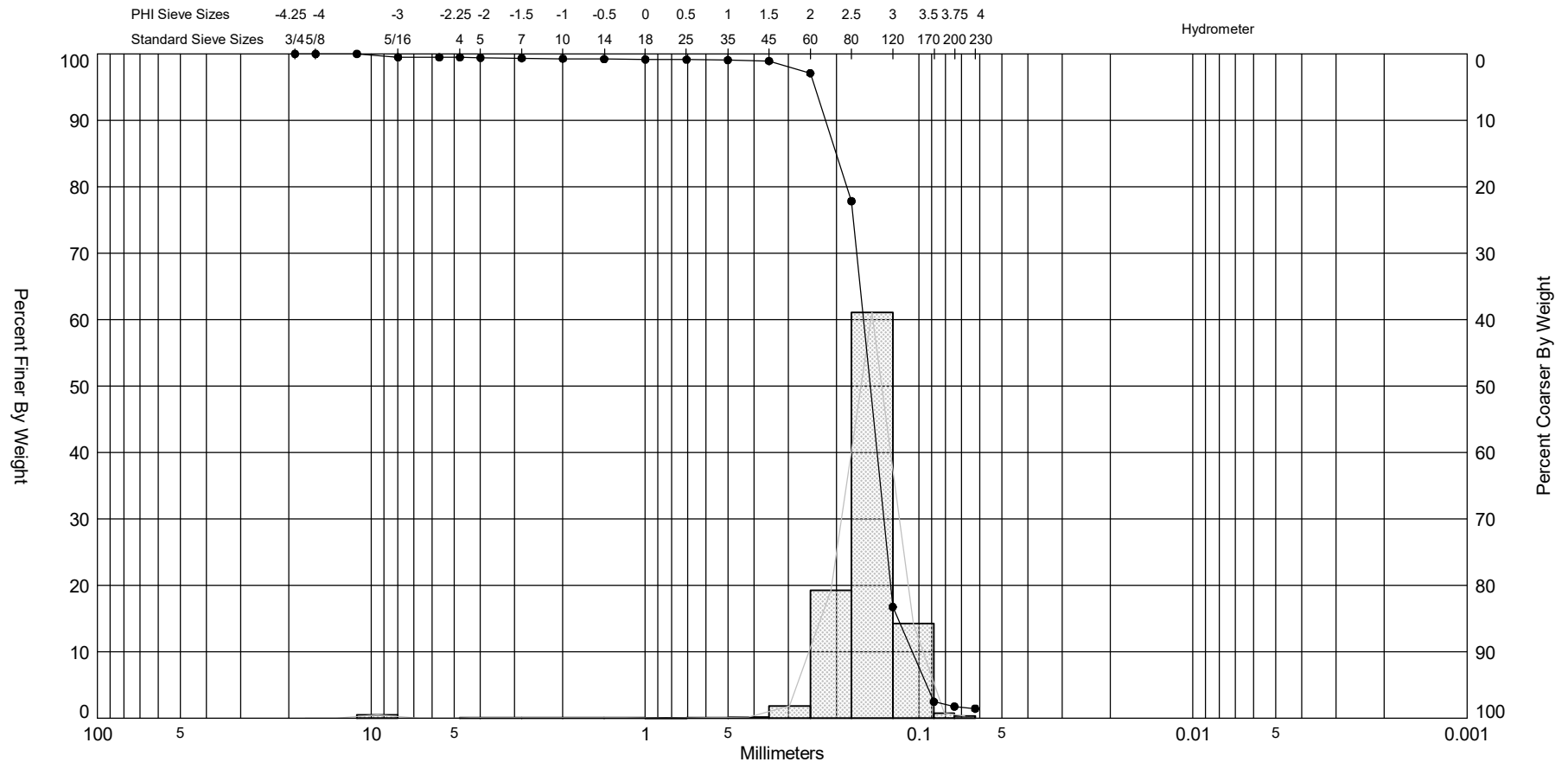
CURRITUCK_COUNTY_BEACH_2020.GPJ 7/17/20




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	
C-061 -12	—●—	-12.3	SW	#200 - 1.26 #230 - 1.11			2.64	2.43	-3.09	13.71	0.92	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-30-20
Depths and elevations based on measured values												Analyzed By:	SF
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												Vertical Datum:	NAVD88

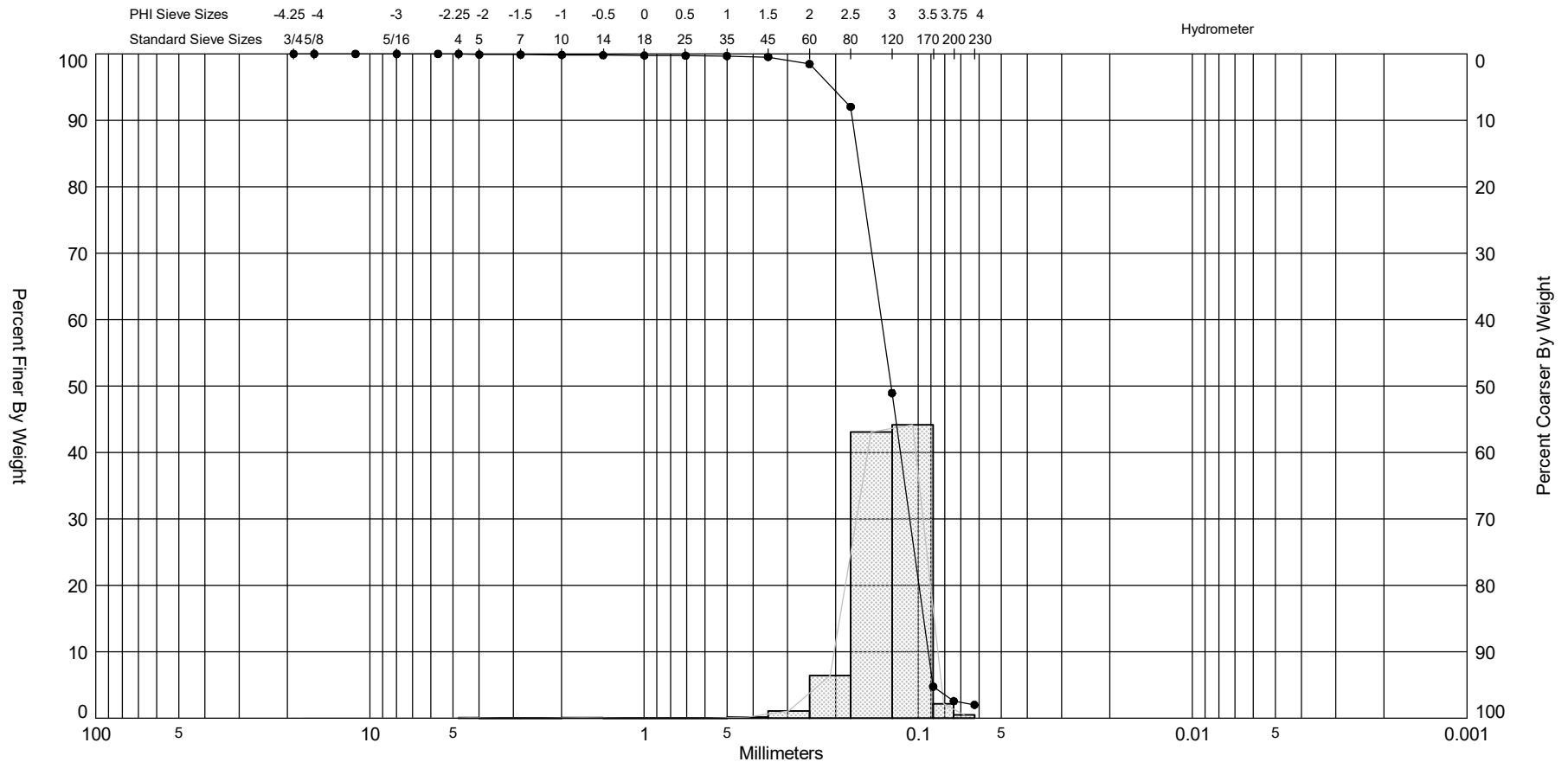
CURRITUCK_COUNTY_BEACH_2020.GPJ 7/17/20




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	
C-061 -14	—●—	-14.1	SP	#200 - 1.75 #230 - 1.45			2.73	2.67	-6.09	57.77	0.6	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-30-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,934,898
												Northing (Y, ft):	975,802
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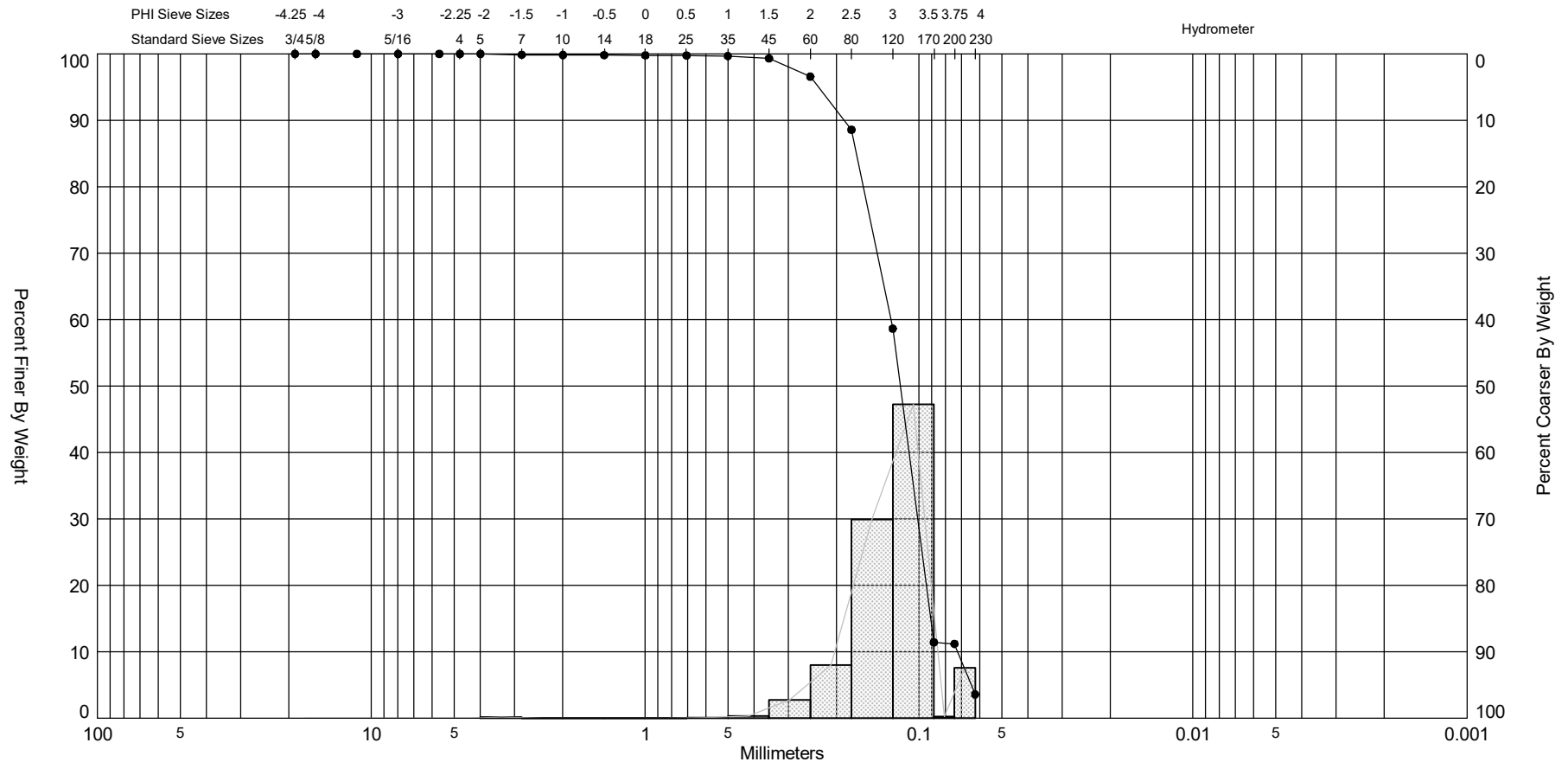
CURRITUCK_COUNTY_BEACH_2020.GPJ 7/17/20




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	
C-061 -16	—●—	-16.1	SP	#200 - 2.56 #230 - 2.02			2.99	2.94	-3.35	34.17	0.42	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-30-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,935,052
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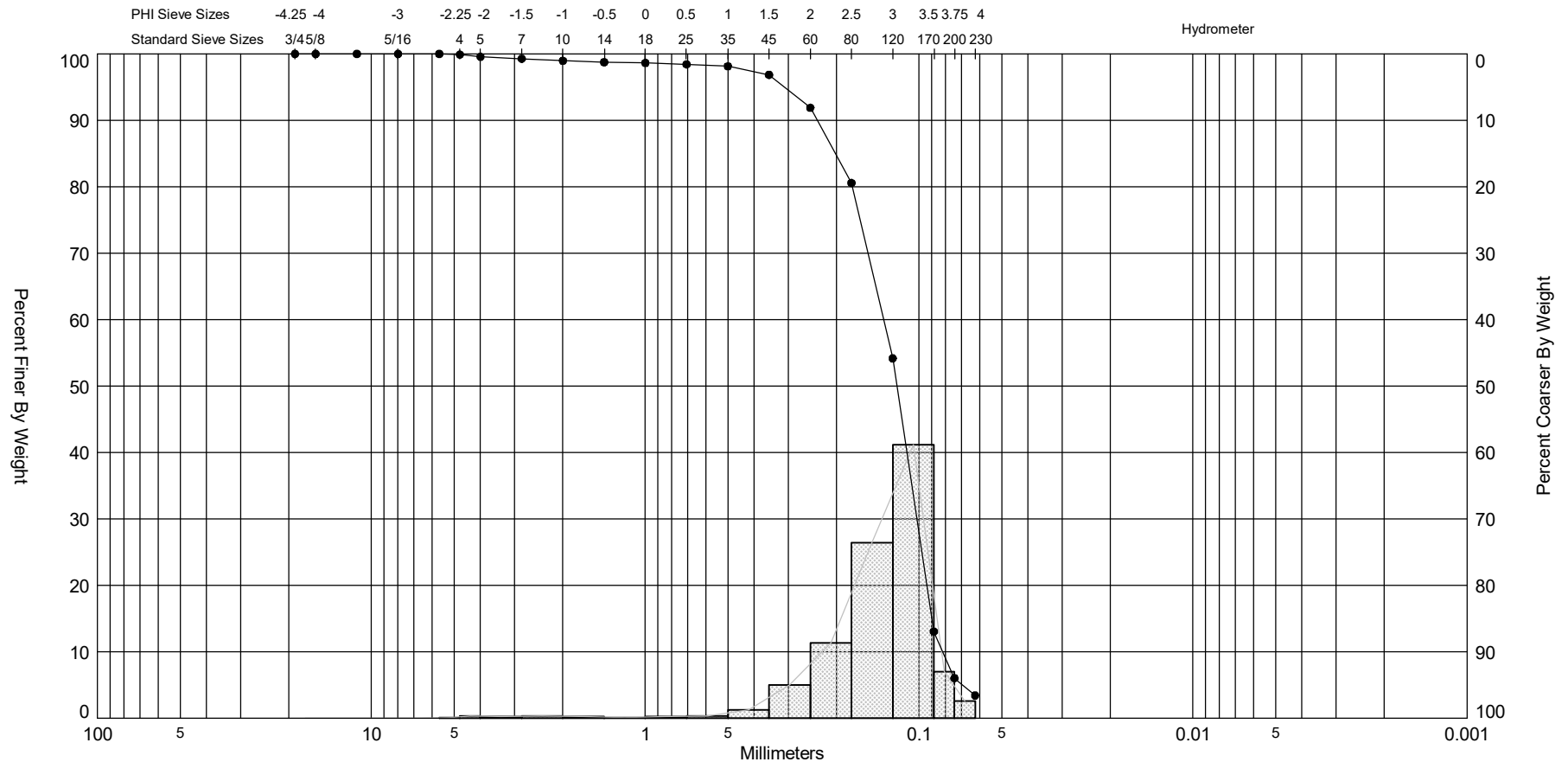
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-061 -18	—●—	-20.0	SP-SM	#200 - 11.19 #230 - 3.58			3.09	3	-2	16.28	0.52	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-03-20
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):	2,935,274
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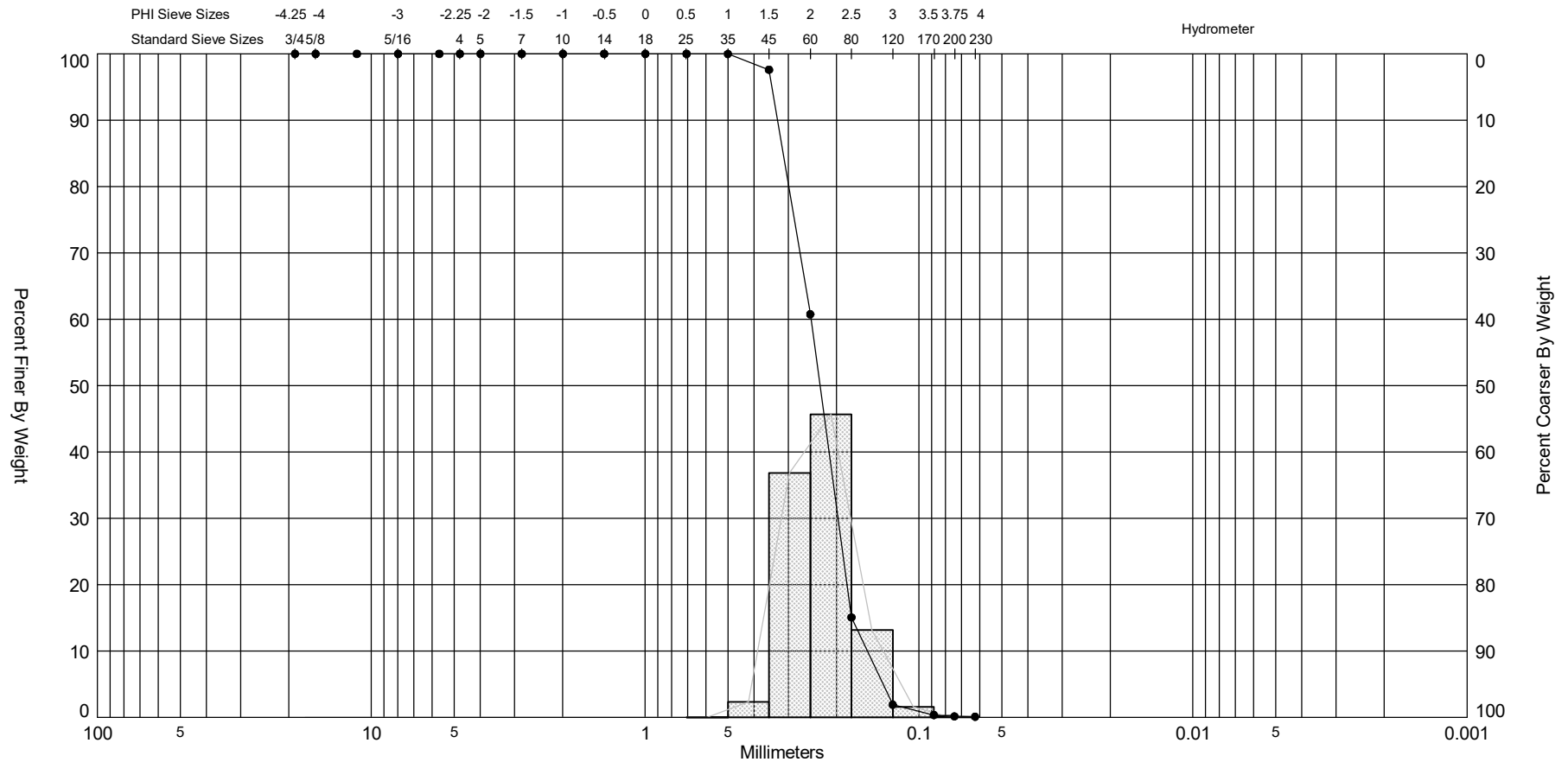
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-061 -20	—●—	-18.1	SP-SM	#200 - 6.03 #230 - 3.42			3.05	2.86	-3.07	17.94	0.76	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-04-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,935,531
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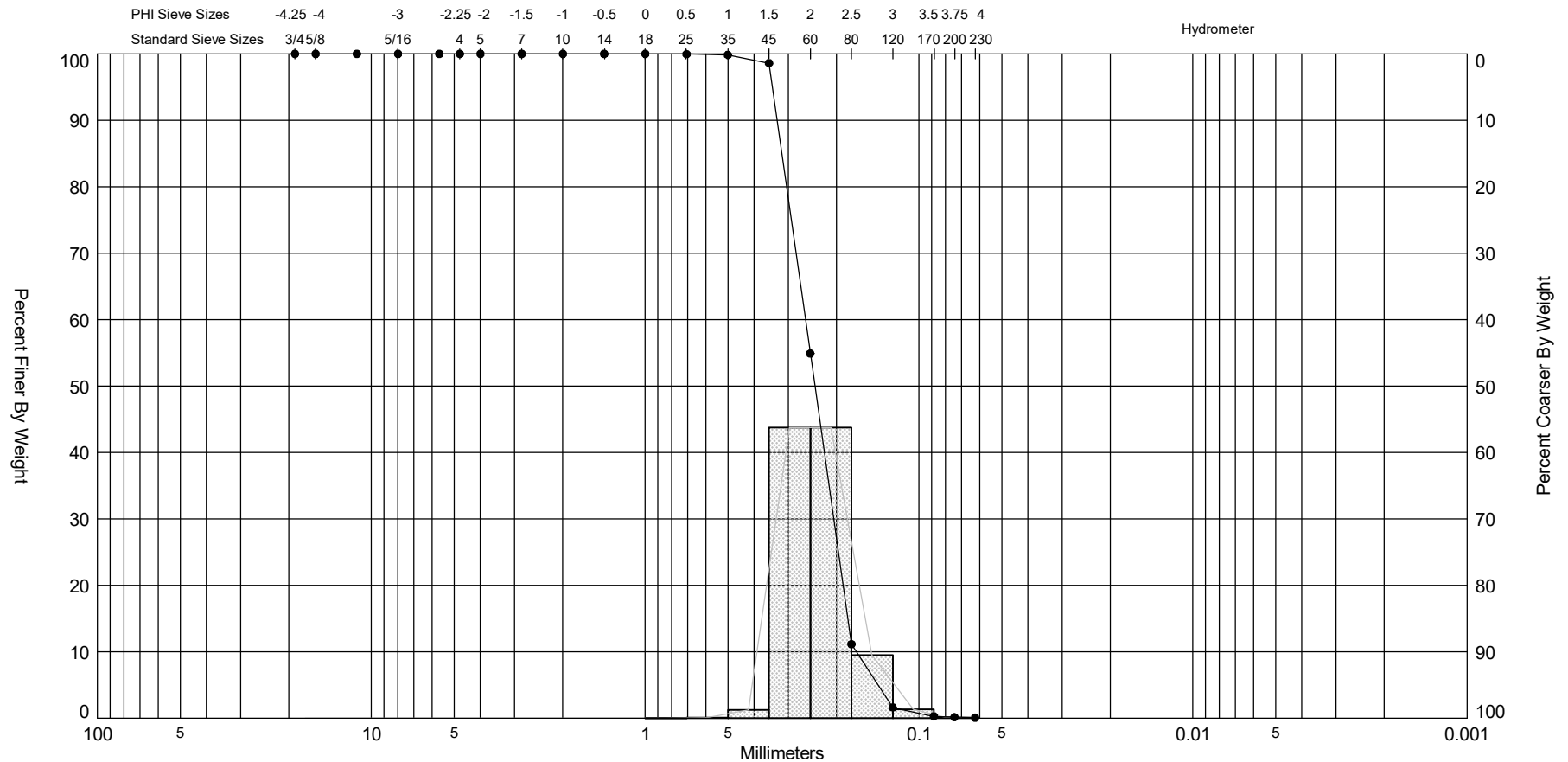
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-075 Dune	—●—	16.3	SP	#200 - 0.15 #230 - 0.10			2.12	2.13	0.46	3.41	0.39	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-04-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,937,125
												Northing (Y, ft):	961,928
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

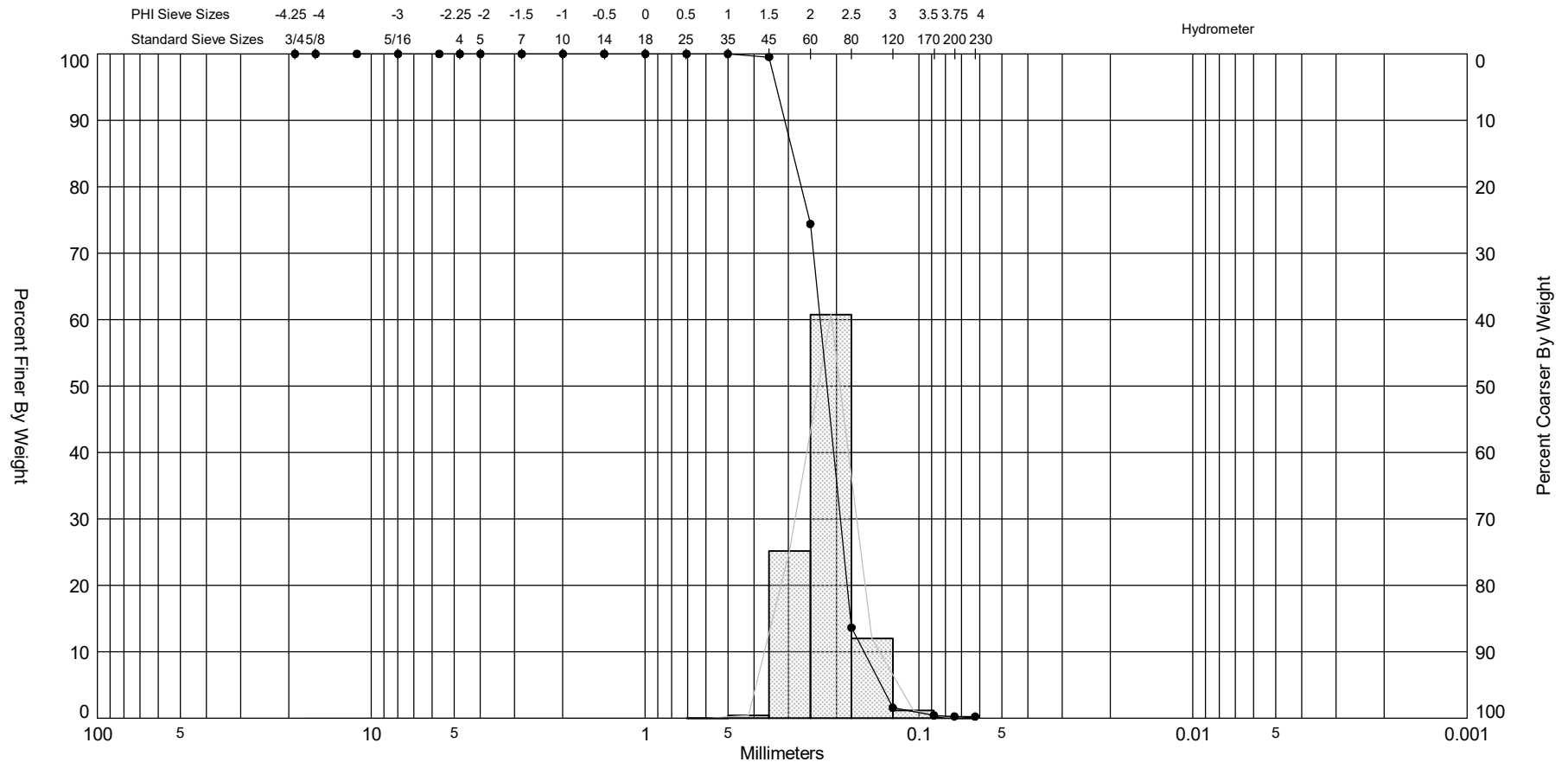
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-075 Dune Toe	—●—	8.0	SP	#200 - 0.15 #230 - 0.07			2.06	2.08	0.66	4.14	0.37	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-04-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,937,148
												Northing (Y, ft):	961,934
												Horizontal Datum:	NAD 1983
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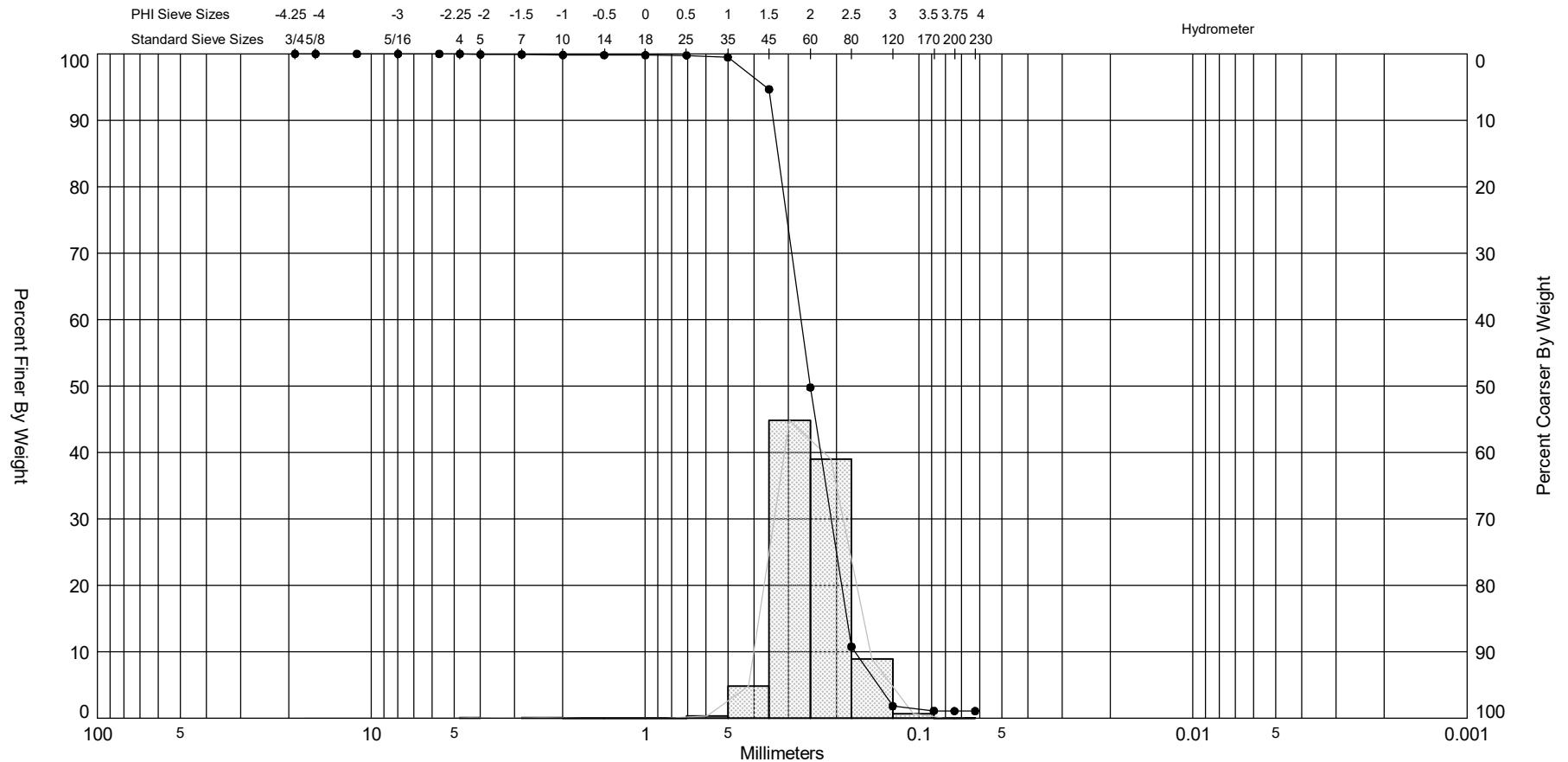
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-075 Mid-Berm	—●—	4.6	SP	#200 - 0.26 #230 - 0.23			2.2	2.19	0.39	4	0.33	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-04-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,937,182
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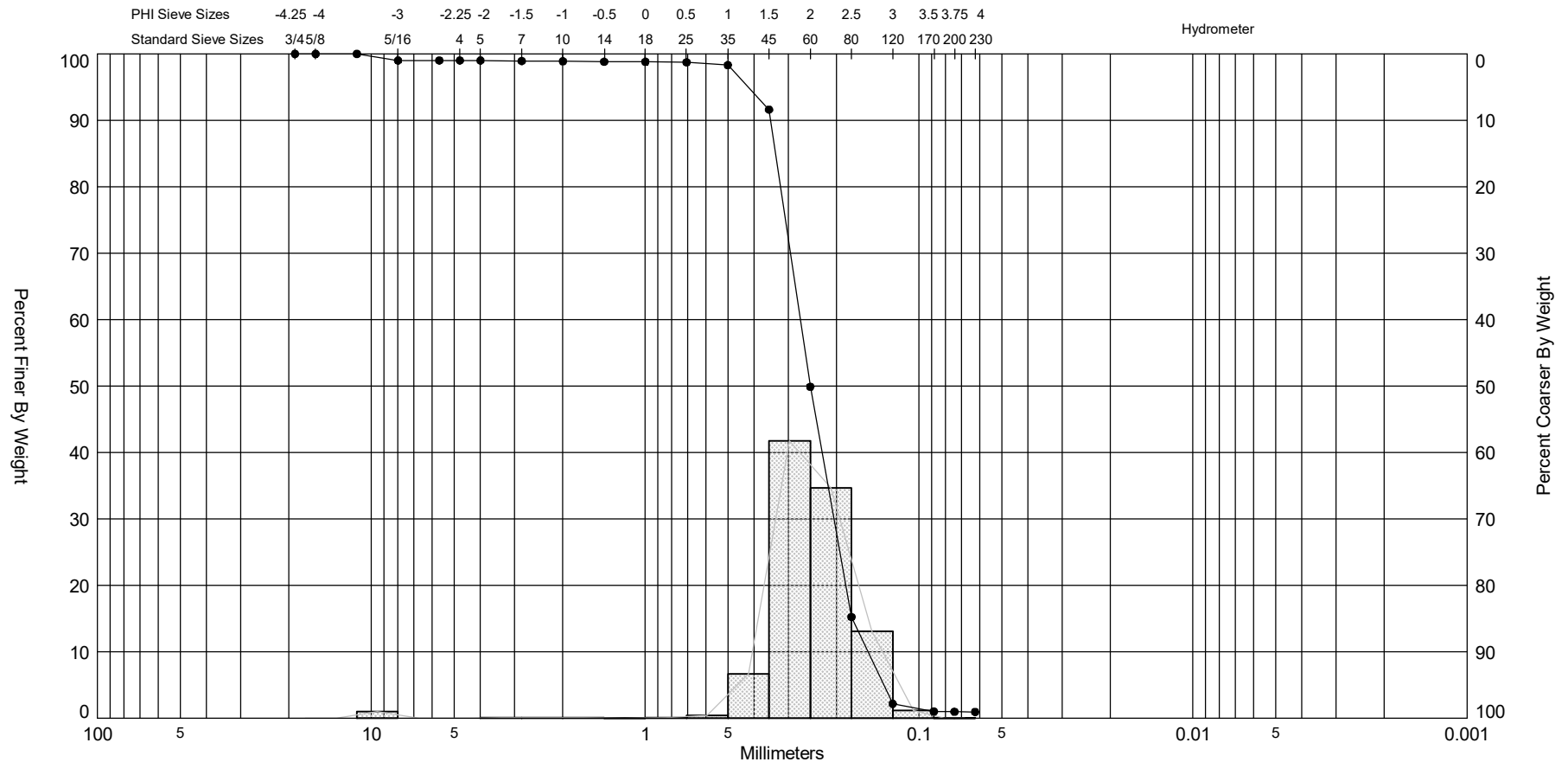
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-075 MHW	—●—	1.3	SP	#200 - 1.07 #230 - 1.06			2	2.02	-0.97	13.69	0.42	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-04-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,937,239
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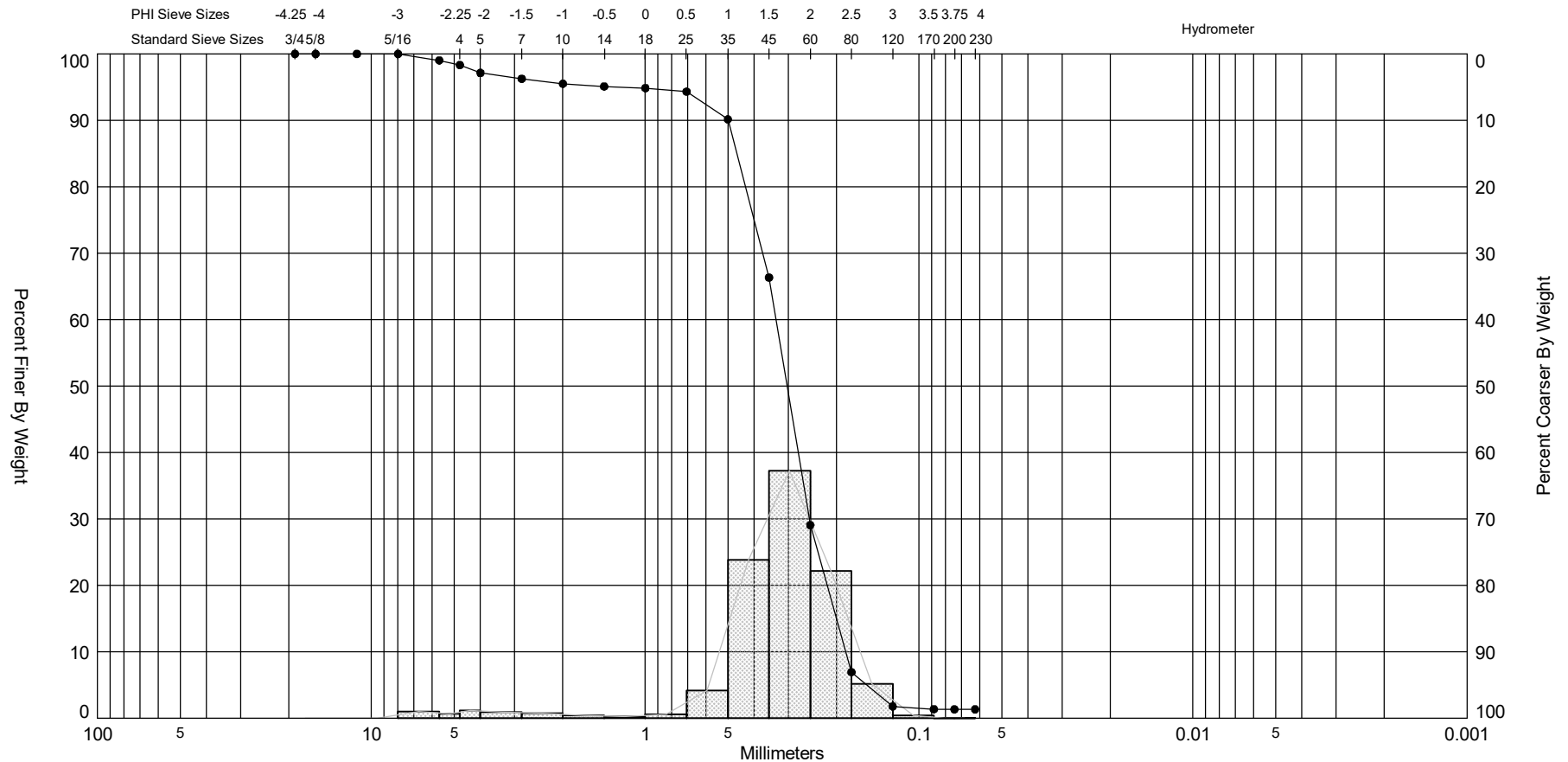
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-075 MT	—●—	-0.4	SP	#200 - 0.96 #230 - 0.94			2	1.98	-4.26	33.13	0.7	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-04-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,937,281
												Northing (Y, ft):	961,965
												Horizontal Datum:	NAD 1983
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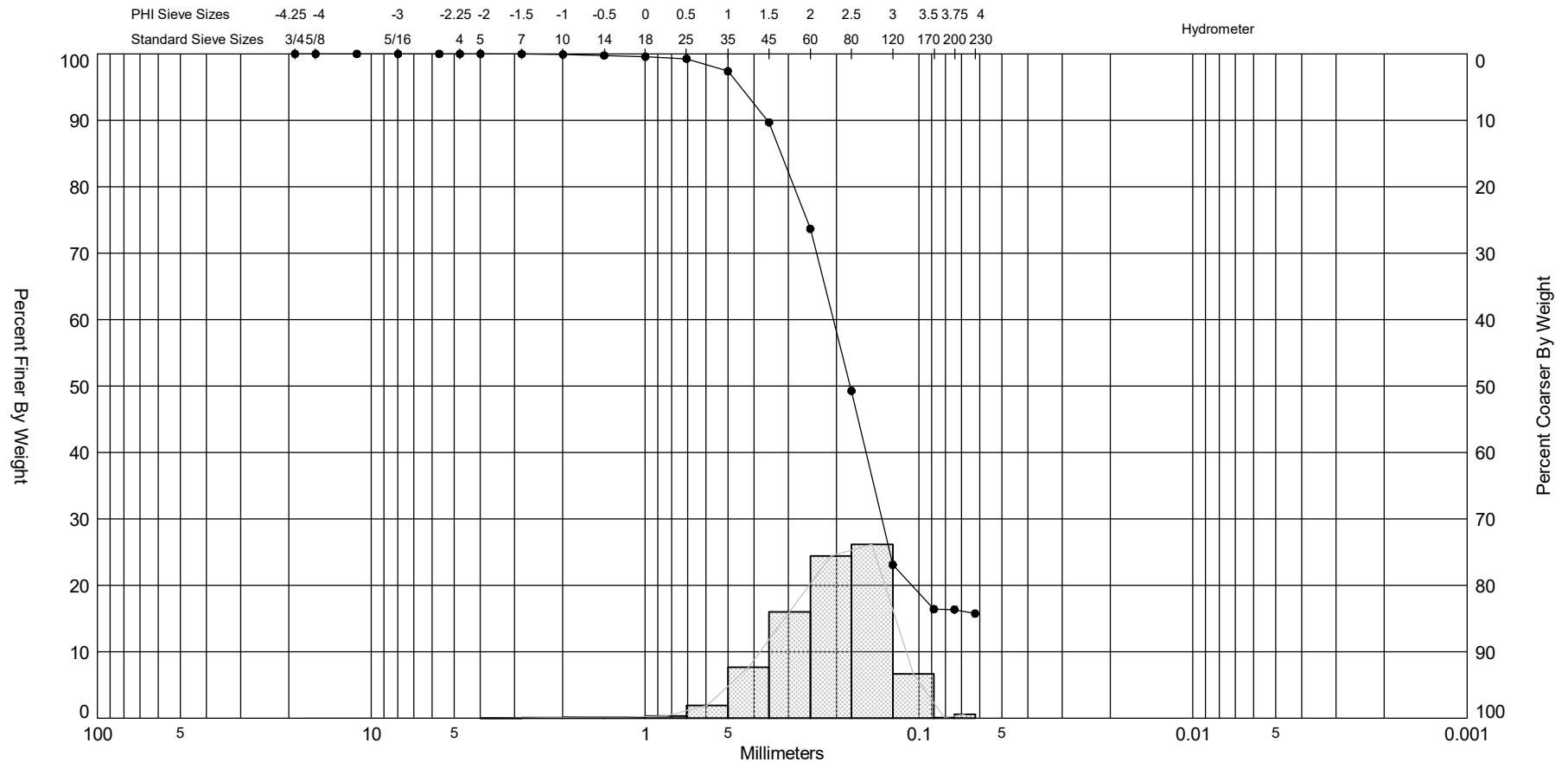
CURRITUCK COUNTY_BEACH_2020.GPJ 8/12/20




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	
C-075 MLW	—●—	-2.2	SW	#200 - 1.34 #230 - 1.33			1.72	1.56	-2.57	11.1	0.96	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-04-20
Depths and elevations based on measured values												Analyzed By:	SF
						APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102						Easting (X, ft):	2,937,341
												Northing (Y, ft):	961,985
												Horizontal Datum:	NAD 1983
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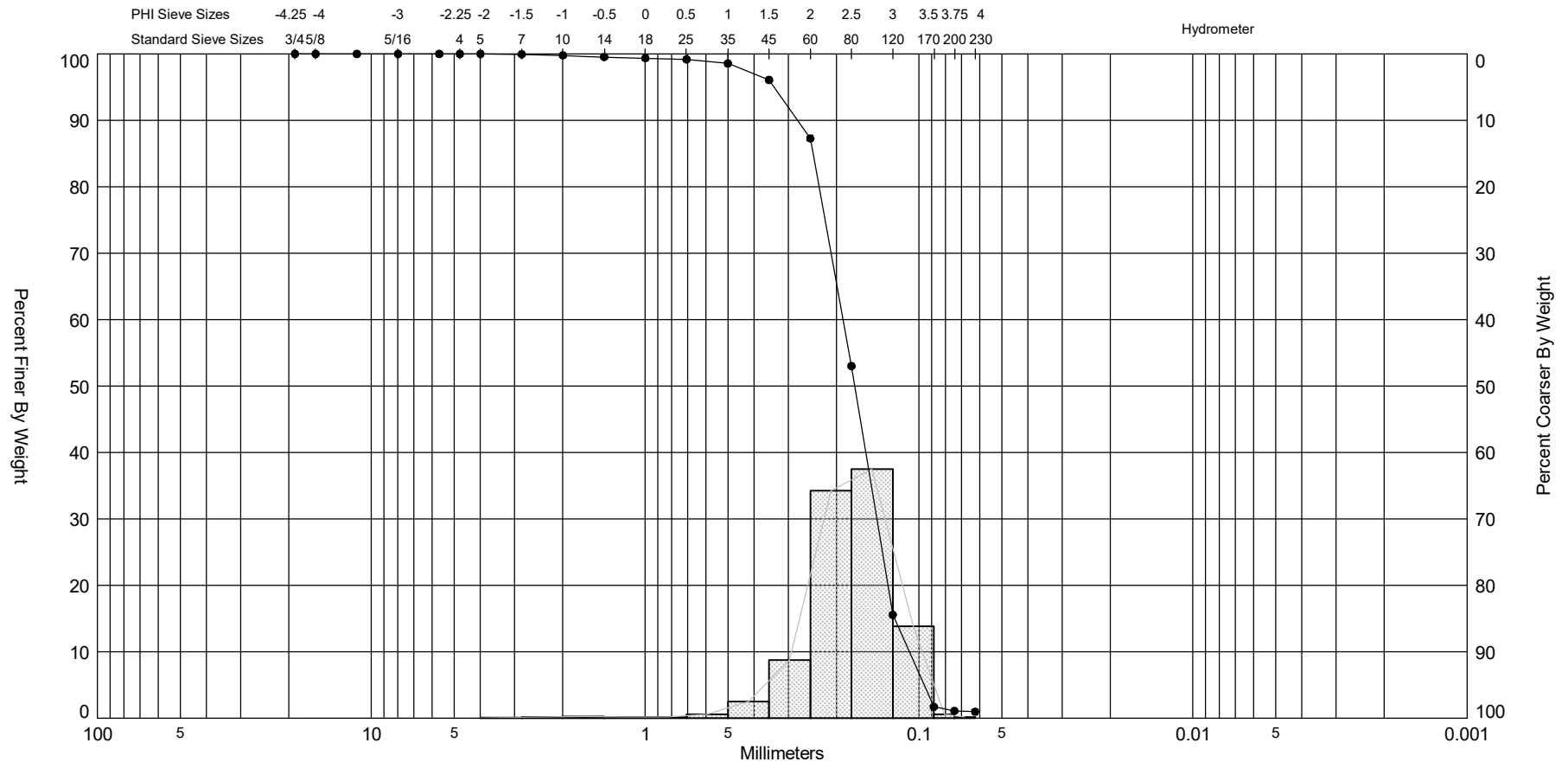
CURRITUCK COUNTY_BEACH_2020.GPJ 7/17/20




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	
C-075 Trough	—●—	-13.0	SM	#200 - 16.36 #230 - 15.75			2.49	2.26	-0.74	4.61	0.65	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-25-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,937,820
												Northing (Y, ft):	962,089
												Horizontal Datum:	NAD 1983
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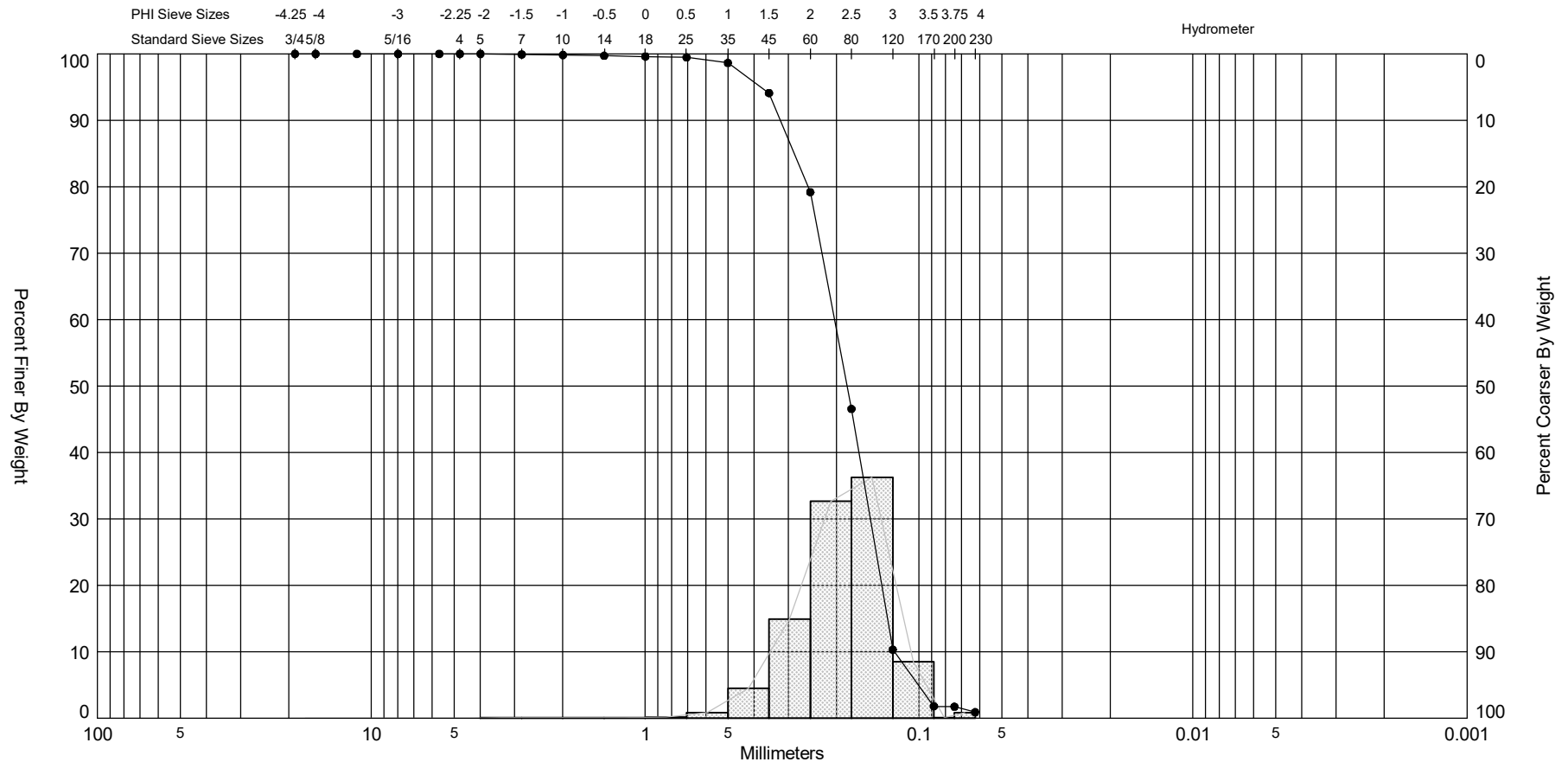
CURRITUCK COUNTY_BEACH_2020.GPJ 7/17/20




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	
C-075 Bar	—●—	-10.1	SP	#200 - 1.10 #230 - 0.96			2.54	2.49	-1.65	10.6	0.57	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-25-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,938,072
												Northing (Y, ft):	962,148
												Horizontal Datum:	NAD 1983
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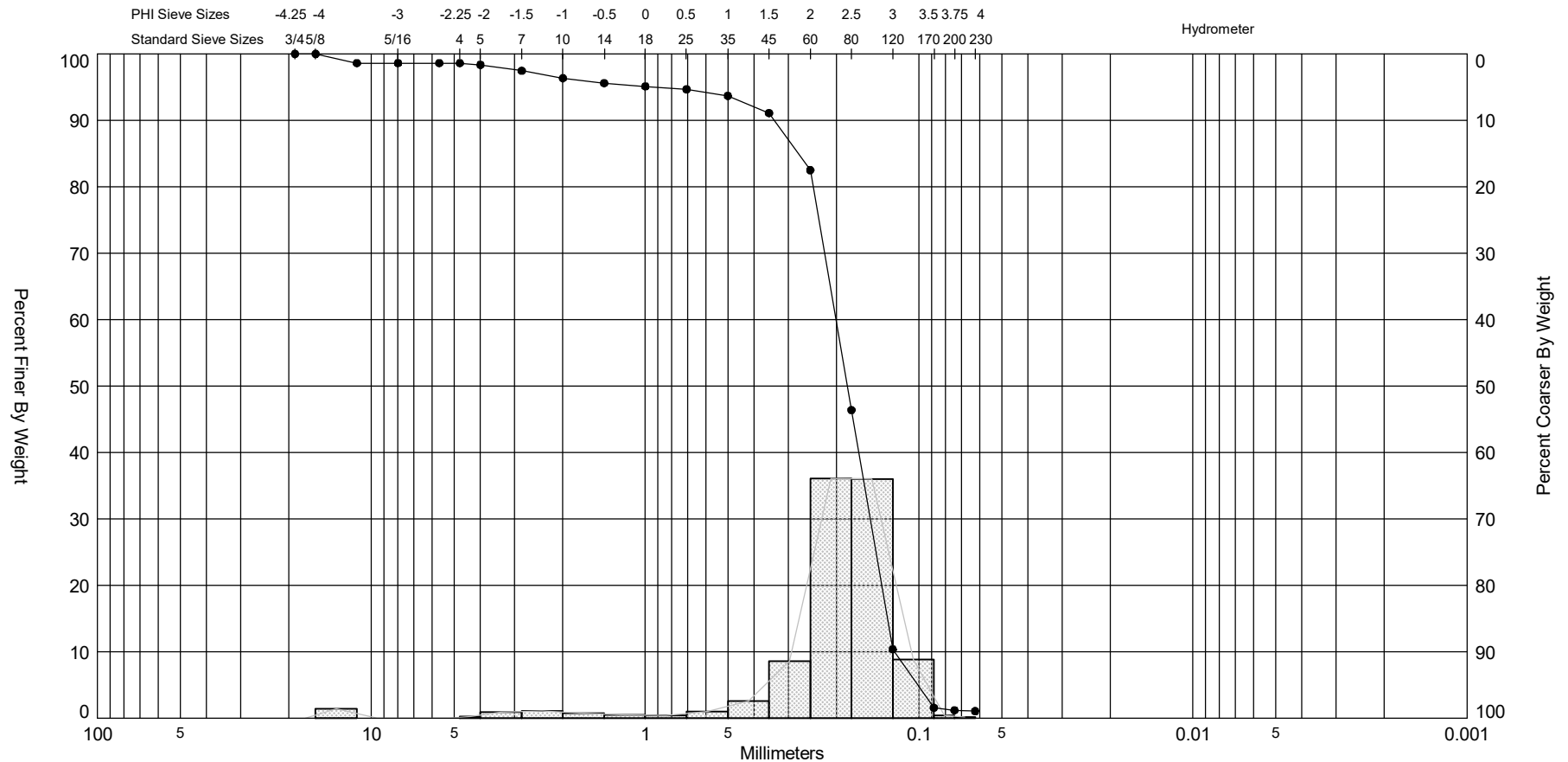
CURRITUCK COUNTY_BEACH_2020.GPJ 7/17/20




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	
C-075 -12	—●—	-12.0	SP	#200 - 1.72 #230 - 0.89			2.45	2.38	-1.11	7.74	0.58	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-25-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,938,235
												Northing (Y, ft):	962,184
												Horizontal Datum:	NAD 1983
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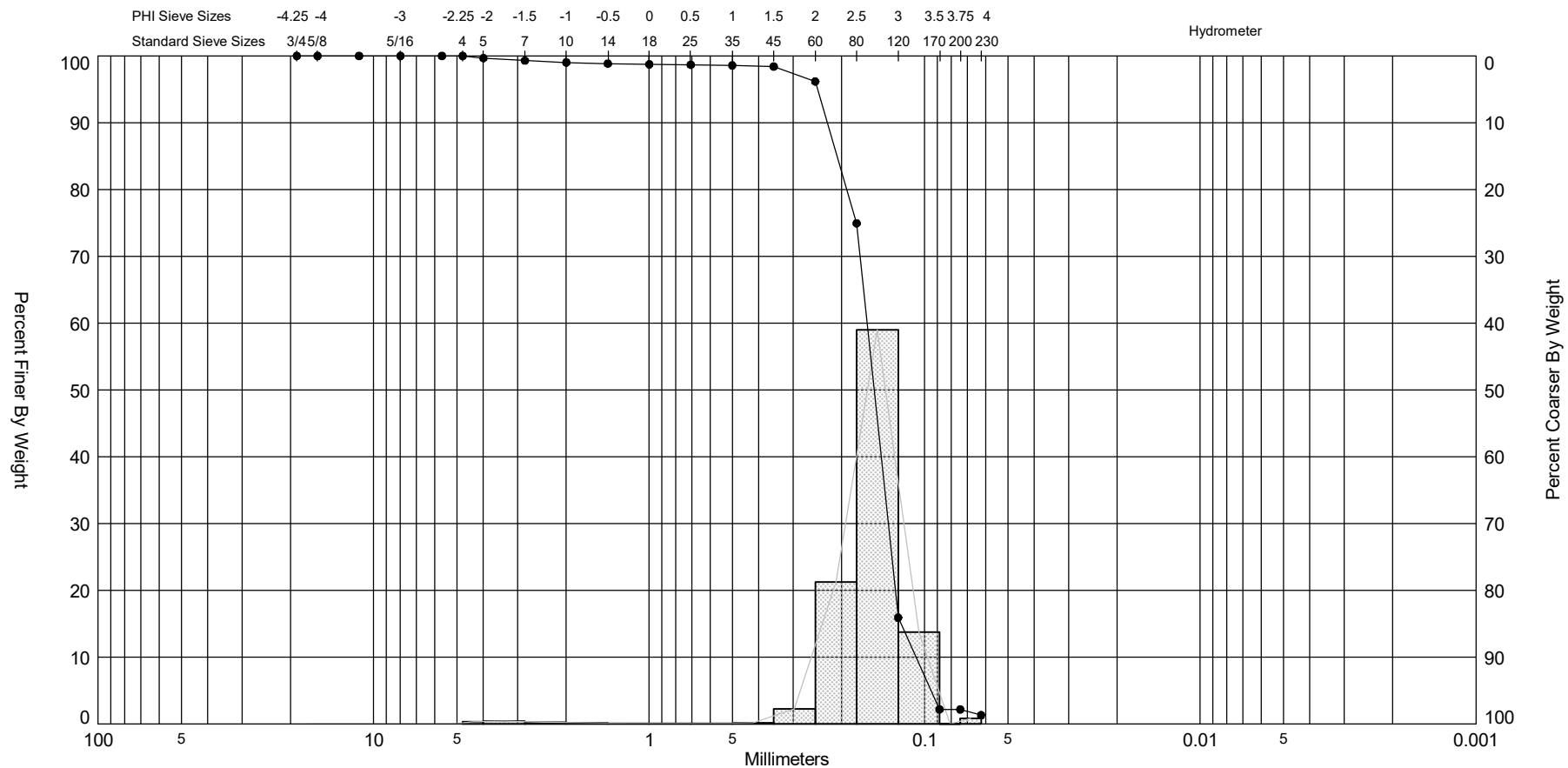
CURRITUCK_COUNTY_BEACH_2020.GPJ 7/17/20




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	
C-075 -14	—●—	-14.3	SW	#200 - 1.19 #230 - 1.05			2.45	2.23	-3.34	16.16	1.1	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-25-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,938,336
												Northing (Y, ft):	962,208
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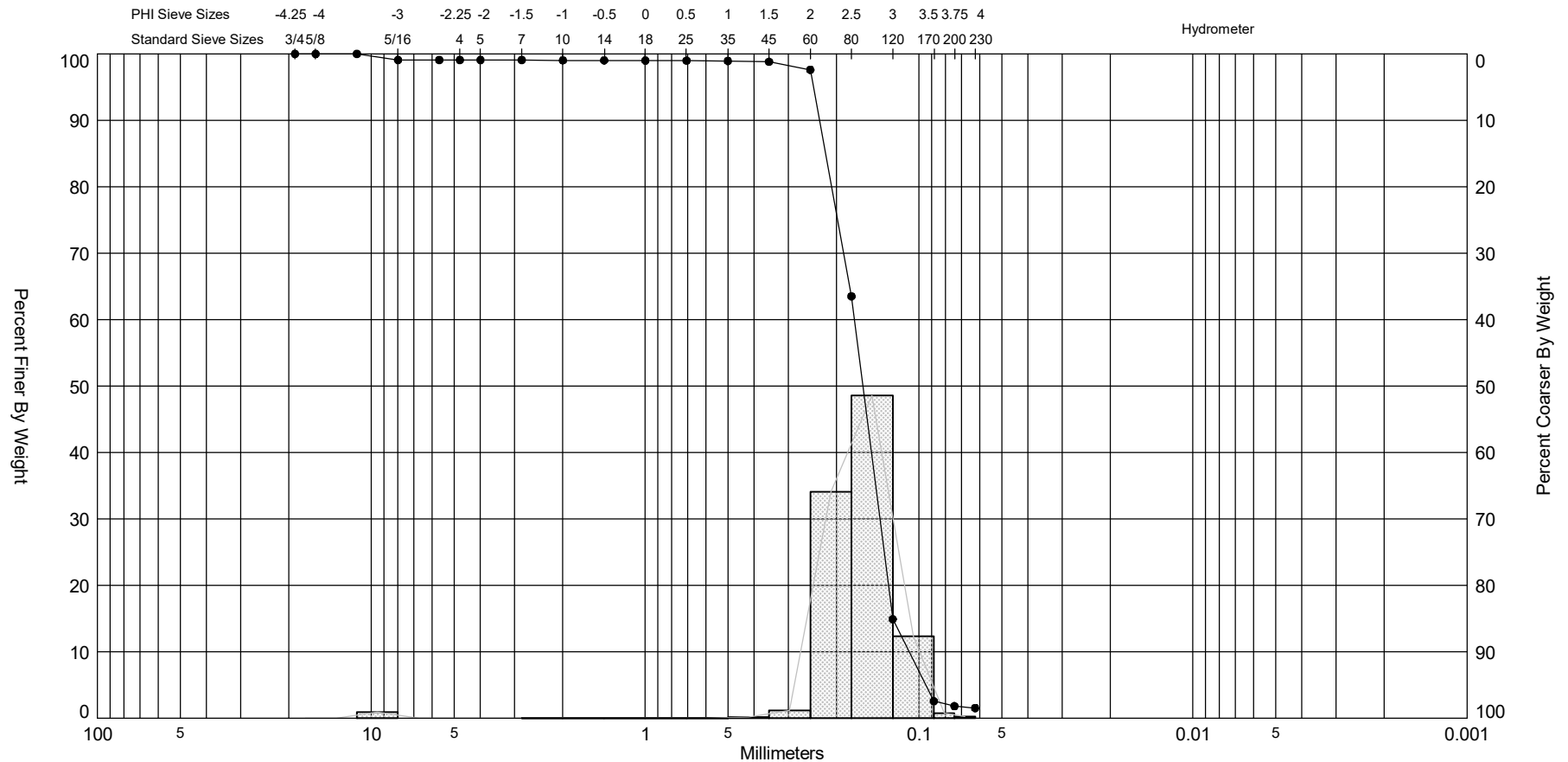
CURRITUCK COUNTY_BEACH_2020.GPJ 7/17/20




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	
C-075 -16	—●—	-16.2	SP	#200 - 2.17 #230 - 1.30			2.71	2.64	-4.45	33.3	0.59	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-25-20
Depths and elevations based on measured values												Analyzed By:	SF
						APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102						Easting (X, ft):	2,938,463
												Northing (Y, ft):	962,237
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												Vertical Datum:	NAVD88

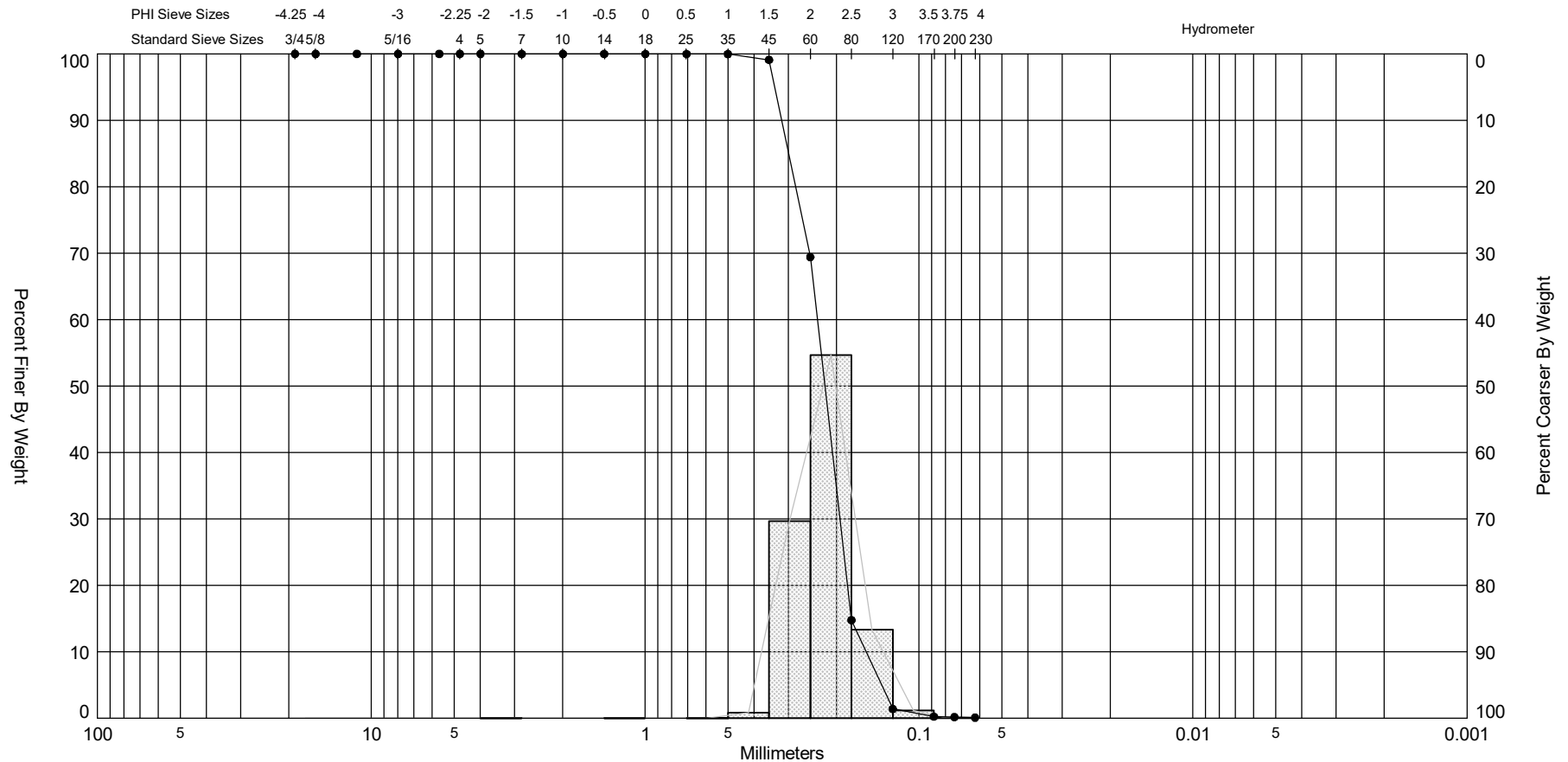
CURRITUCK COUNTY_BEACH_2020.GPJ 7/17/20




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

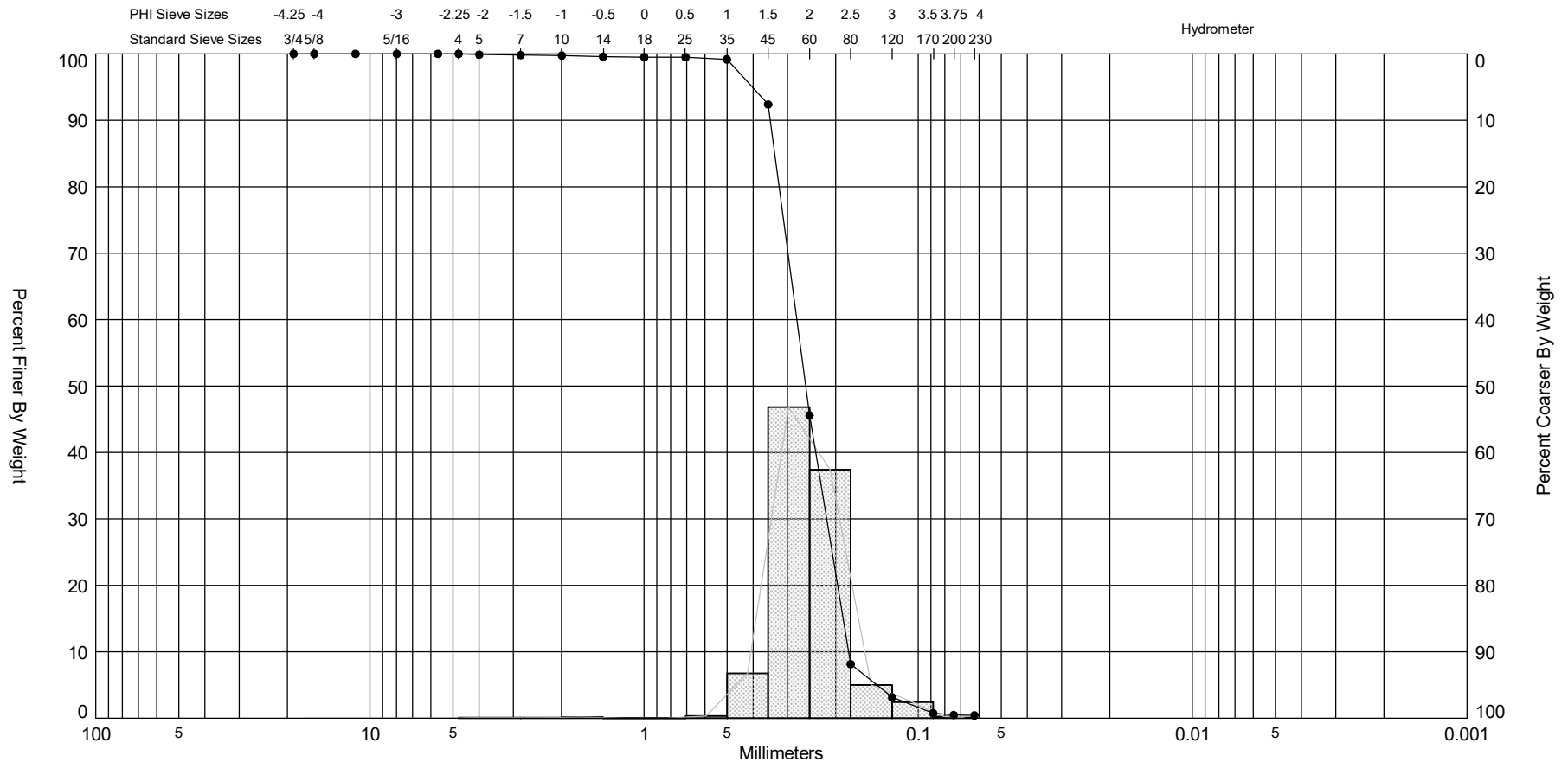
Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
C-075 -18	—●—	-18.2	SP	#200 - 1.80 #230 - 1.53			2.64	2.57	-5.9	51.2	0.68	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-25-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,938,616
												Northing (Y, ft):	962,272
												Horizontal Datum:	NAD 1983
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CURRITUCK COUNTY_BEACH_2020.GPJ 6/15/20




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

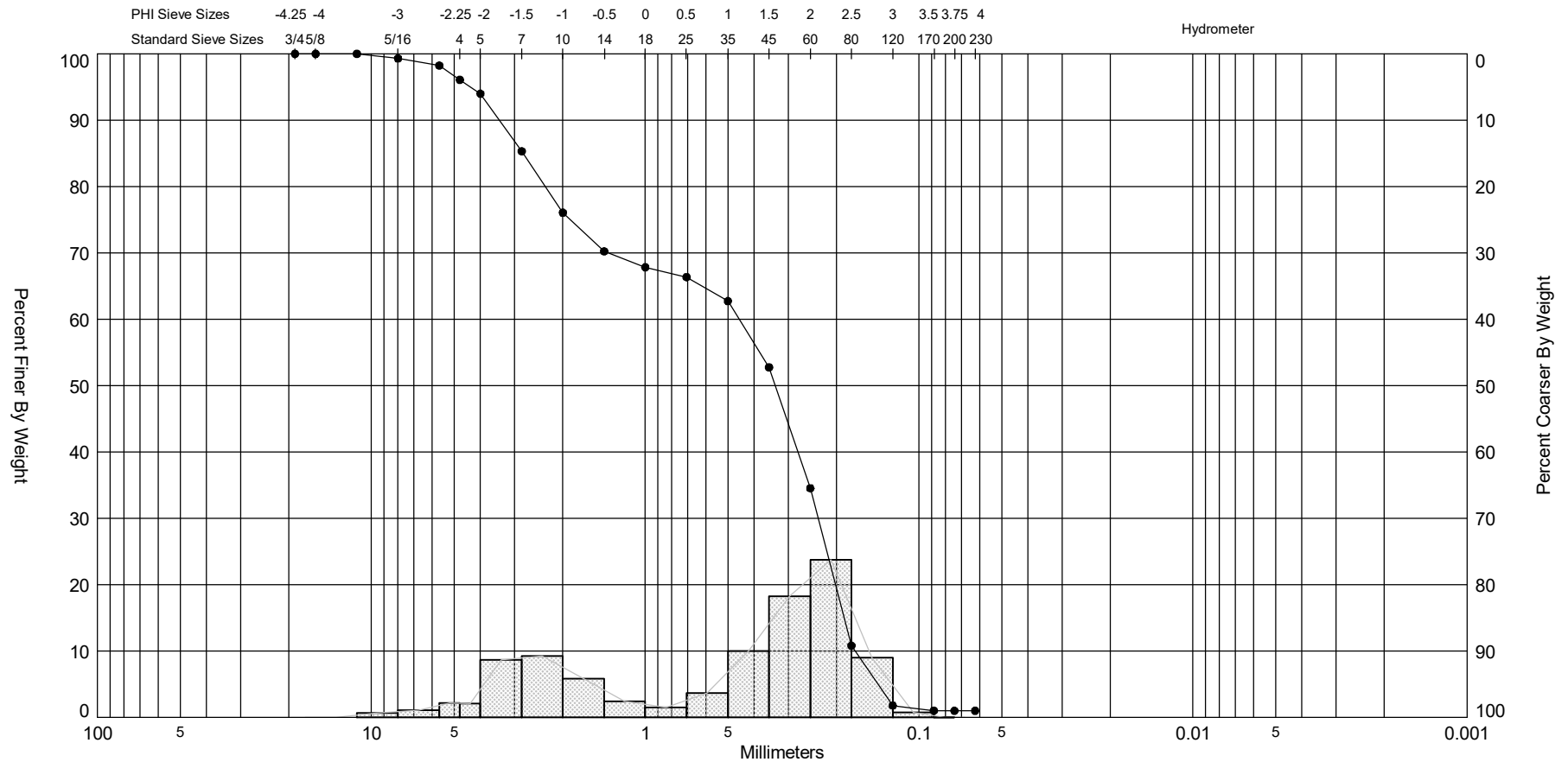
Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
C-090 Dune Toe	—●—	9.4	SP	#200 - 0.17 #230 - 0.08			2.18	2.17	0.22	5.05	0.36	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-04-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,941,426
												Northing (Y, ft):	947,578
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88




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	
C-090 Mid-Berm	—●—	5.6	SP	#200 - 0.47 #230 - 0.42			1.95	1.98	-1.16	15.81	0.47	Project Name:	Currituck Beach Monitoring 2020
Comments:											Analysis Date:	06-04-20	
Depths and elevations based on measured values											Analyzed By:	SF	
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,941,449
												Northing (Y, ft):	947,586
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

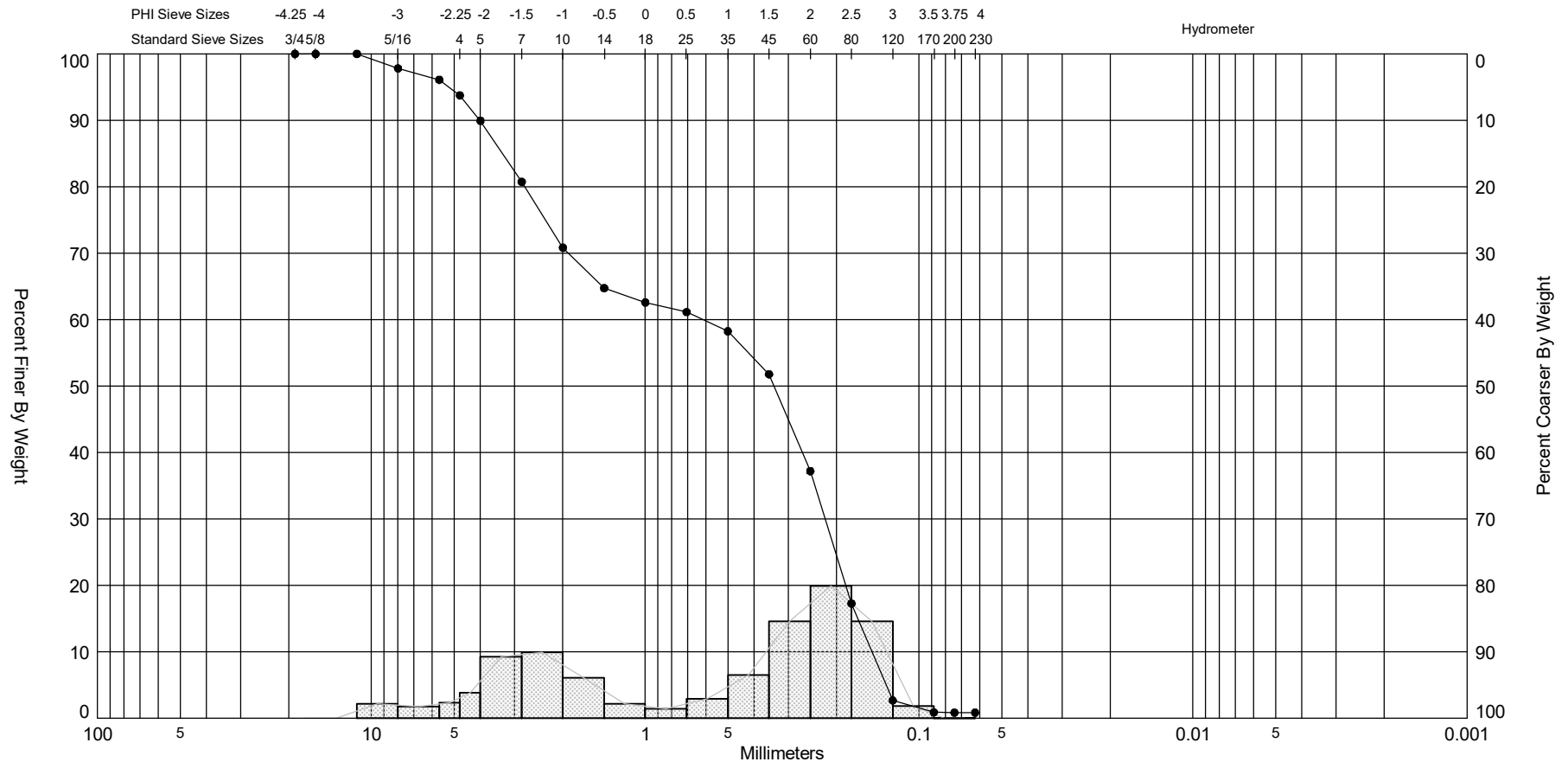
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-090 MHW	—●—	1.2	SW	#200 - 0.99 #230 - 0.99			1.58	0.83	-0.66	1.97	1.7	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-05-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,941,541
												Northing (Y, ft):	947,617
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

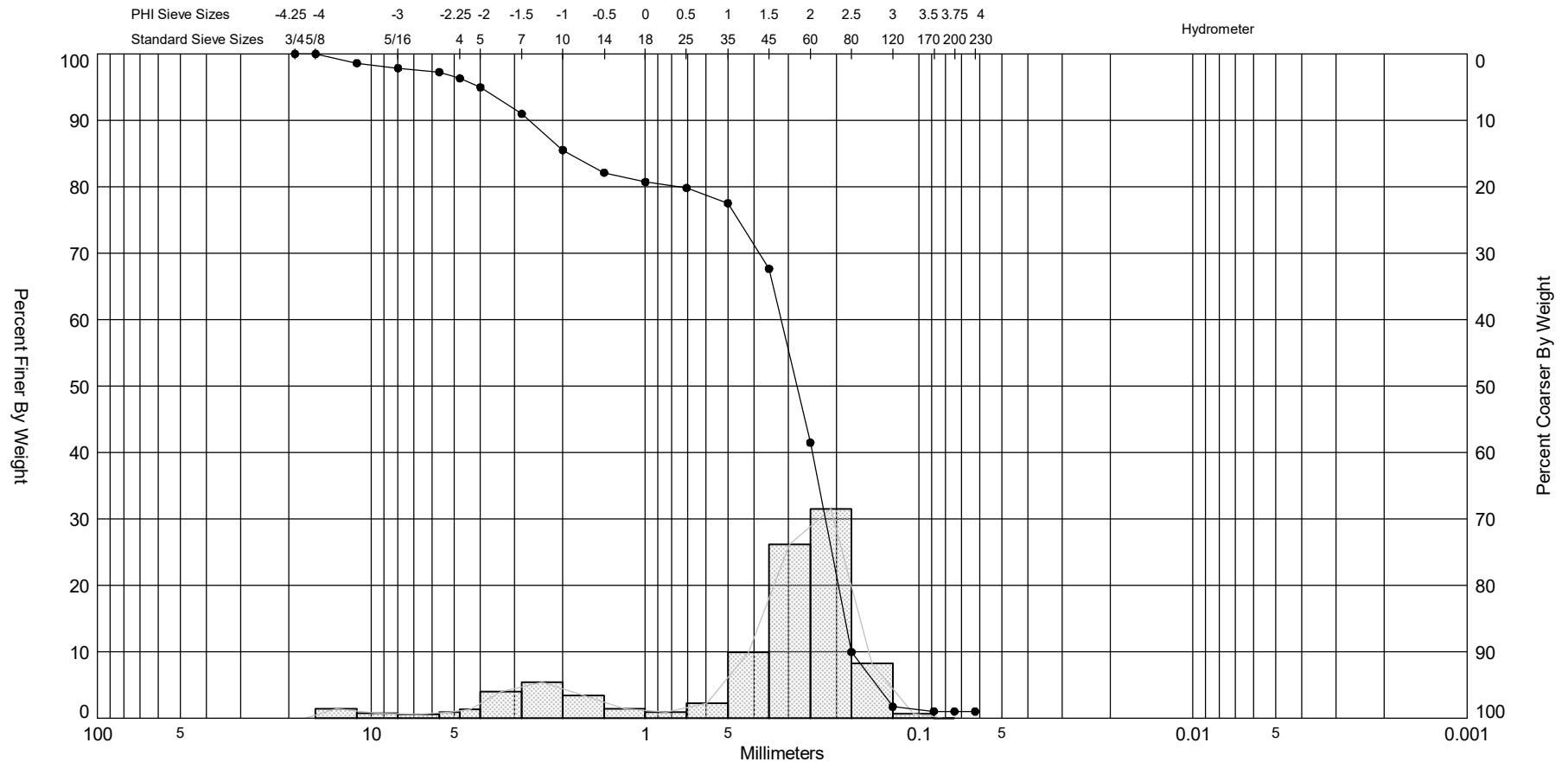
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-090 MT	—●—	-0.4	SW	#200 - 0.84 #230 - 0.83			1.56	0.69	-0.48	1.72	1.89	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-05-20
Depths and elevations based on measured values												Analyzed By:	SF
						APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102						Easting (X, ft):	2,941,570
												Northing (Y, ft):	947,626
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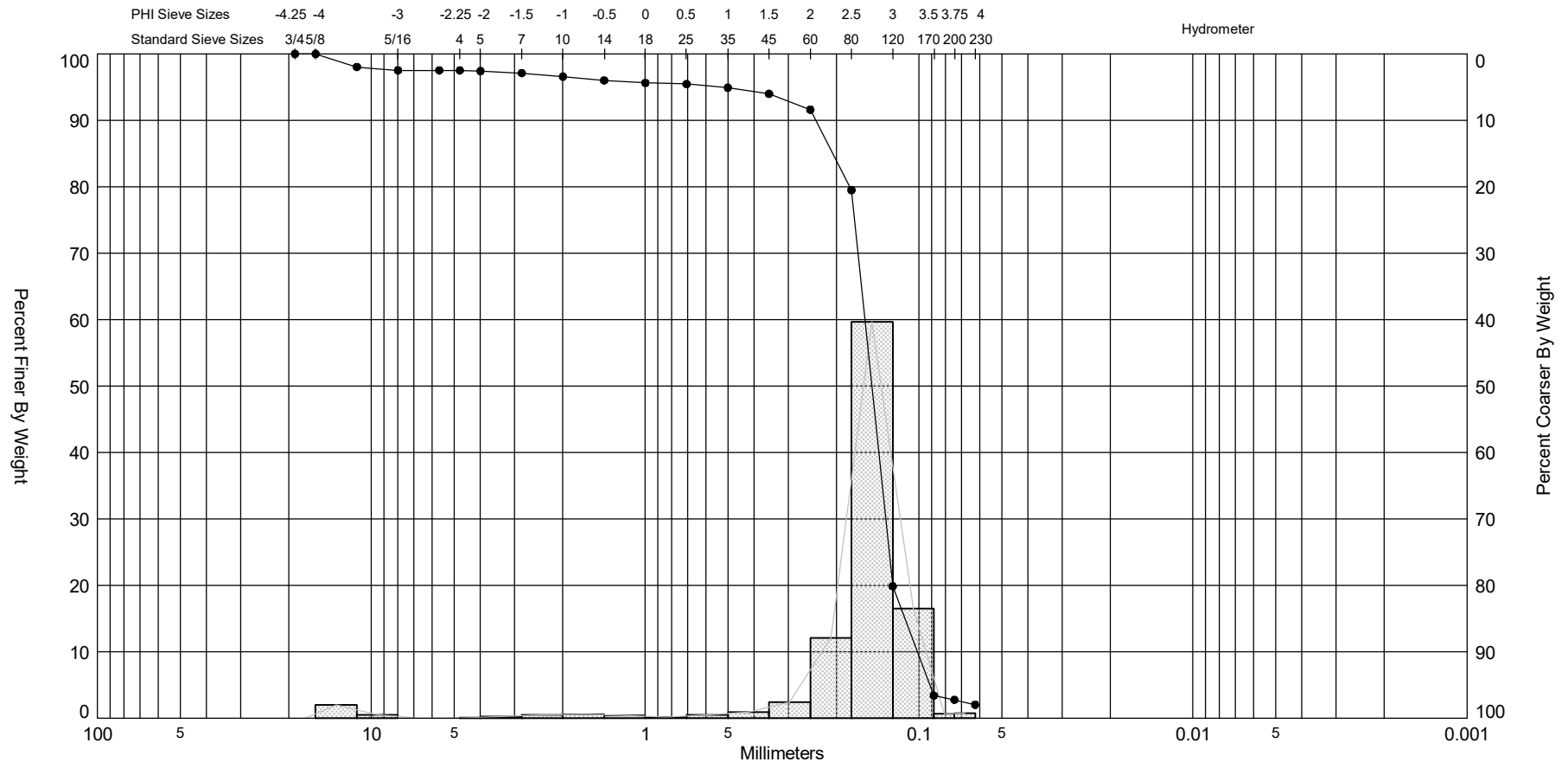
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-090 MLW	—●—	-2.2	SW	#200 - 1.01 #230 - 1.01			1.84	1.26	-1.5	4.26	1.54	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-05-20
Depths and elevations based on measured values												Analyzed By:	SF
						APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102						Easting (X, ft):	2,941,608
												Northing (Y, ft):	947,640
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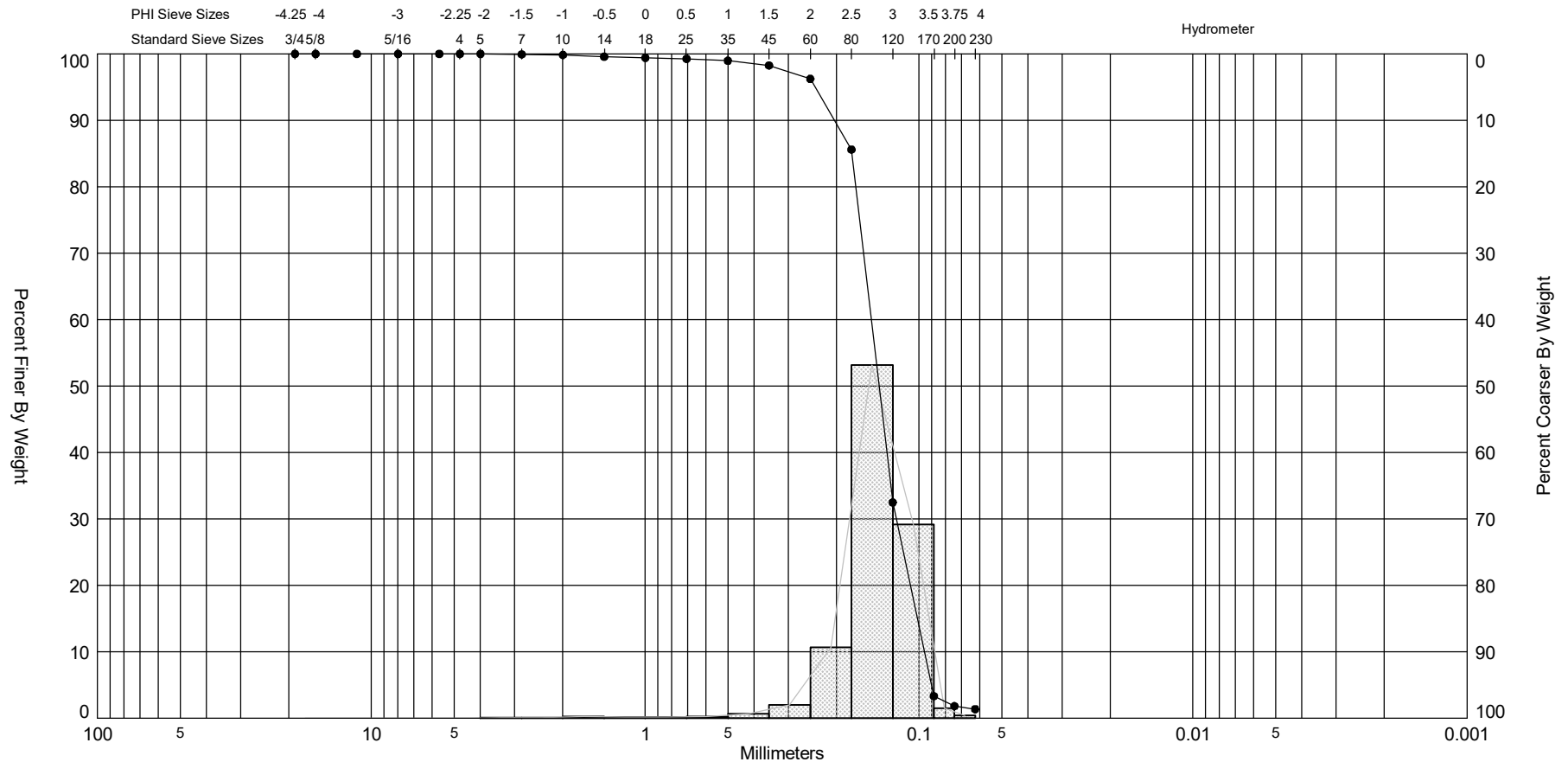
CURRITUCK_COUNTY_BEACH_2020.GPJ 7/17/20




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

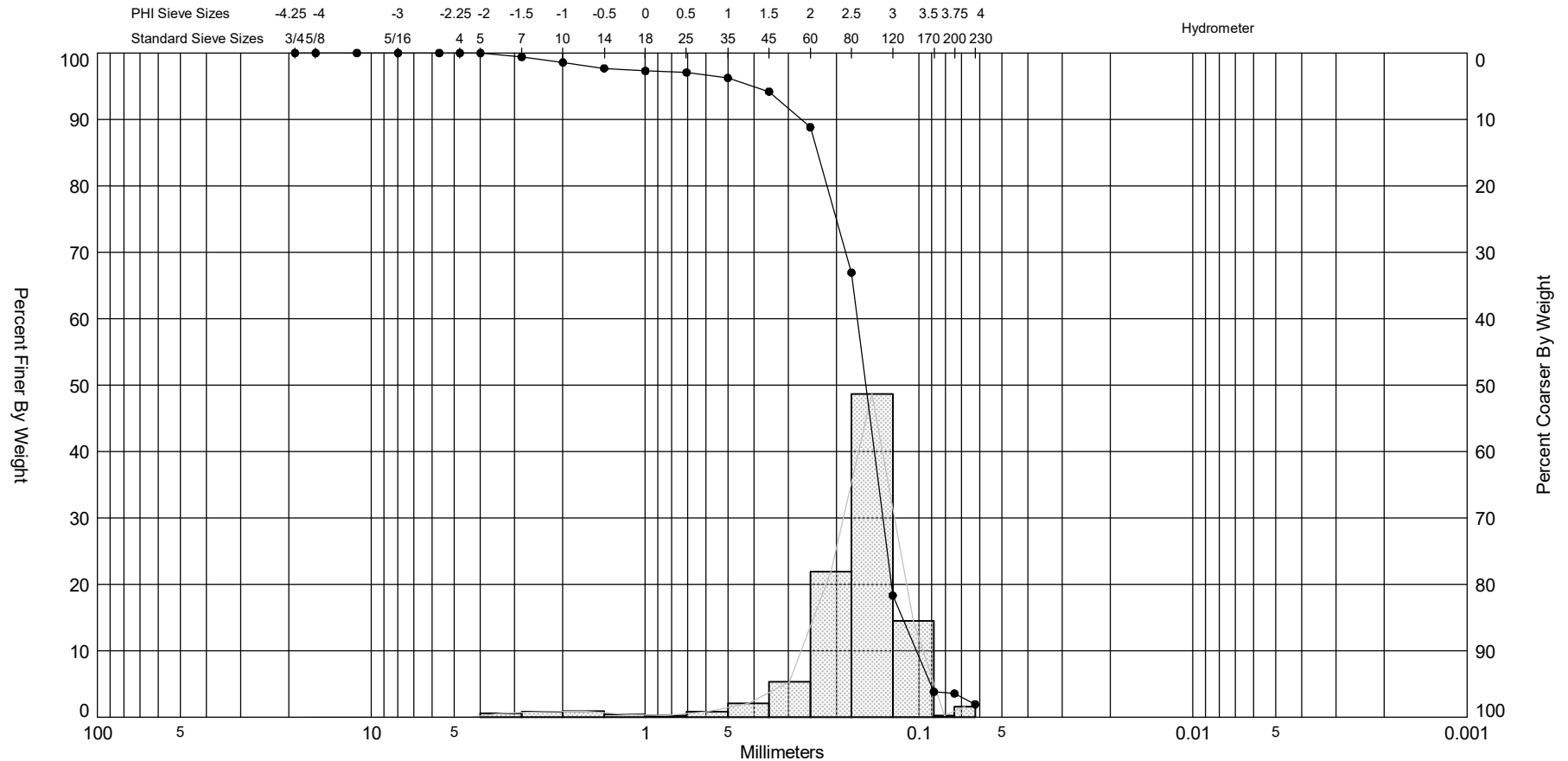
Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
C-090 Bar	—●—	-11.1	SW	#200 - 2.77 #230 - 2.03			2.75	2.5	-4	19.88	1.19	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	07-07-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,942,345
												Northing (Y, ft):	947,862
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

CURRITUCK_COUNTY_BEACH_2020.GPJ 7/17/20




Gravel		Sand			Silt and Clay	
Coarse	Fine	Coarse	Medium	Fine		

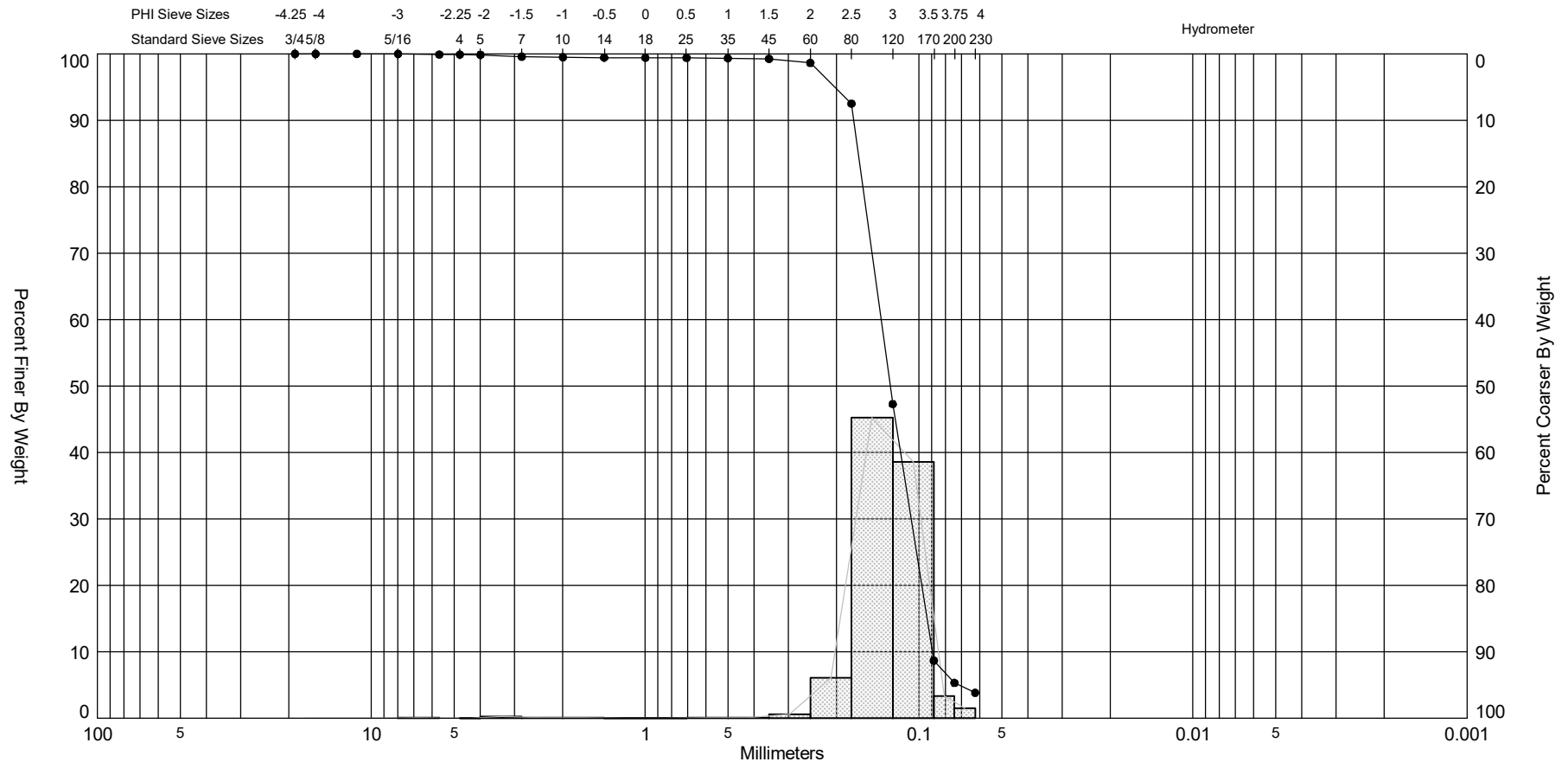
Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
C-090 -12	—●—	-12.2	SP	#200 - 1.81 #230 - 1.36			2.84	2.8	-2.96	21.14	0.5	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	07-07-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,942,460
												Northing (Y, ft):	947,894
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88




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	
C-090 -14	—●—	-14.2	SP	#200 - 3.56 #230 - 1.94			2.67	2.52	-2.81	13.93	0.79	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	07-07-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,942,582
												Northing (Y, ft):	947,931
												Horizontal Datum:	NAD 1983
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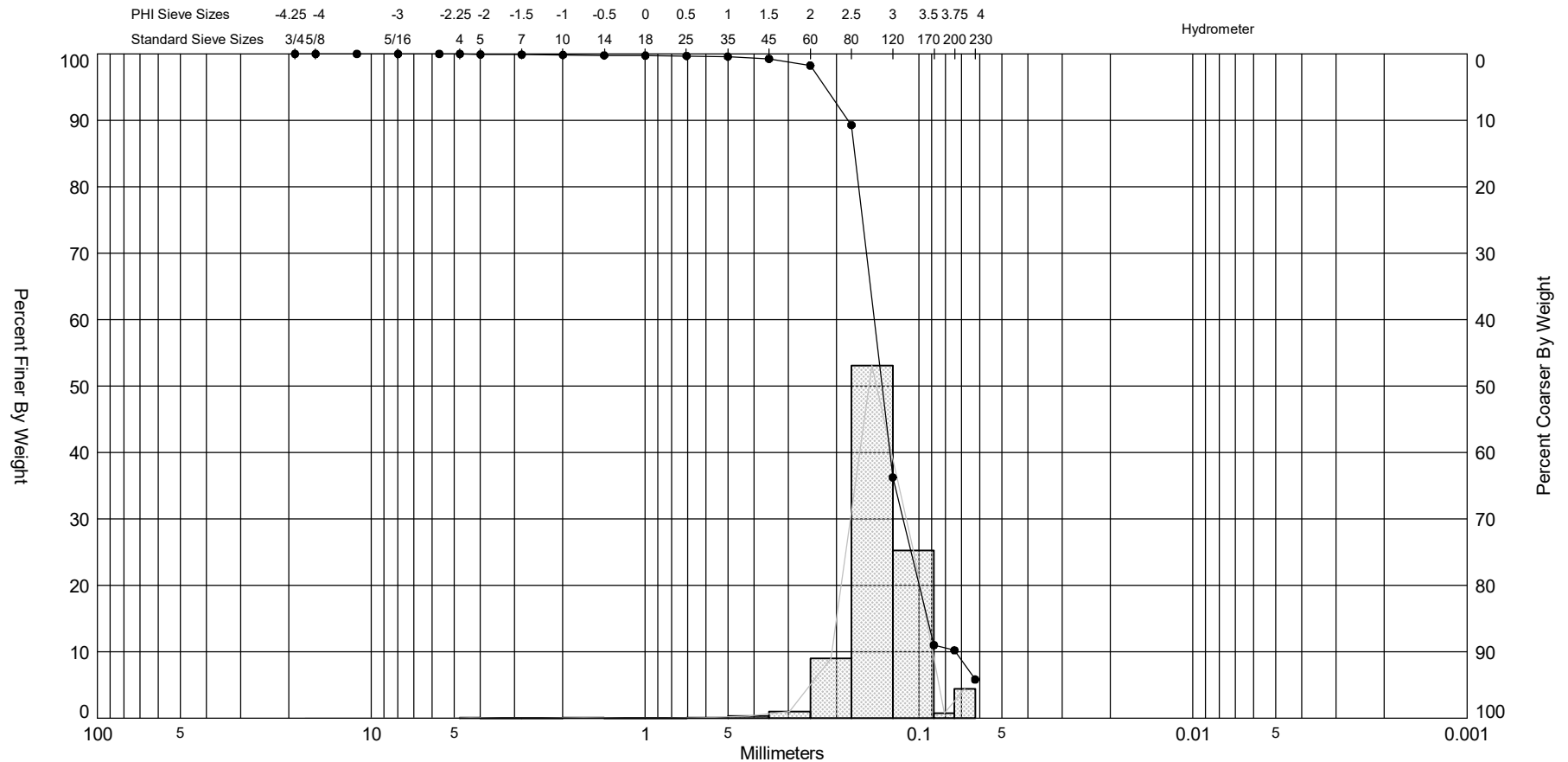
CURRITUCK_COUNTY_BEACH_2020.GPJ 7/17/20




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	
C-090 -16	—●—	-16.1	SP-SM	#200 - 5.30 #230 - 3.82			2.97	2.93	-4.76	45.53	0.52	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	07-07-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,942,703
												Northing (Y, ft):	947,968
												Horizontal Datum:	NAD 1983
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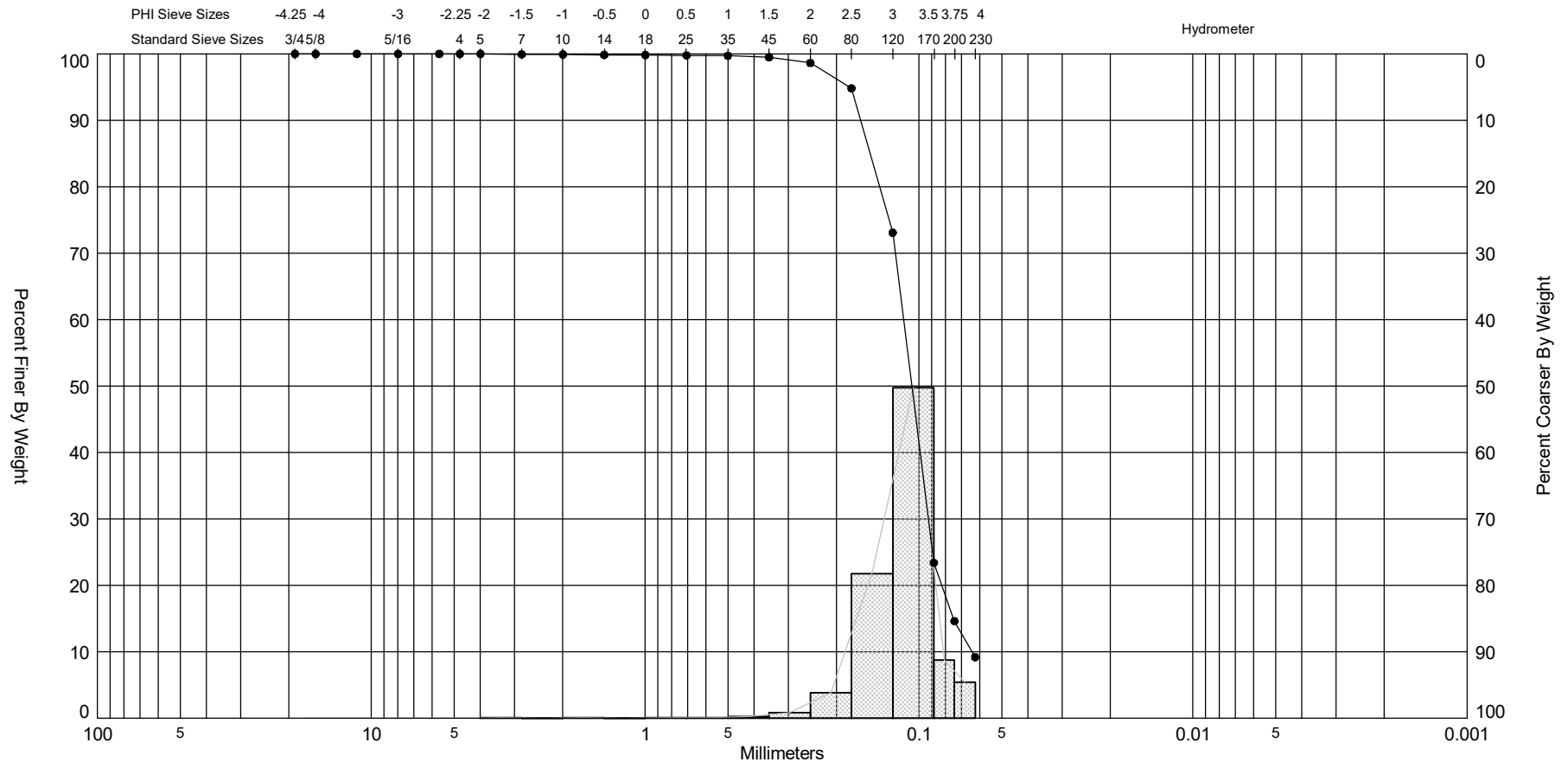
CURRITUCK COUNTY_BEACH_2020.GPJ 7/17/20




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	
C-090 -18	—●—	-18.2	SP-SM	#200 - 10.21 #230 - 5.81			2.87	2.87	-2.21	24.09	0.46	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	07-07-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,942,847
												Northing (Y, ft):	948,012
												Horizontal Datum:	NAD 1983
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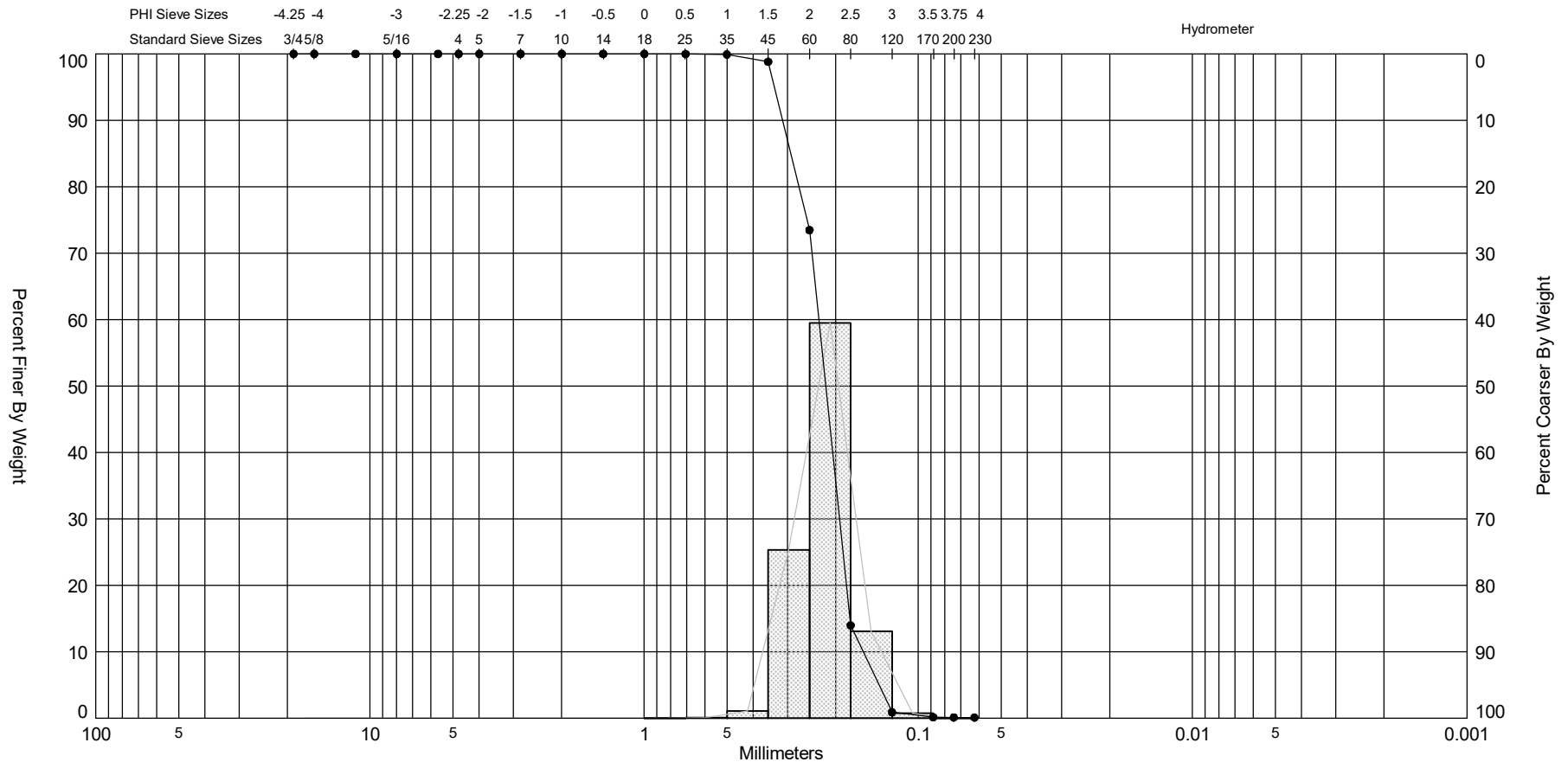
CURRITUCK_COUNTY_BEACH_2020.GPJ 7/17/20




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	
C-090 -20	—●—	-20.2	SM	#200 - 14.62 #230 - 9.19			3.23	3.13	-2.51	21.75	0.45	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	07-07-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,943,039
												Northing (Y, ft):	948,071
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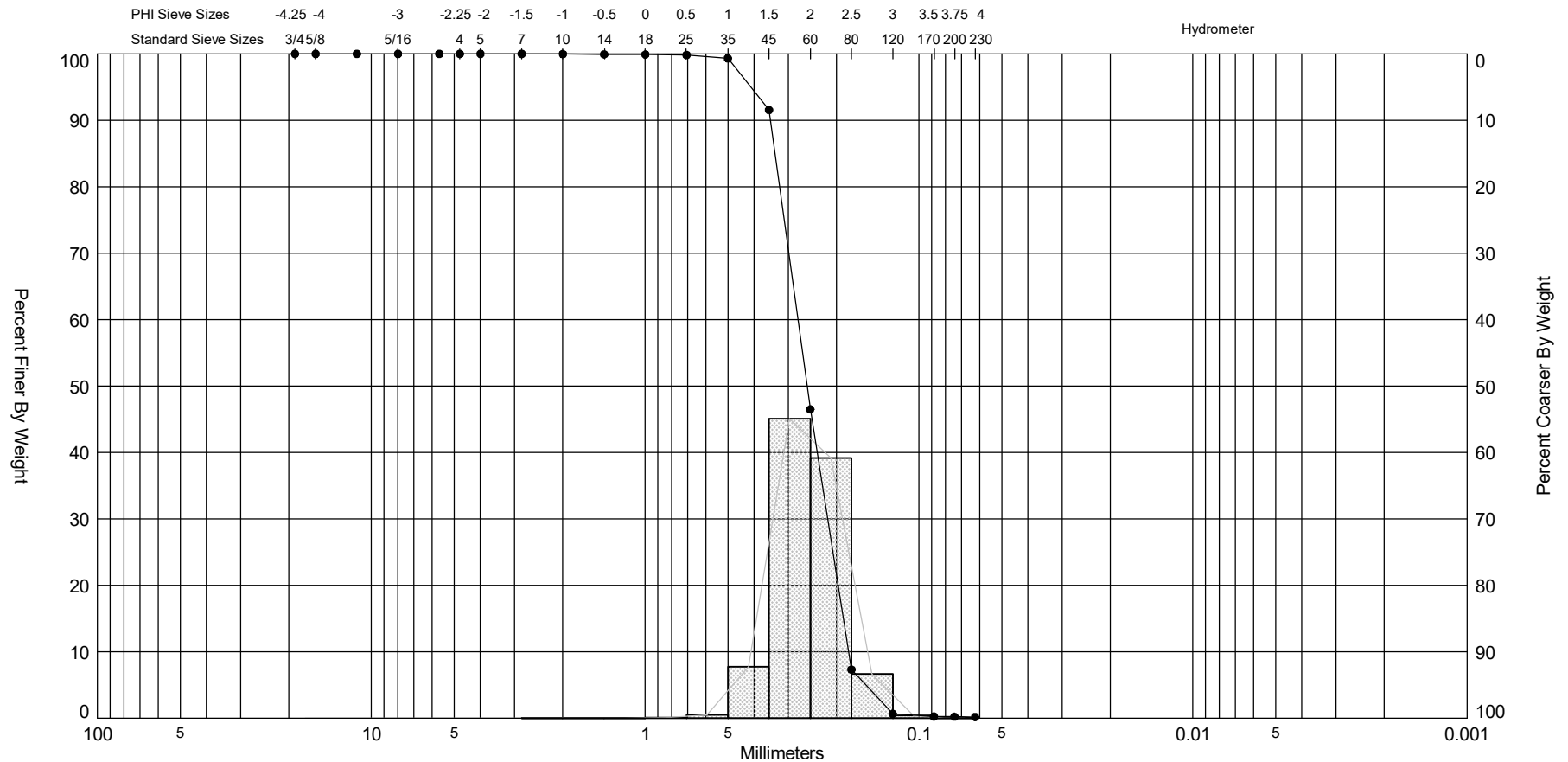
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-105 Dune	—●—	15.8	SP	#200 - 0.11 #230 - 0.10			2.2	2.18	0.04	3.72	0.34	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-05-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,946,131
												Northing (Y, ft):	933,361
												Horizontal Datum:	NAD 1983
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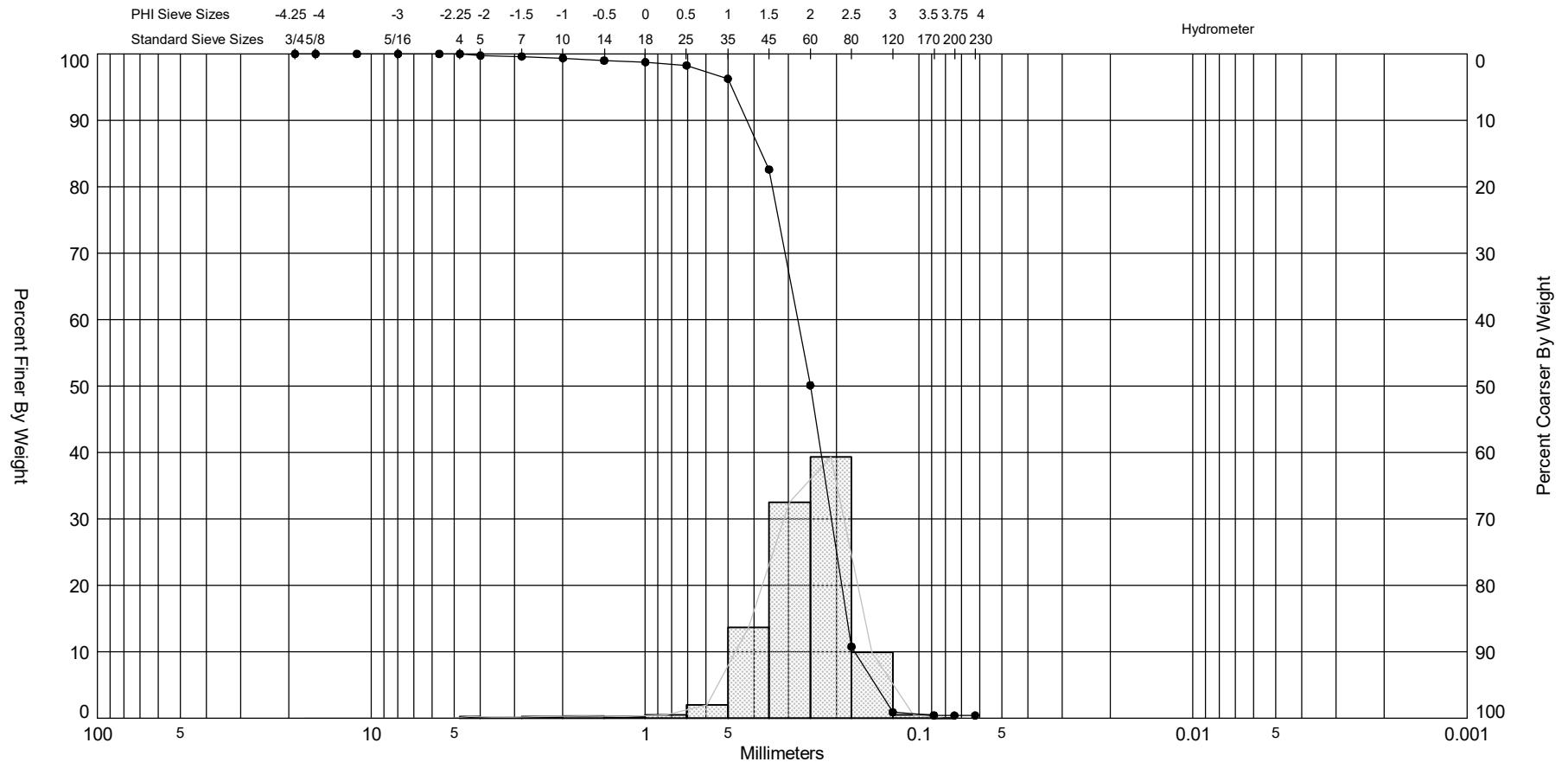
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-105 Dune Toe	—●—	8.9	SP	#200 - 0.21 #230 - 0.19			1.96	1.97	-0.24	5.47	0.4	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-05-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,946,149
												Northing (Y, ft):	933,365
												Horizontal Datum:	NAD 1983
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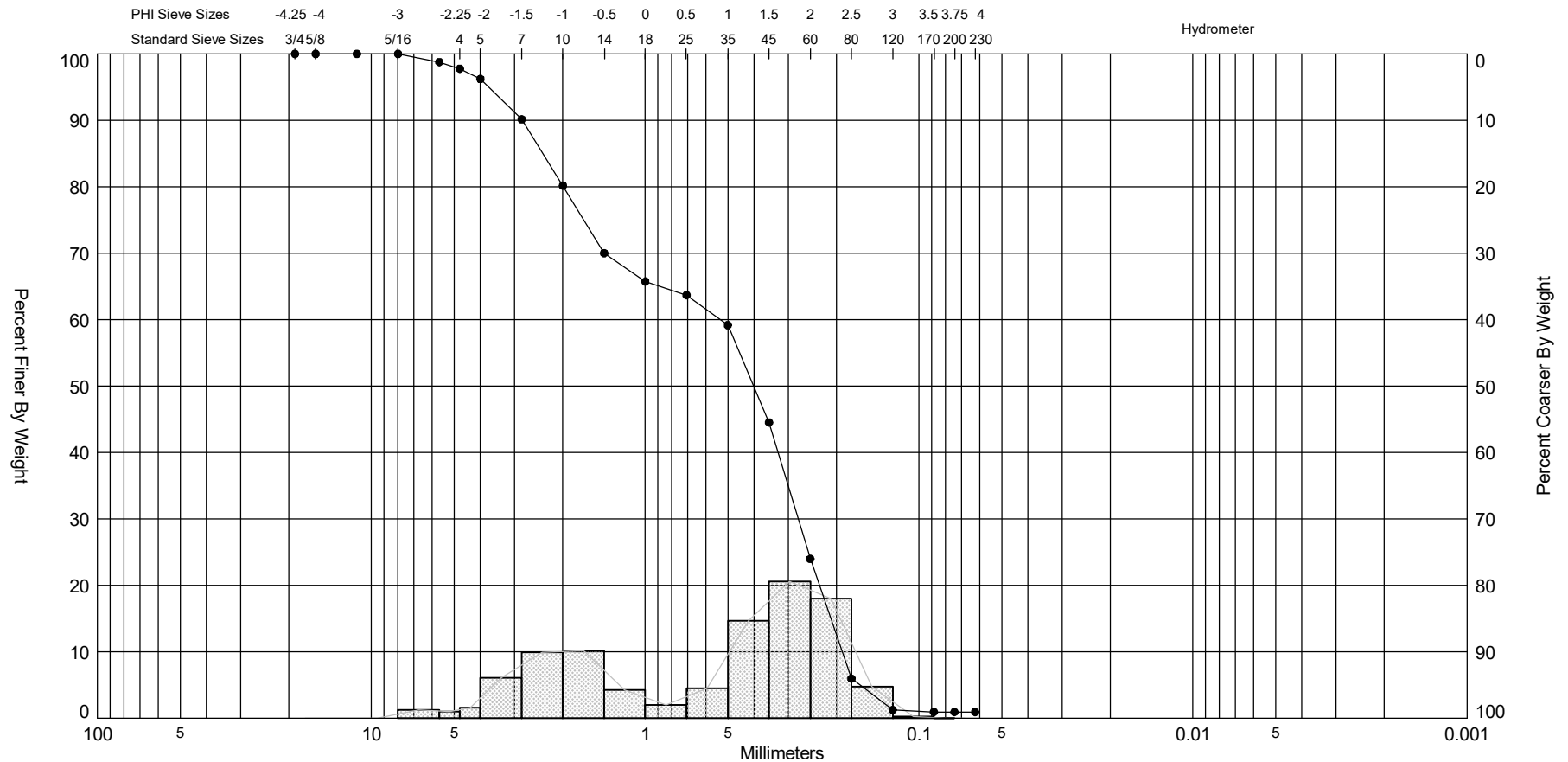
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-105 Mid-Berm	—●—	4.8	SP	#200 - 0.40 #230 - 0.40			2	1.92	-2.01	12.65	0.59	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-05-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,946,193
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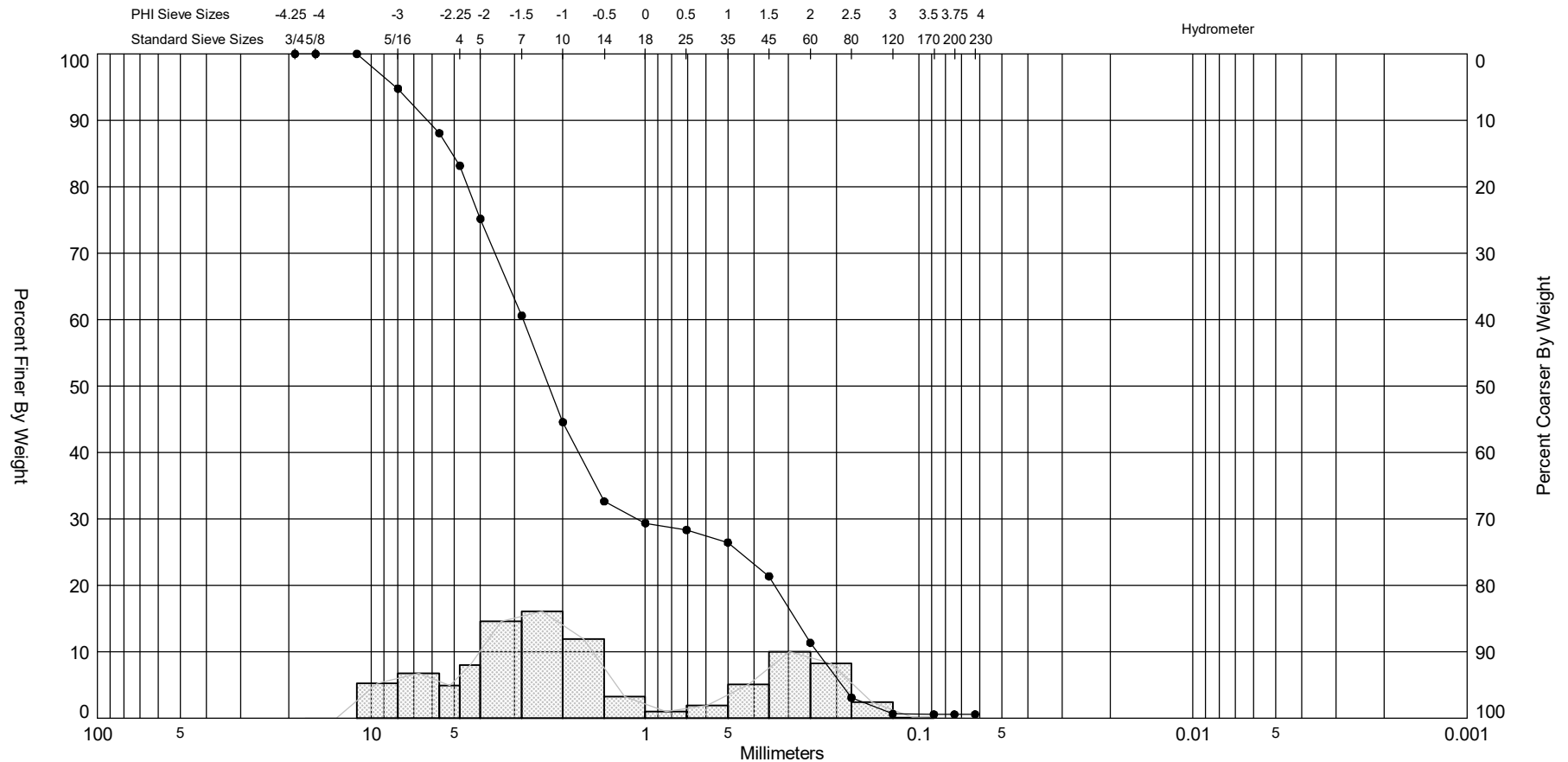
CURRITUCK COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-105 MHW	—●—	1.2	SW	#200 - 0.93 #230 - 0.93			1.31	0.73	-0.55	1.93	1.52	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-05-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,946,245
												Northing (Y, ft):	933,398
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

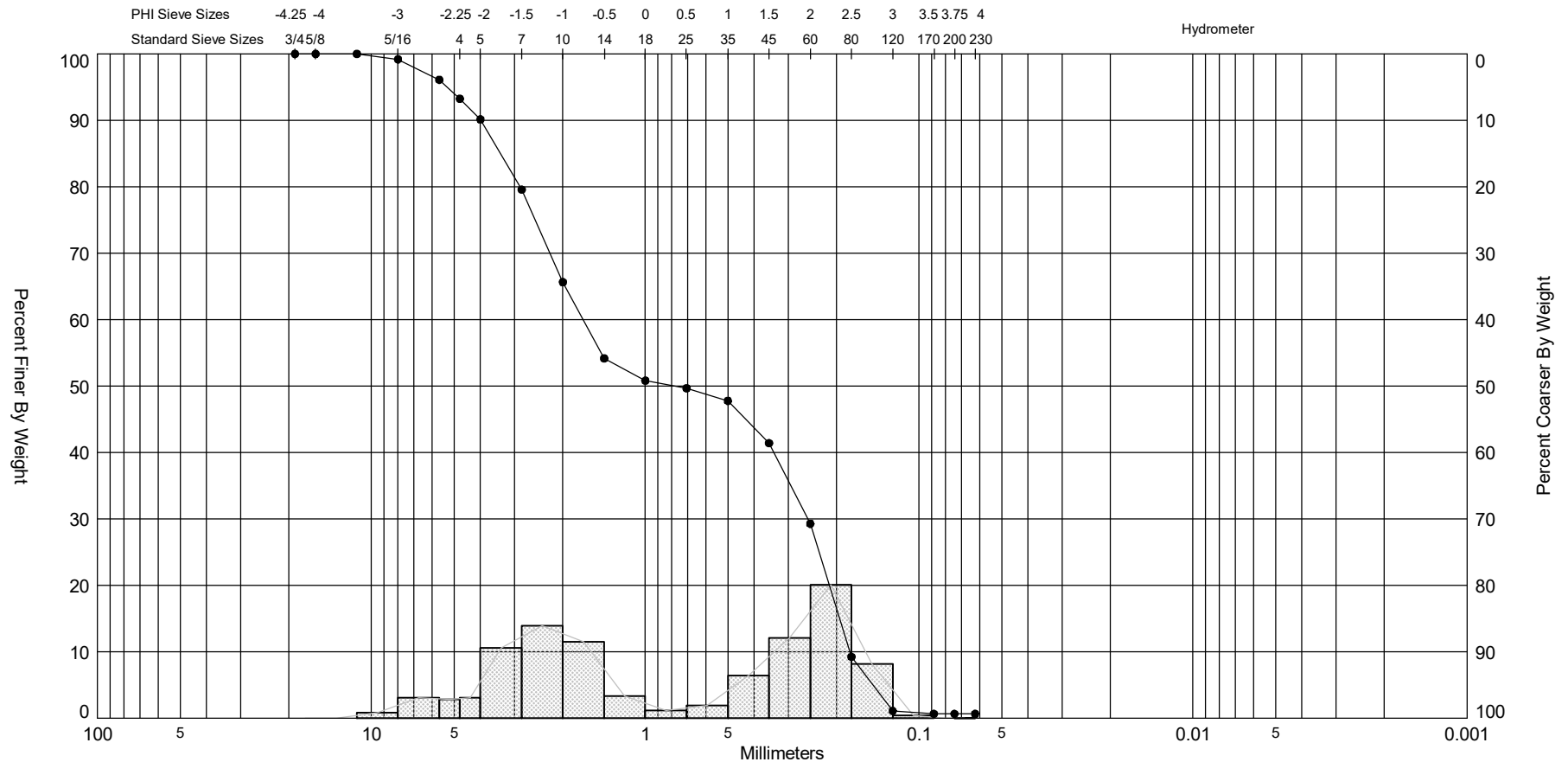
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-105 MT	—●—	-0.4	SW	#200 - 0.57 #230 - 0.57				-0.69	0.55	2.04	1.74	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-05-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,946,272
												Northing (Y, ft):	933,408
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

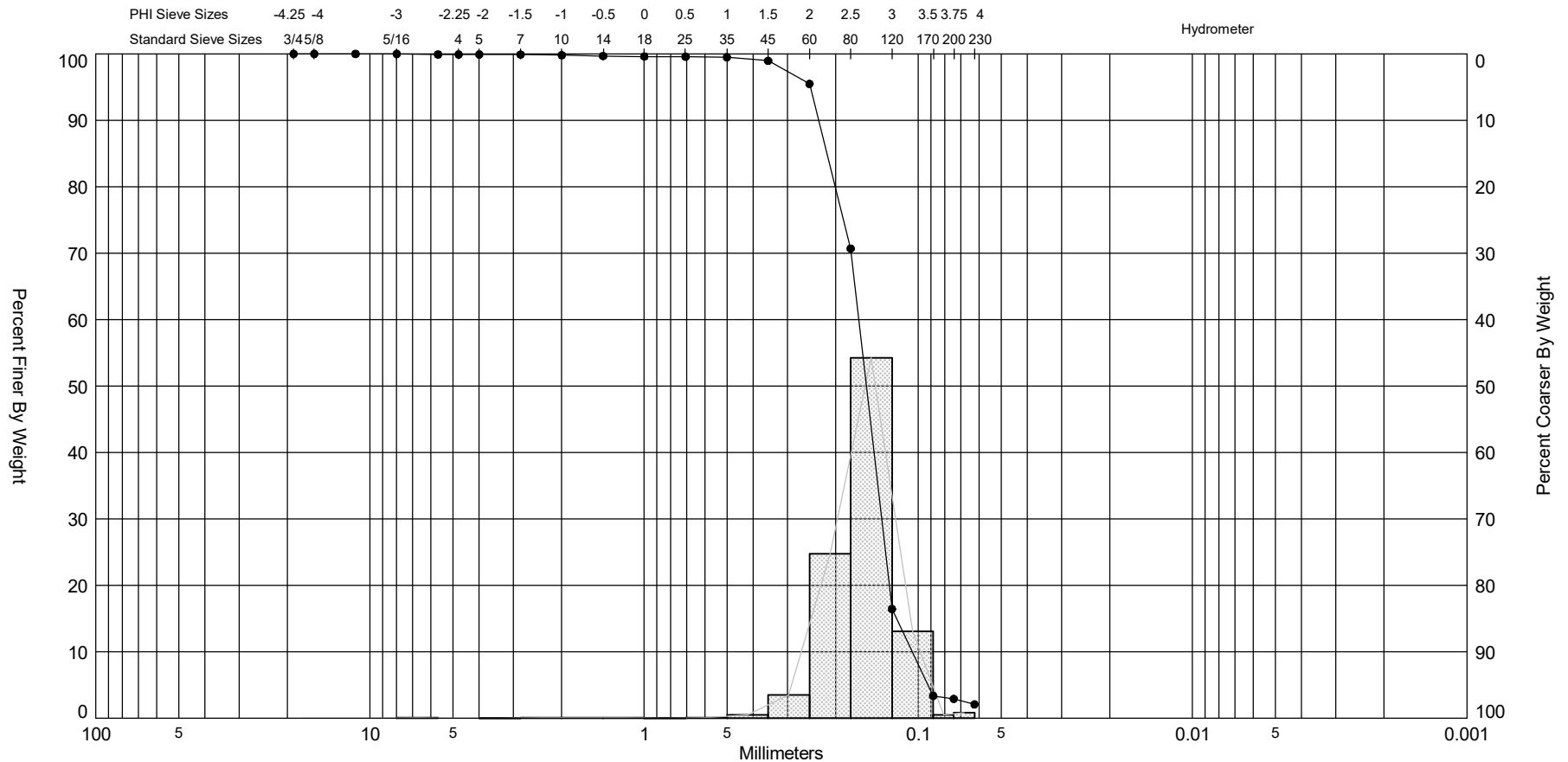
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-105 MLW	—●—	-2.3	SW	#200 - 0.65 #230 - 0.64			0.36	0.3	-0.1	1.47	1.82	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-05-20
Depths and elevations based on measured values												Analyzed By:	SF
						APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102						Easting (X, ft):	2,946,301
												Northing (Y, ft):	933,425
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

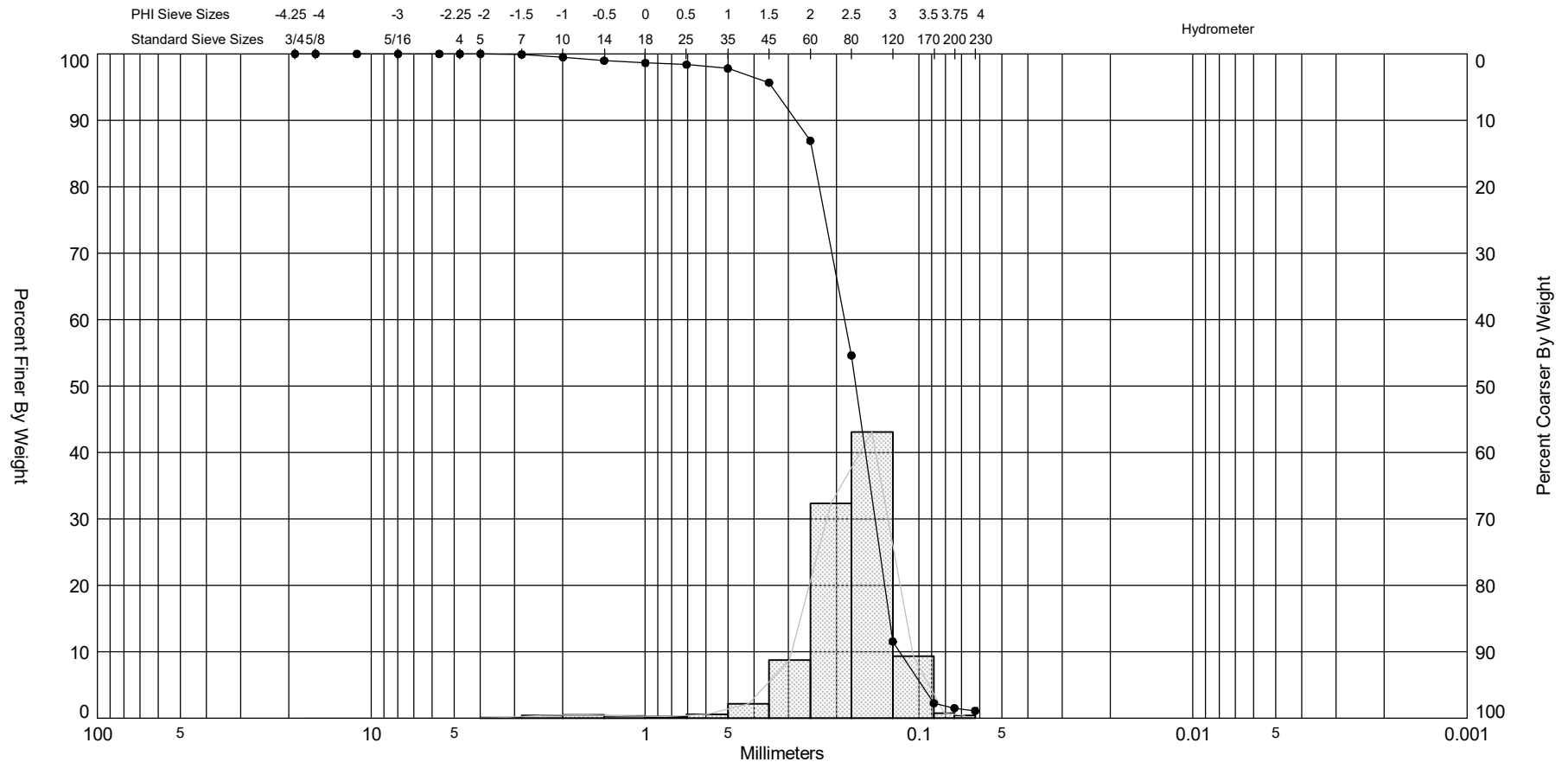
CURRITUCK COUNTY_BEACH_2020.GPJ 7/17/20




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	
C-105 Trough	—●—	-13.9	SP	#200 - 2.90 #230 - 2.07			2.69	2.64	-2.87	28.65	0.47	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	07-07-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,947,079
												Northing (Y, ft):	933,708
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

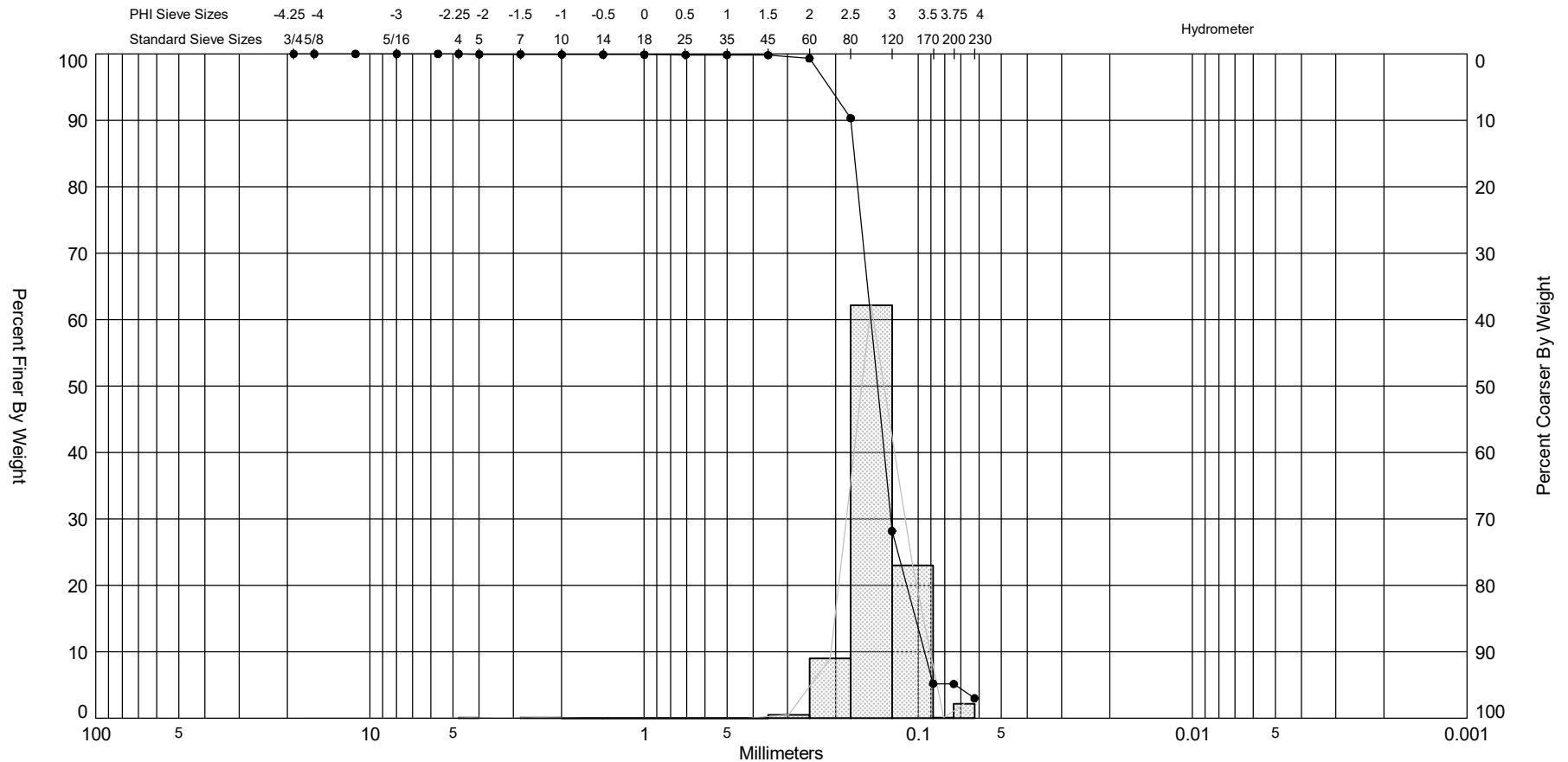
CURRITUCK COUNTY_BEACH_2020.GPJ 7/17/20



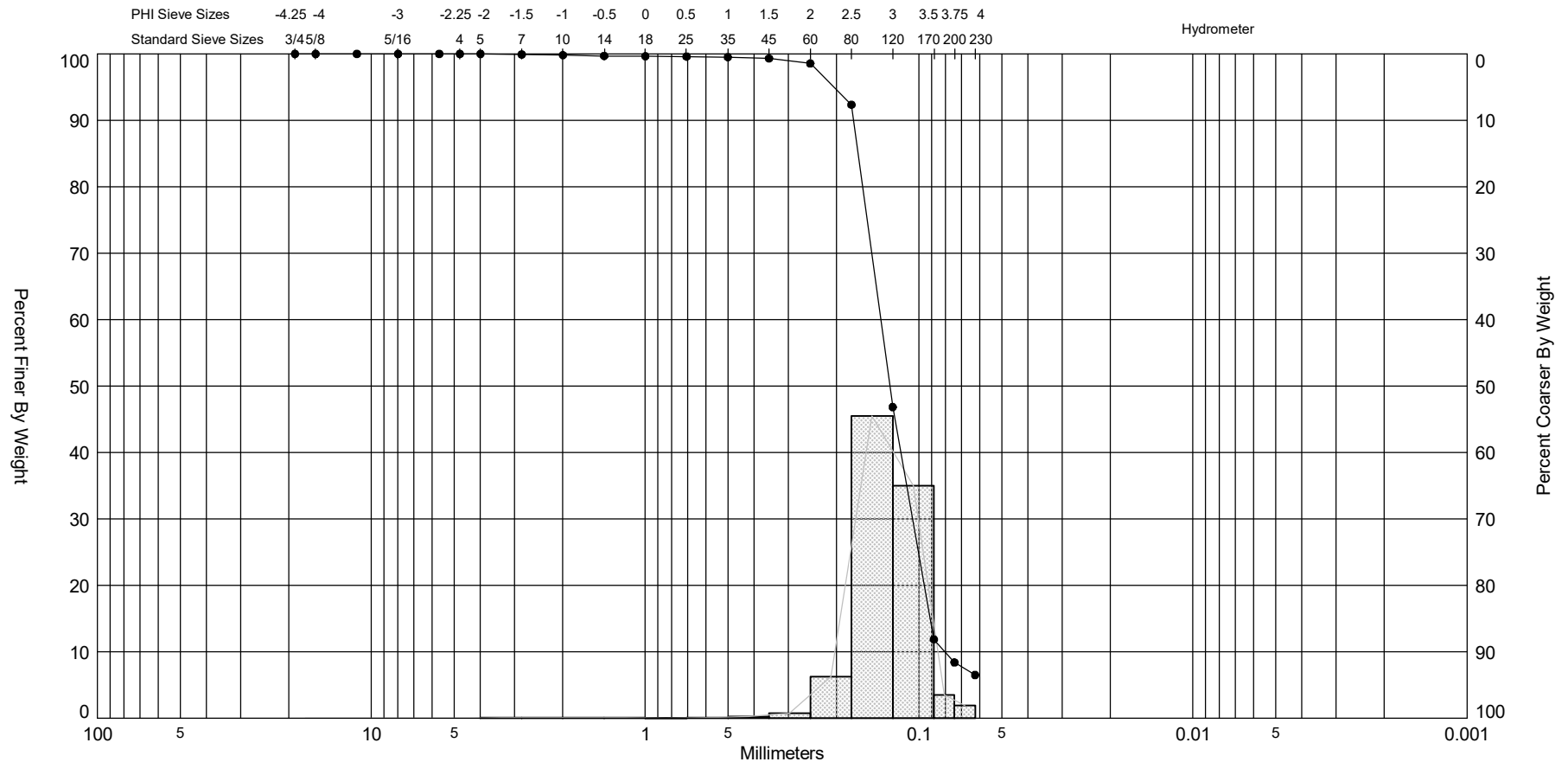
Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
C-105 -12	—●—	-11.9	SP	#200 - 1.51 #230 - 1.11			2.55	2.46	-2.37	13.83	0.62	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	07-09-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,947,171
												Northing (Y, ft):	933,735
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88


CURRITUCK_COUNTY_BEACH_2020.GPJ 7/17/20



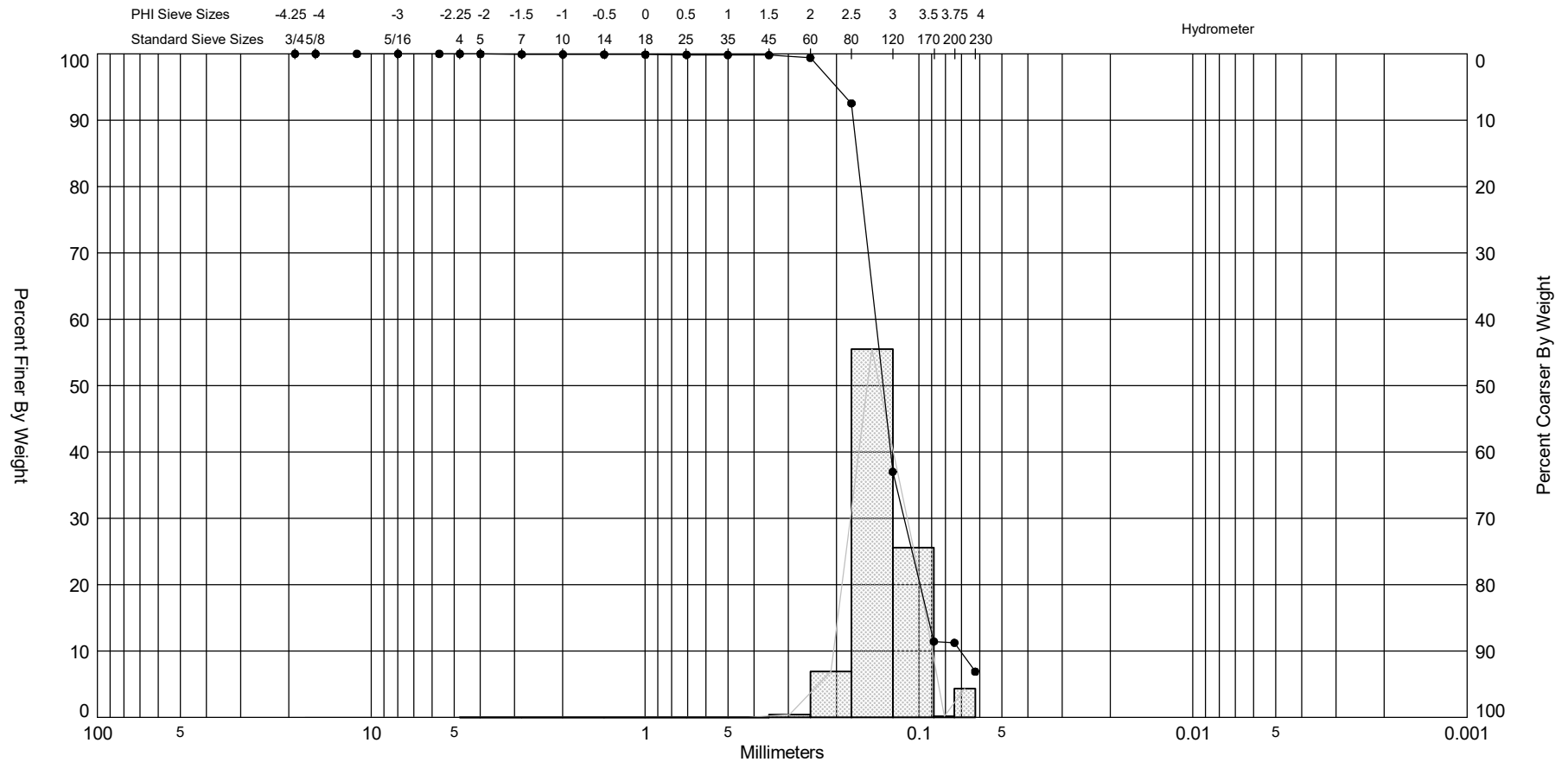
CURRITUCK COUNTY_BEACH_2020.GPJ 7/17/20




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	
C-105 -18	—●—	-17.8	SP-SM	#200 - 8.39 #230 - 6.50			2.97	2.93	-2.91	27.19	0.45	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	07-09-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,947,532
												Northing (Y, ft):	933,866
												Horizontal Datum:	NAD 1983
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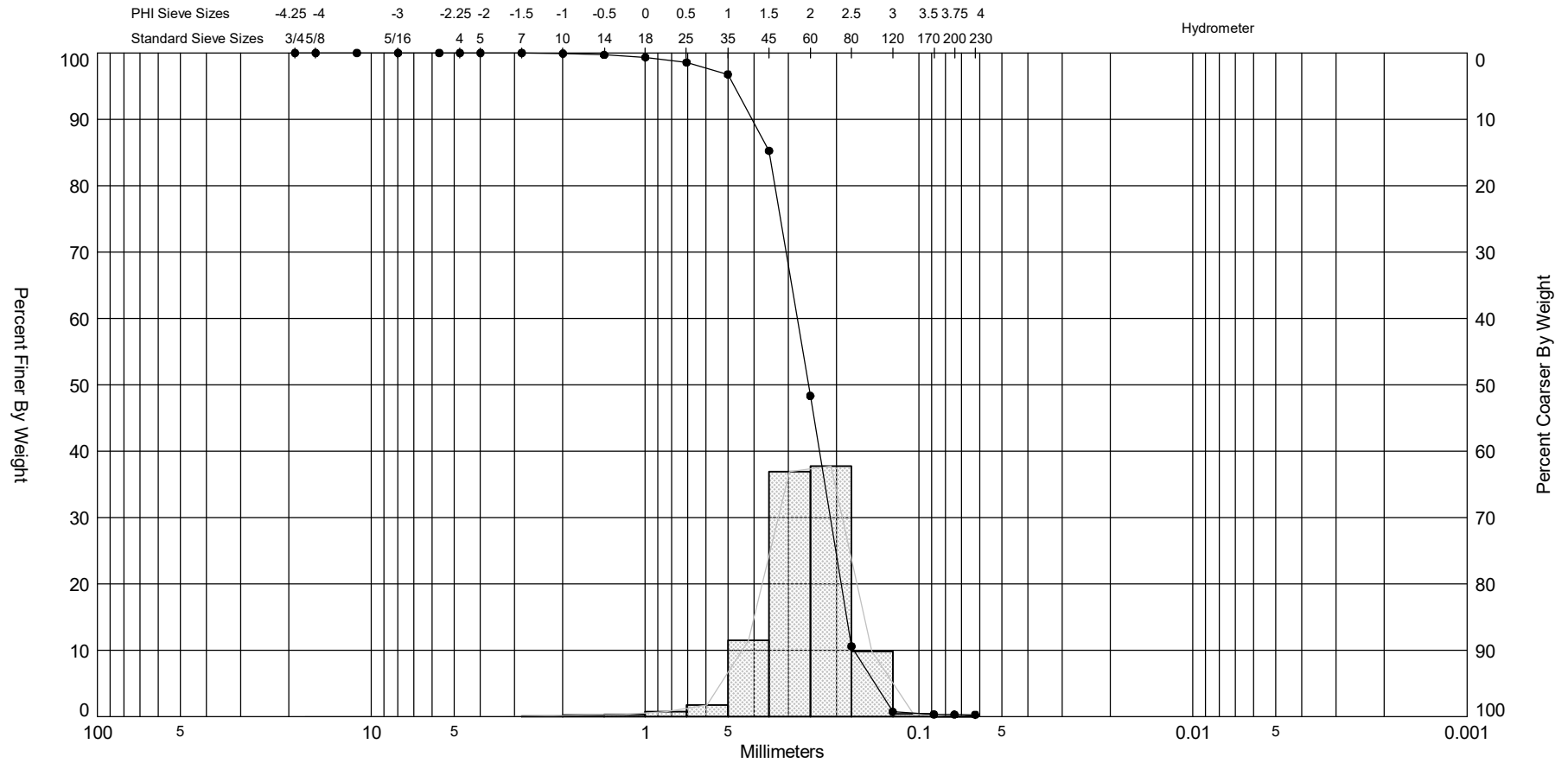
CURRITUCK_COUNTY_BEACH_2020.GPJ 7/17/20




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	
C-105 -20	—●—	-19.8	SP-SM	#200 - 11.23 #230 - 6.88			2.88	2.89	-1.56	24.93	0.4	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	07-09-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,947,700
												Northing (Y, ft):	933,927
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

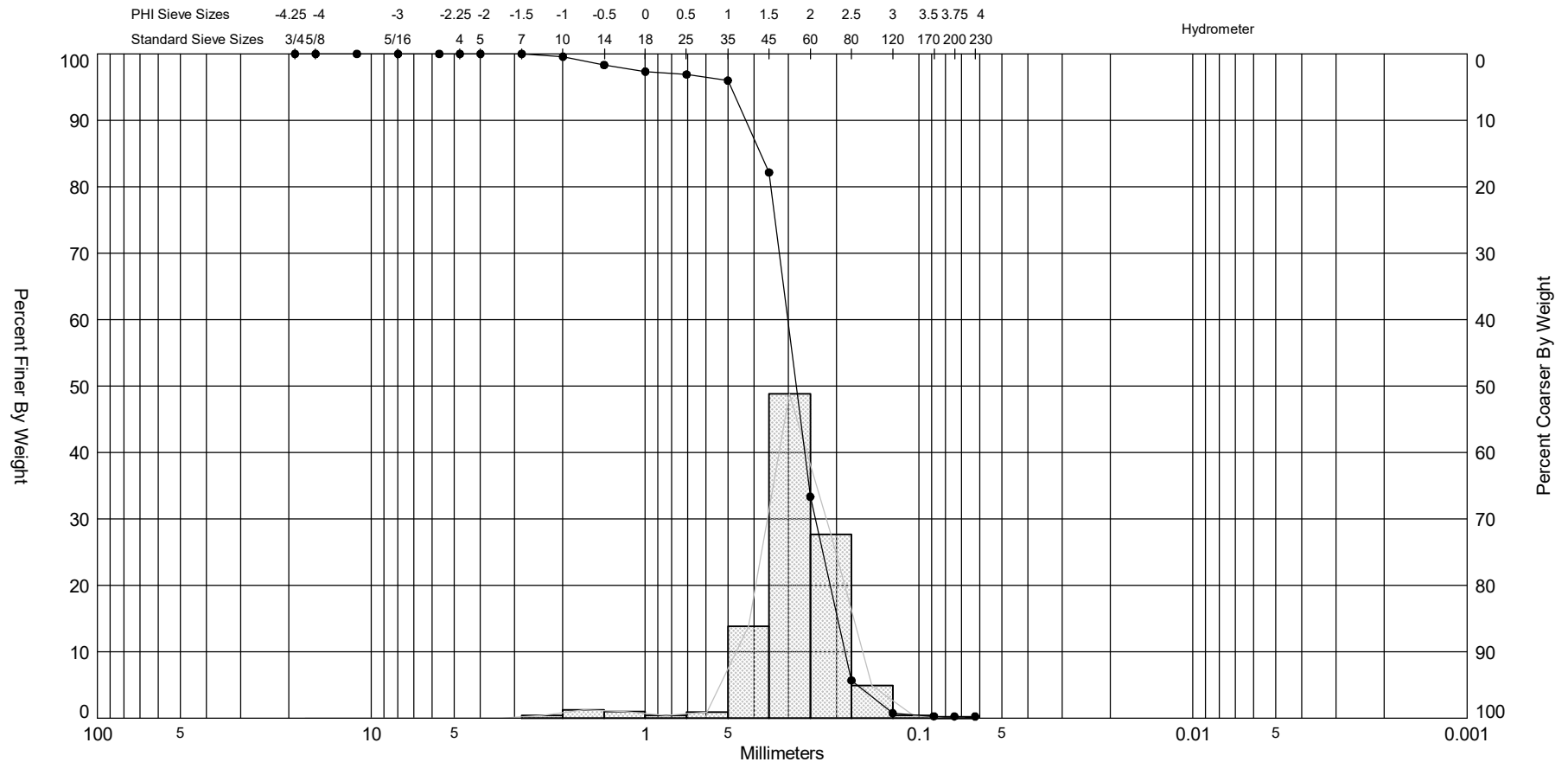
CURRITUCK COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-120 Dune	—●—	15.3	SP	#200 - 0.31 #230 - 0.29			1.98	1.94	-1.01	6.53	0.52	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-05-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,951,304
												Northing (Y, ft):	919,276
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

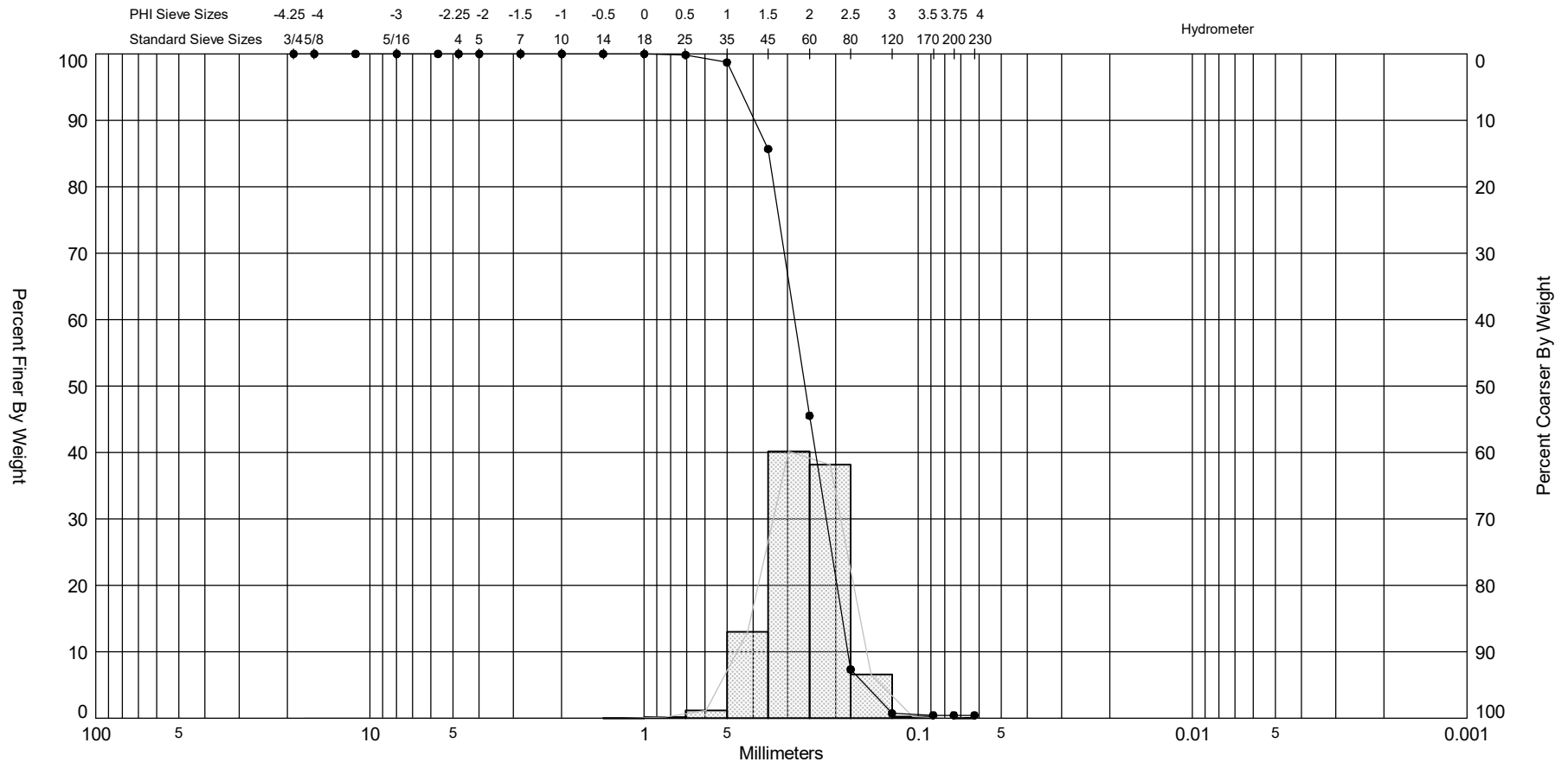
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-120 Dune Toe	—●—	7.6	SP	#200 - 0.27 #230 - 0.26			1.83	1.8	-1.91	10.42	0.58	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-05-20
Depths and elevations based on measured values												Analyzed By:	SF
						APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102						Easting (X, ft):	2,951,319
												Northing (Y, ft):	919,283
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

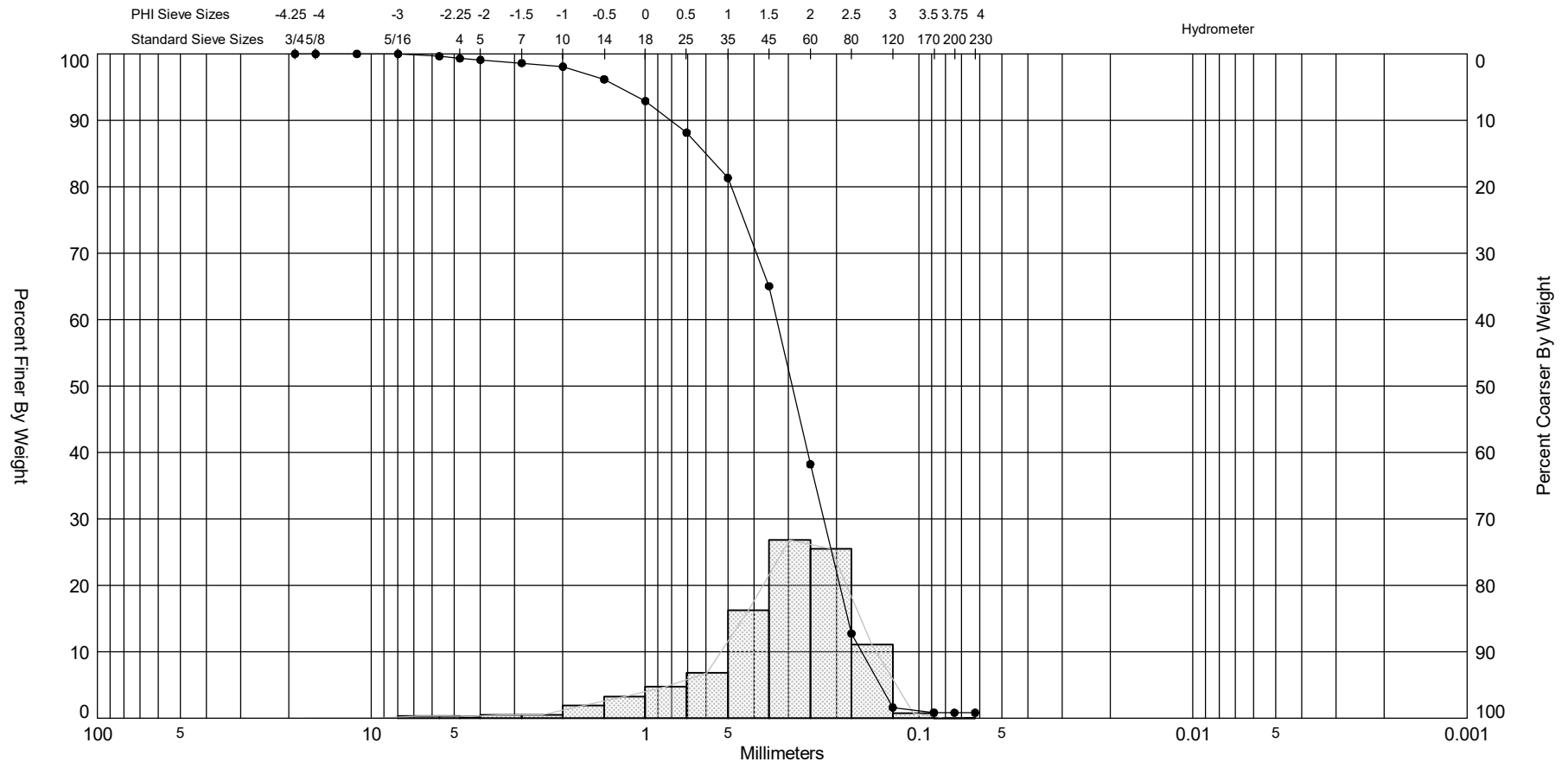
CURRITUCK COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-120 Mid-Berm	—●—	3.6	SP	#200 - 0.45 #230 - 0.44			1.94	1.93	-0.21	3.26	0.43	Project Name:	Currituck Beach Monitoring 2020
Comments:											Analysis Date:	06-08-20	
Depths and elevations based on measured values											Analyzed By:	SF	
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,951,360
												Northing (Y, ft):	919,297
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

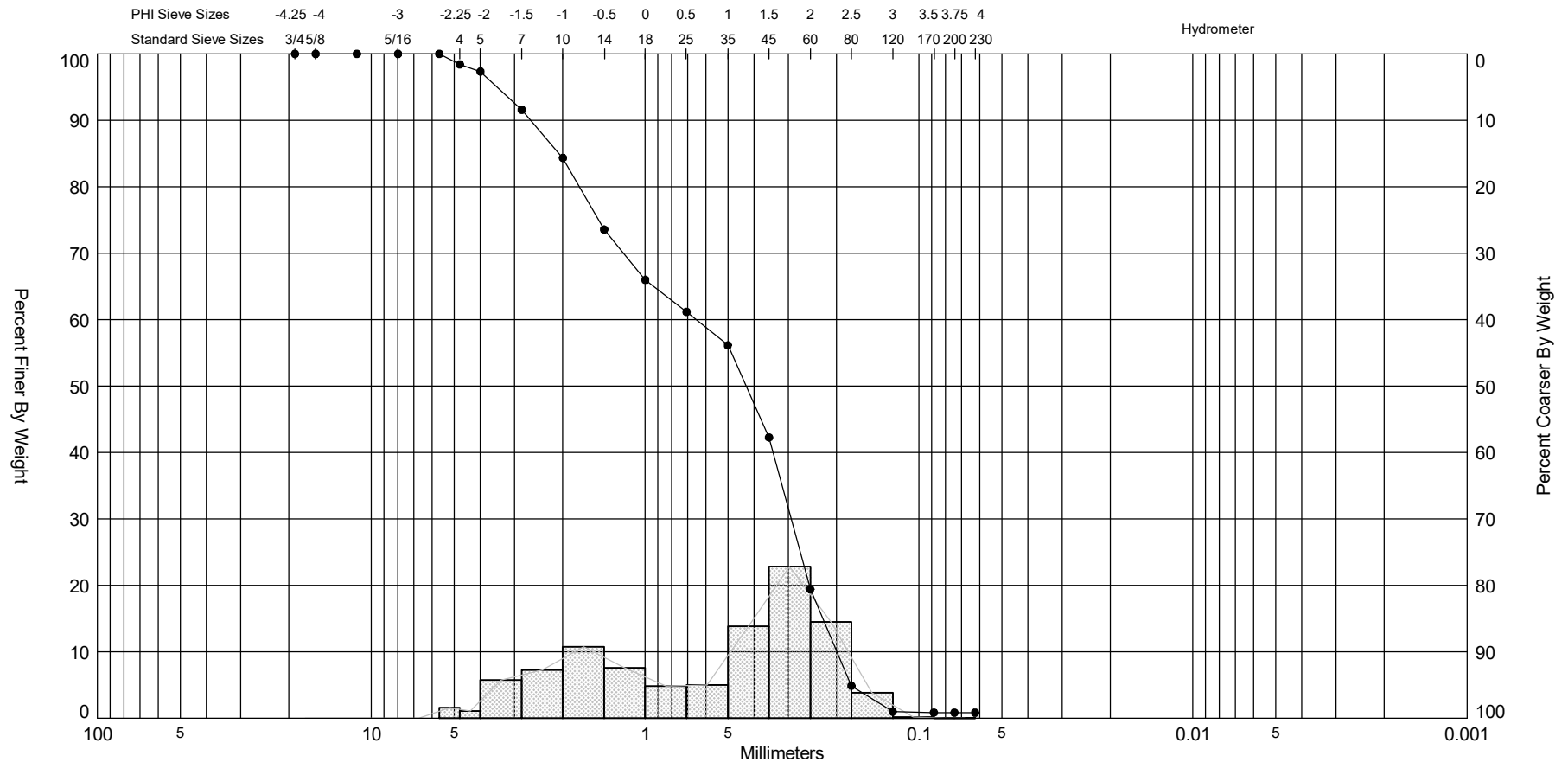
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-120 MHW	—●—	1.2	SW	#200 - 0.82 #230 - 0.81			1.78	1.59	-1.44	5.96	0.95	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-08-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,951,399
												Northing (Y, ft):	919,311
												Horizontal Datum:	NAD 1983
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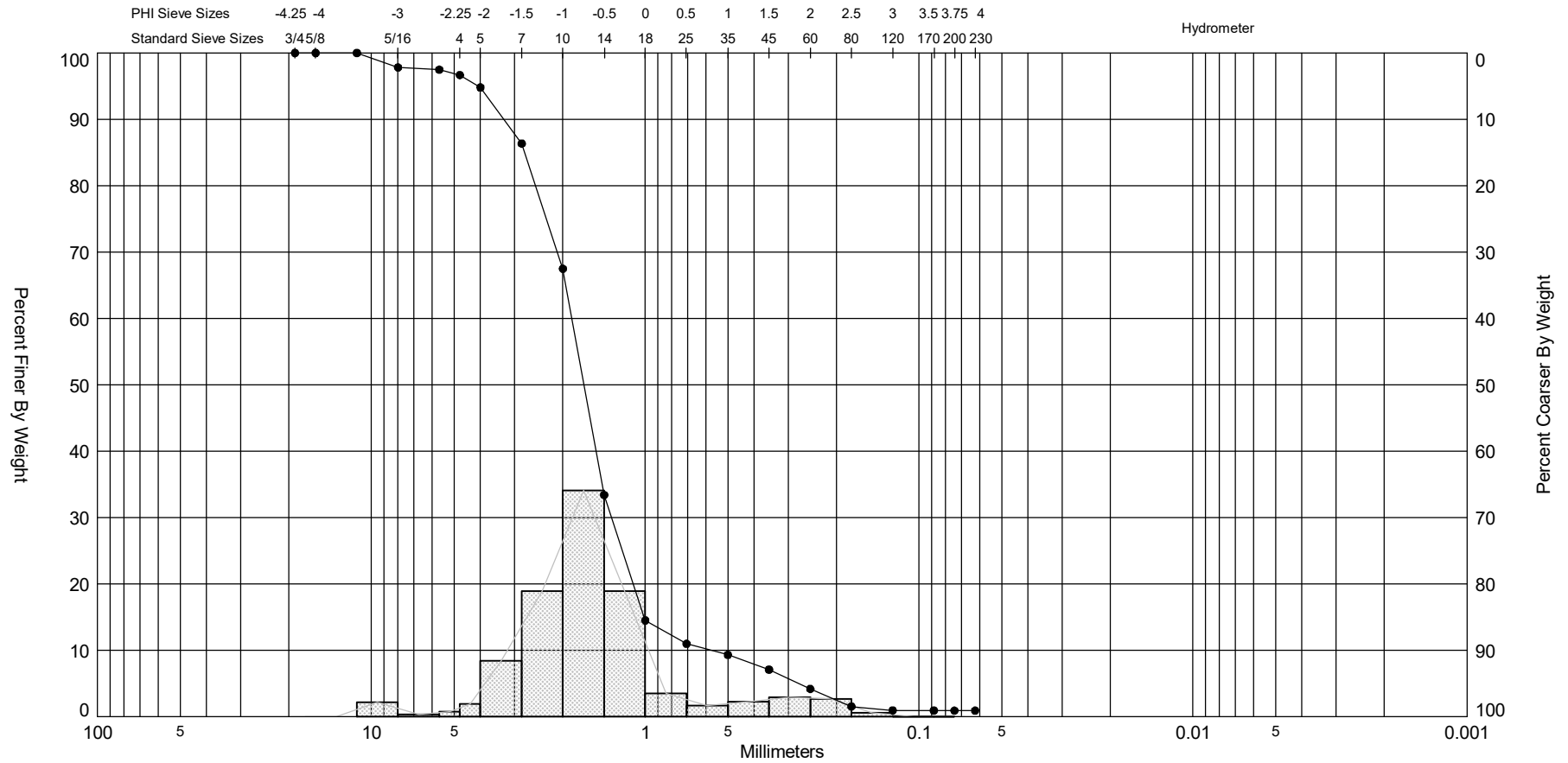
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-120 MT	—●—	-0.4	SW	#200 - 0.84 #230 - 0.83			1.22	0.72	-0.5	1.96	1.41	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-08-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,951,466
												Northing (Y, ft):	919,335
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

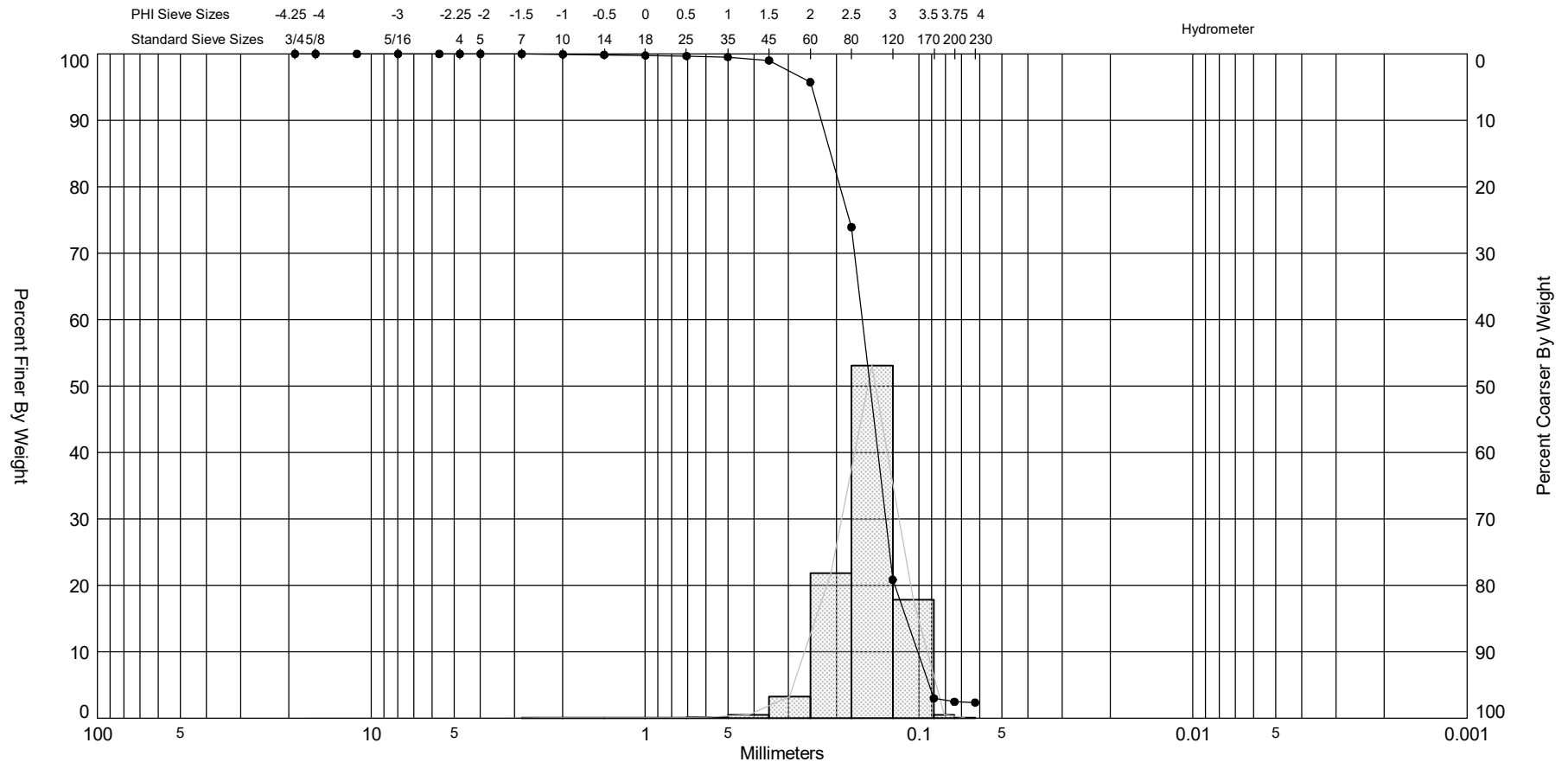
CURRITUCK COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-120 MLW	—●—	-2.2	SW	#200 - 0.90 #230 - 0.90				-0.65	0.84	5.06	1.02	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-08-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,951,513
												Northing (Y, ft):	919,353
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

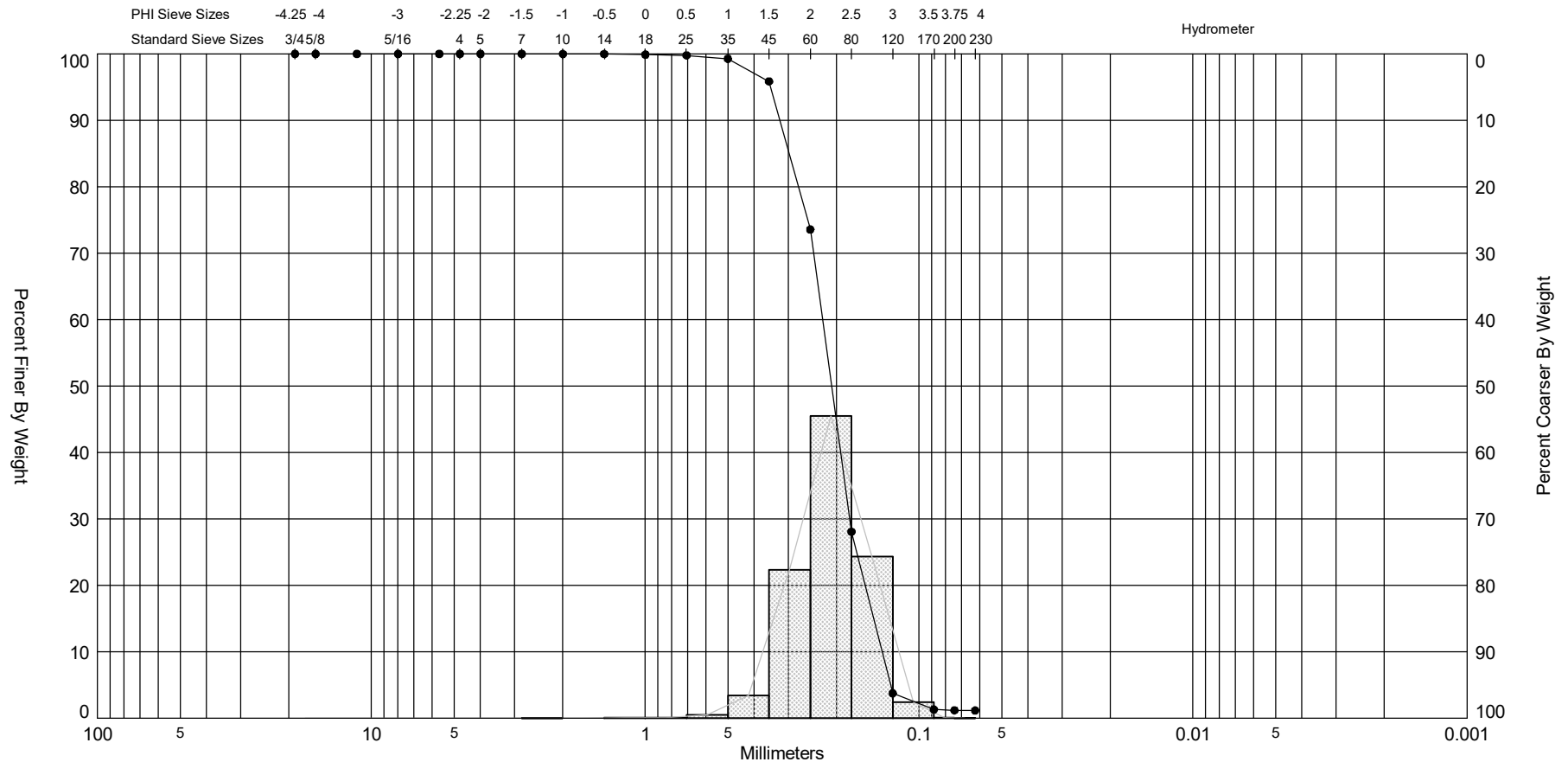
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-120 Trough	—●—	-12.5	SP	#200 - 2.46 #230 - 2.35			2.73	2.68	-1.65	12.72	0.43	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-08-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,951,928
												Northing (Y, ft):	919,503
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

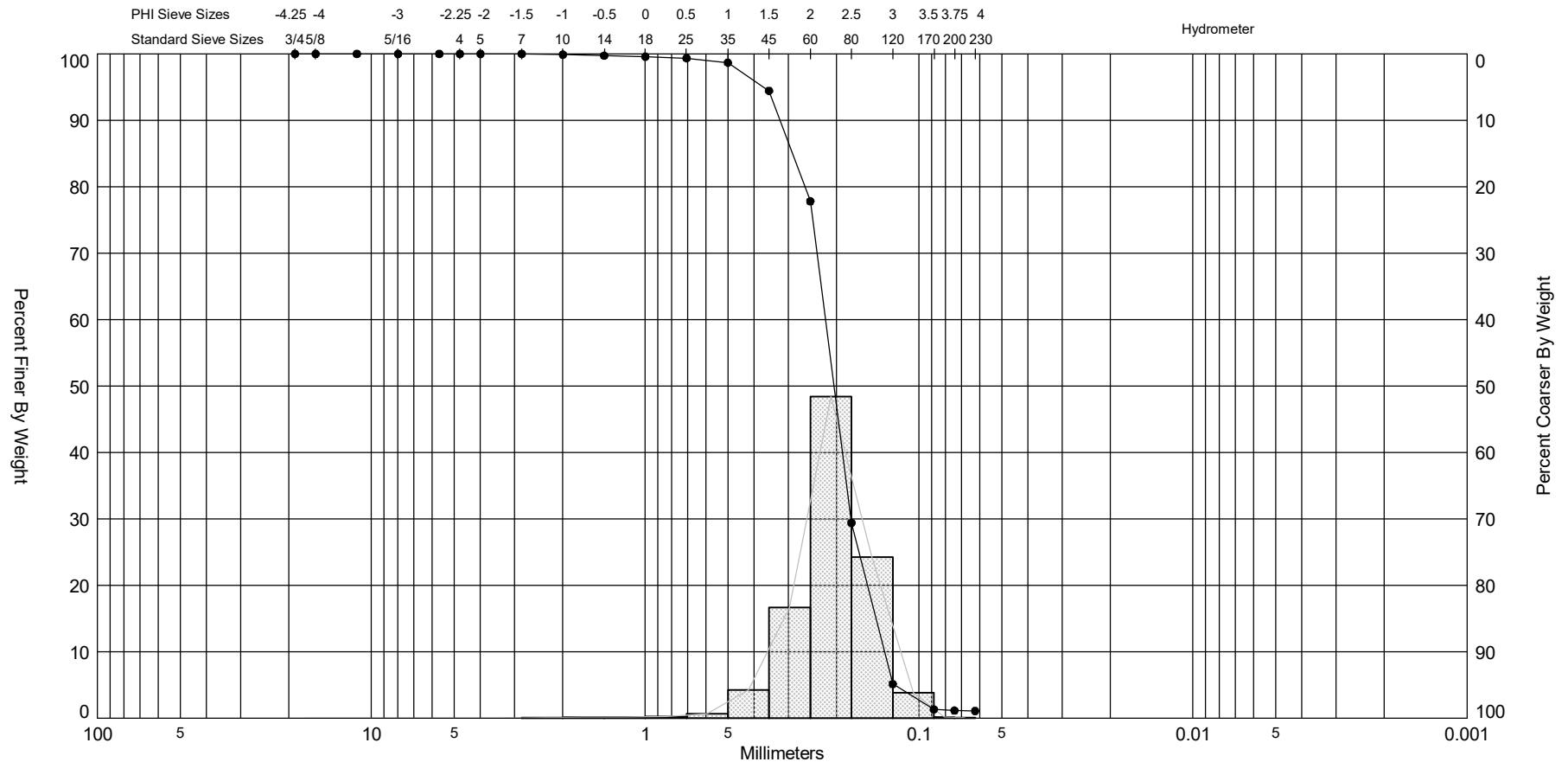
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-120 Bar	—●—	-10.5	SP	#200 - 1.19 #230 - 1.15			2.26	2.24	-0.48	4.85	0.45	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-08-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,952,183
												Northing (Y, ft):	919,561
												Horizontal Datum:	NAD 1983
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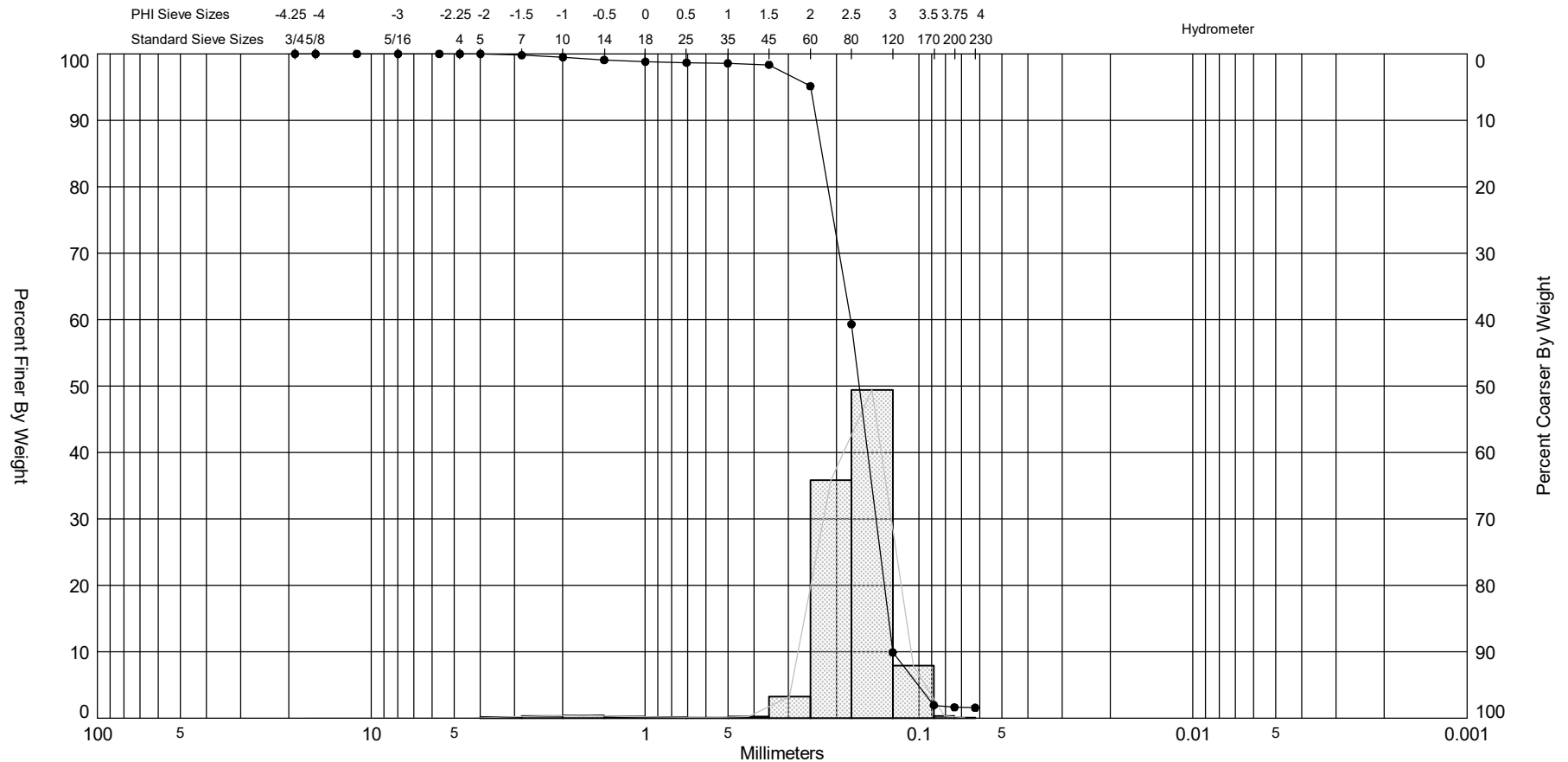
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-120 -12	—●—	-12.3	SP	#200 - 1.14 #230 - 1.09			2.29	2.26	-1.19	8.66	0.5	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-08-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,952,299
												Northing (Y, ft):	919,638
												Horizontal Datum:	NAD 1983
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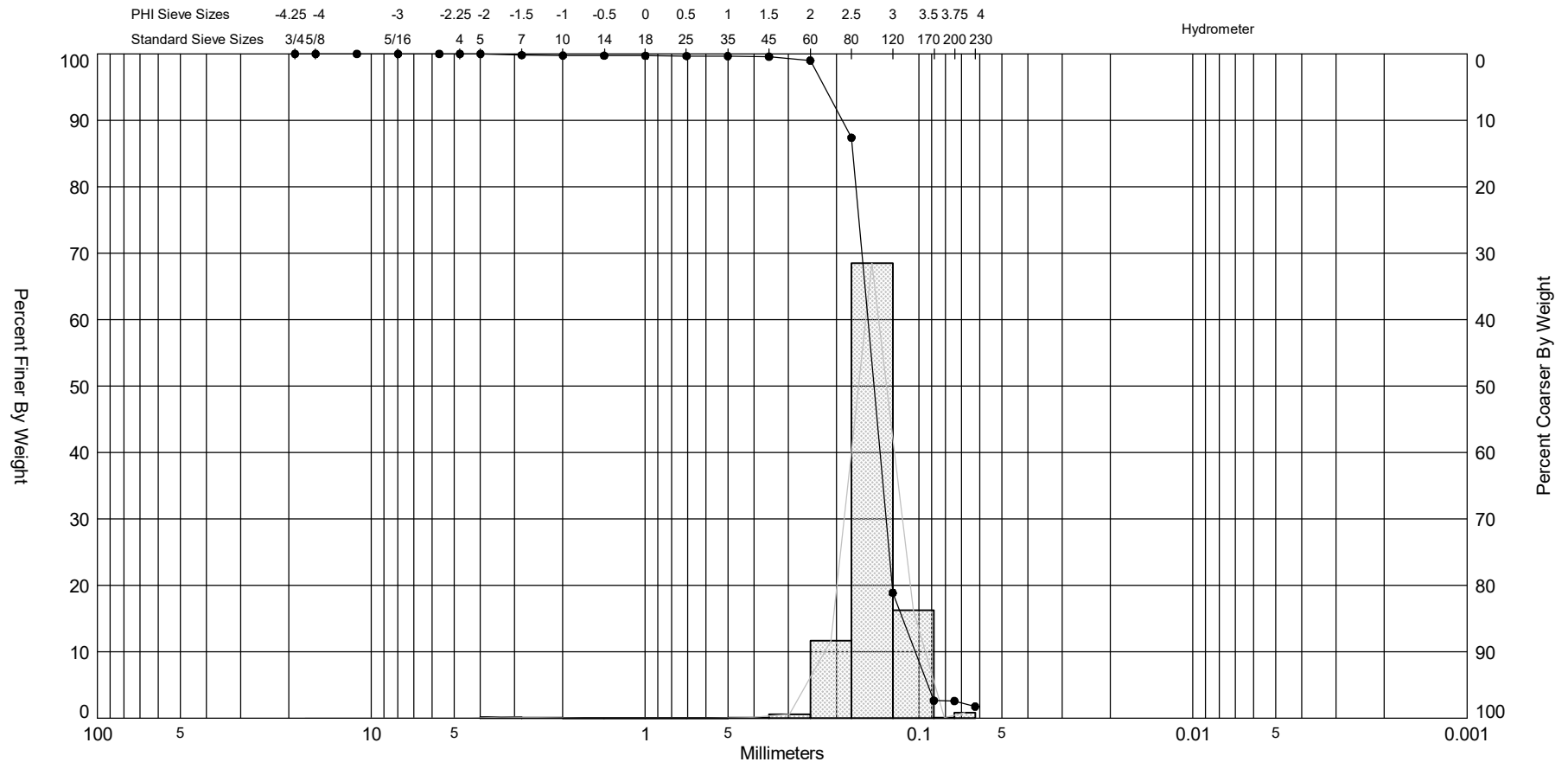
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-120 -14	—●—	-14.2	SP	#200 - 1.63 #230 - 1.55			2.59	2.53	-3.6	25.93	0.53	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-08-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,952,417
												Northing (Y, ft):	919,658
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

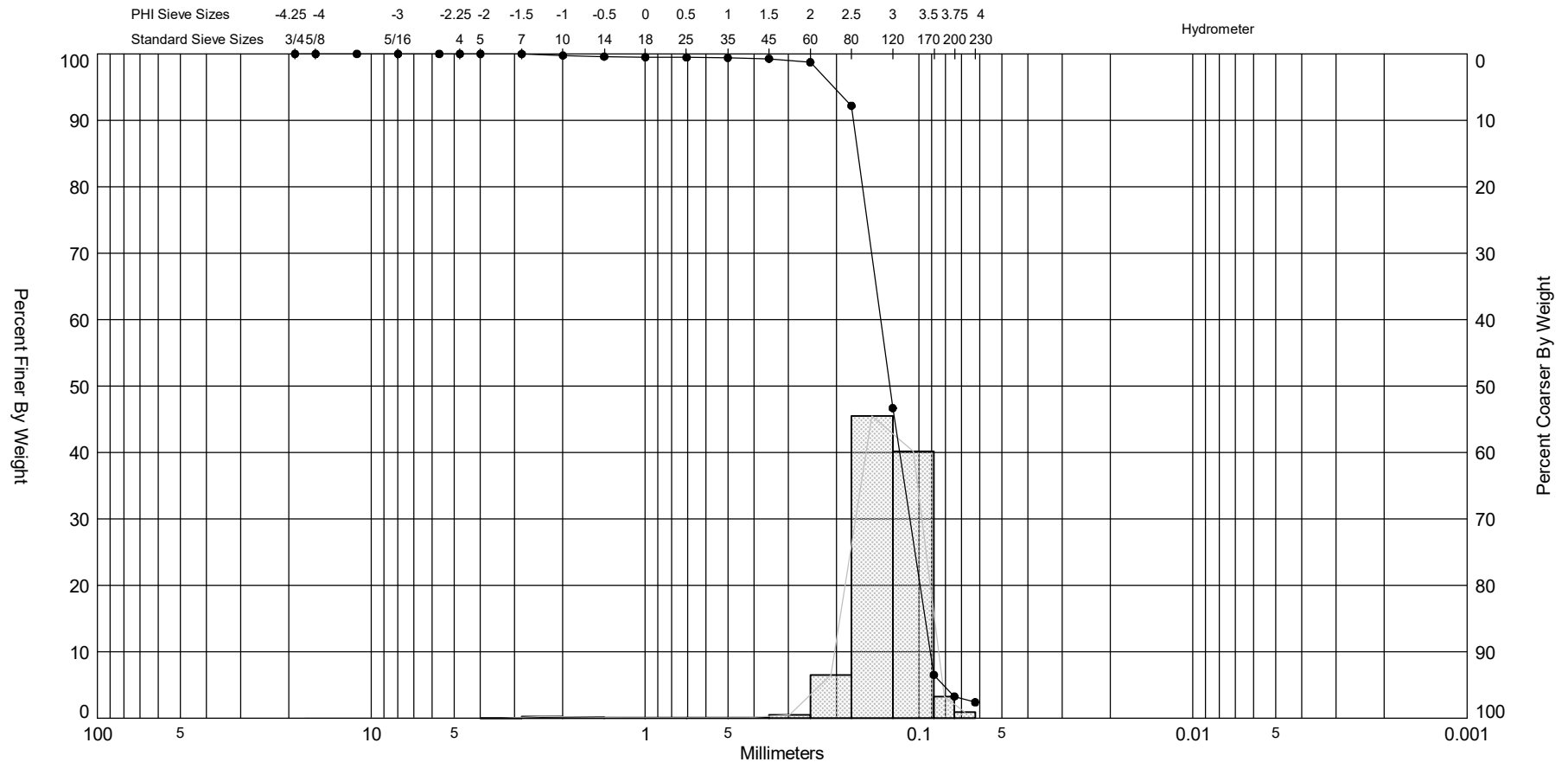
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-120 -16	—●—	-16.3	SP	#200 - 2.59 #230 - 1.74			2.77	2.76	-4.12	49.44	0.38	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-08-20
Depths and elevations based on measured values												Analyzed By:	SF
												Easting (X, ft):	2,952,502
												Northing (Y, ft):	919,712
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												Vertical Datum:	NAVD88
APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102													

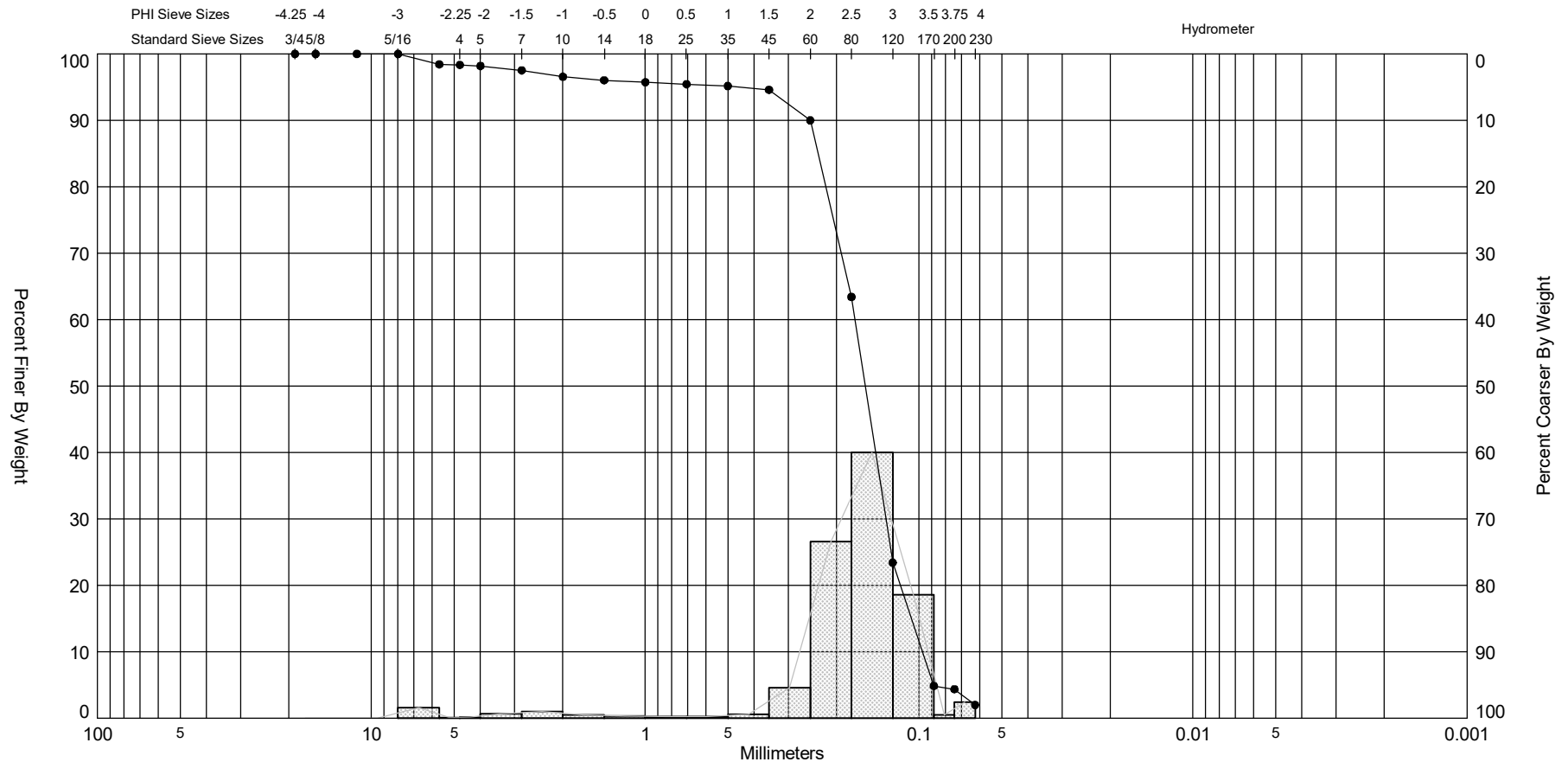
CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20




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	
C-120 -18	—●—	-18.2	SP	#200 - 3.27 #230 - 2.39			2.96	2.93	-3.43	29.99	0.45	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-08-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,952,630
												Northing (Y, ft):	919,755
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

CURRITUCK_COUNTY_BEACH_2020.GPJ 6/15/20



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	
C-120 -20	—●—	-20.3	SW	#200 - 4.37 #230 - 1.98			2.67	2.47	-3.23	15.14	1.05	Project Name:	Currituck Beach Monitoring 2020
Comments:												Analysis Date:	06-08-20
Depths and elevations based on measured values												Analyzed By:	SF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	2,952,787
												Northing (Y, ft):	919,799
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

APPENDIX 4
BEACH COMPOSITE GRANULARMETRIC REPORTS
(Digital Copy Only)

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: Currituck Beach Monitoring 2020

Sample Name: C-002 COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):	Northing (ft):	Coordinate System: North Carolina State Plane	Elevation (ft):
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USCS: SW	Munsell:	Comments: Composite
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Dry Weight (g): 99.99	Wash Weight (g): 99.99	Pan Retained (g): 1.29	Sieve Loss (%): 0.00	Fines (%): #200 - 1.87 #230 - 1.30	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.12	0.12	0.12	0.12
5/16"	-3.00	8.00	0.10	0.10	0.22	0.22
3.5	-2.50	5.66	0.10	0.10	0.32	0.32
4	-2.25	4.76	0.10	0.10	0.42	0.42
5	-2.00	4.00	0.06	0.06	0.48	0.48
7	-1.50	2.83	0.15	0.15	0.63	0.63
10	-1.00	2.00	0.15	0.15	0.78	0.78
14	-0.50	1.41	0.28	0.28	1.06	1.06
18	0.00	1.00	0.72	0.72	1.78	1.78
25	0.50	0.71	2.97	2.97	4.75	4.75
35	1.00	0.50	7.92	7.92	12.67	12.67
45	1.50	0.35	9.36	9.36	22.03	22.03
60	2.00	0.25	13.05	13.05	35.08	35.08
80	2.50	0.18	14.46	14.46	49.54	49.54
120	3.00	0.13	26.87	26.87	76.41	76.41
170	3.50	0.09	20.46	20.46	96.87	96.87
200	3.75	0.07	1.26	1.26	98.13	98.13
230	4.00	0.06	0.57	0.57	98.70	98.70

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.45	3.19	2.97	2.51	1.61	1.18	0.52
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.22	0.21	0.99	-1.3	6.2	

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: C-017 COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):	Northing (ft):	Coordinate System: North Carolina State Plane	Elevation (ft):
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USCS: SP	Munsell:	Comments: Composite
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Dry Weight (g): 99.99	Wash Weight (g): 99.99	Pan Retained (g): 1.75	Sieve Loss (%): 0.00	Fines (%): #200 - 2.49 #230 - 1.76	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.02	0.02	0.02	0.02
3.5	-2.50	5.66	0.00	0.00	0.02	0.02
4	-2.25	4.76	0.02	0.02	0.04	0.04
5	-2.00	4.00	0.05	0.05	0.09	0.09
7	-1.50	2.83	0.08	0.08	0.17	0.17
10	-1.00	2.00	0.07	0.07	0.24	0.24
14	-0.50	1.41	0.09	0.09	0.33	0.33
18	0.00	1.00	0.11	0.11	0.44	0.44
25	0.50	0.71	0.40	0.40	0.84	0.84
35	1.00	0.50	3.58	3.58	4.42	4.42
45	1.50	0.35	7.20	7.20	11.62	11.62
60	2.00	0.25	9.45	9.45	21.07	21.07
80	2.50	0.18	18.86	18.86	39.93	39.93
120	3.00	0.13	33.85	33.85	73.78	73.78
170	3.50	0.09	22.41	22.41	96.19	96.19
200	3.75	0.07	1.32	1.32	97.51	97.51
230	4.00	0.06	0.73	0.73	98.24	98.24

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.47	3.23	3.03	2.65	2.10	1.73	1.04
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.48	0.18	0.75	-1.26	6.02	

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: C-031 COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):	Northing (ft):	Coordinate System: North Carolina State Plane	Elevation (ft):
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USCS: SP	Munsell:	Comments: Composite
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Dry Weight (g): 99.98	Wash Weight (g): 99.98	Pan Retained (g): 1.42	Sieve Loss (%): 0.00	Fines (%): #200 - 1.98 #230 - 1.43	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.04	0.04	0.04	0.04
3.5	-2.50	5.66	0.00	0.00	0.04	0.04
4	-2.25	4.76	0.05	0.05	0.09	0.09
5	-2.00	4.00	0.02	0.02	0.11	0.11
7	-1.50	2.83	0.05	0.05	0.16	0.16
10	-1.00	2.00	0.04	0.04	0.20	0.20
14	-0.50	1.41	0.03	0.03	0.23	0.23
18	0.00	1.00	0.04	0.04	0.27	0.27
25	0.50	0.71	0.11	0.11	0.38	0.38
35	1.00	0.50	0.94	0.94	1.32	1.32
45	1.50	0.35	7.04	7.04	8.36	8.36
60	2.00	0.25	17.76	17.76	26.12	26.12
80	2.50	0.18	21.41	21.41	47.53	47.53
120	3.00	0.13	29.87	29.88	77.40	77.41
170	3.50	0.09	19.27	19.27	96.67	96.68
200	3.75	0.07	1.34	1.34	98.01	98.02
230	4.00	0.06	0.55	0.55	98.56	98.57

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.46	3.17	2.96	2.54	1.97	1.72	1.26
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.44	0.18	0.68	-0.97	6.9	

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: C-046 COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):	Northing (ft):	Coordinate System: North Carolina State Plane	Elevation (ft):
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USCS: SP	Munsell:	Comments: Composite
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Dry Weight (g): 99.99	Wash Weight (g): 99.99	Pan Retained (g): 1.72	Sieve Loss (%): 0.00	Fines (%): #200 - 2.26 #230 - 1.73	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.26	0.26	0.26	0.26
3.5	-2.50	5.66	0.23	0.23	0.49	0.49
4	-2.25	4.76	0.14	0.14	0.63	0.63
5	-2.00	4.00	0.10	0.10	0.73	0.73
7	-1.50	2.83	0.32	0.32	1.05	1.05
10	-1.00	2.00	0.27	0.27	1.32	1.32
14	-0.50	1.41	0.26	0.26	1.58	1.58
18	0.00	1.00	0.23	0.23	1.81	1.81
25	0.50	0.71	0.35	0.35	2.16	2.16
35	1.00	0.50	1.05	1.05	3.21	3.21
45	1.50	0.35	5.02	5.02	8.23	8.23
60	2.00	0.25	19.26	19.26	27.49	27.49
80	2.50	0.18	29.17	29.17	56.66	56.66
120	3.00	0.13	28.47	28.47	85.13	85.13
170	3.50	0.09	11.74	11.74	96.87	96.87
200	3.75	0.07	0.87	0.87	97.74	97.74
230	4.00	0.06	0.53	0.53	98.27	98.27

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.42	2.98	2.82	2.39	1.94	1.70	1.18
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.29	0.20	0.82	-2.56	15.61	

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: C-061 COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):	Northing (ft):	Coordinate System:	Elevation (ft):
		North Carolina State Plane	

USCS: SP	Munsell:	Comments: Composite
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Dry Weight (g): 99.96	Wash Weight (g): 99.96	Pan Retained (g): 1.74	Sieve Loss (%): 0.00	Fines (%): #200 - 2.65 #230 - 1.74	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.11	0.11	0.11	0.11
3.5	-2.50	5.66	0.18	0.18	0.29	0.29
4	-2.25	4.76	0.06	0.06	0.35	0.35
5	-2.00	4.00	0.16	0.16	0.51	0.51
7	-1.50	2.83	0.50	0.50	1.01	1.01
10	-1.00	2.00	0.53	0.53	1.54	1.54
14	-0.50	1.41	0.45	0.45	1.99	1.99
18	0.00	1.00	0.29	0.29	2.28	2.28
25	0.50	0.71	0.33	0.33	2.61	2.61
35	1.00	0.50	1.01	1.01	3.62	3.62
45	1.50	0.35	5.03	5.03	8.65	8.65
60	2.00	0.25	15.72	15.73	24.37	24.38
80	2.50	0.18	27.73	27.74	52.10	52.12
120	3.00	0.13	28.79	28.80	80.89	80.92
170	3.50	0.09	15.42	15.43	96.31	96.35
200	3.75	0.07	1.00	1.00	97.31	97.35
230	4.00	0.06	0.91	0.91	98.22	98.26

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.46	3.10	2.90	2.46	2.01	1.73	1.14
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.34	0.20	0.85	-2.3	12.55	

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: C-075 COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):	Northing (ft):	Coordinate System: North Carolina State Plane	Elevation (ft):
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USCS: SP	Munsell:	Comments: Composite
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Dry Weight (g): 99.99	Wash Weight (g): 99.99	Pan Retained (g): 2.19	Sieve Loss (%): 0.00	Fines (%): #200 - 2.72 #230 - 2.20	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.11	0.11	0.11	0.11
5/16"	-3.00	8.00	0.14	0.14	0.25	0.25
3.5	-2.50	5.66	0.08	0.08	0.33	0.33
4	-2.25	4.76	0.05	0.05	0.38	0.38
5	-2.00	4.00	0.15	0.15	0.53	0.53
7	-1.50	2.83	0.18	0.18	0.71	0.71
10	-1.00	2.00	0.20	0.20	0.91	0.91
14	-0.50	1.41	0.16	0.16	1.07	1.07
18	0.00	1.00	0.10	0.10	1.17	1.17
25	0.50	0.71	0.15	0.15	1.32	1.32
35	1.00	0.50	0.74	0.74	2.06	2.06
45	1.50	0.35	4.40	4.40	6.46	6.46
60	2.00	0.25	21.81	21.81	28.27	28.27
80	2.50	0.18	33.62	33.62	61.89	61.89
120	3.00	0.13	27.22	27.22	89.11	89.11
170	3.50	0.09	7.97	7.97	97.08	97.08
200	3.75	0.07	0.20	0.20	97.28	97.28
230	4.00	0.06	0.52	0.52	97.80	97.80

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.37	2.91	2.74	2.32	1.93	1.72	1.33
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.26	0.21	0.72	-2.75	20.28	

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 8/12/20

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: Currituck Beach Monitoring 2020

Sample Name: C-090 COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):

Northing (ft):

Coordinate System:

Elevation (ft):

North Carolina State Plane

USCS:

SW

Munsell:

Comments:

Composite

Dry Weight (g): 99.99	Wash Weight (g): 99.99	Pan Retained (g): 2.43	Sieve Loss (%): 0.00	Fines (%): #200 - 3.58 #230 - 2.44	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.26	0.26	0.26	0.26
5/16"	-3.00	8.00	0.32	0.32	0.58	0.58
3.5	-2.50	5.66	0.26	0.26	0.84	0.84
4	-2.25	4.76	0.42	0.42	1.26	1.26
5	-2.00	4.00	0.59	0.59	1.85	1.85
7	-1.50	2.83	1.79	1.79	3.64	3.64
10	-1.00	2.00	2.03	2.03	5.67	5.67
14	-0.50	1.41	1.35	1.35	7.02	7.02
18	0.00	1.00	0.55	0.55	7.57	7.57
25	0.50	0.71	0.36	0.36	7.93	7.93
35	1.00	0.50	0.86	0.86	8.79	8.79
45	1.50	0.35	3.13	3.13	11.92	11.92
60	2.00	0.25	13.21	13.21	25.13	25.13
80	2.50	0.18	23.62	23.62	48.75	48.75
120	3.00	0.13	30.84	30.84	79.59	79.59
170	3.50	0.09	15.51	15.51	95.10	95.10
200	3.75	0.07	1.32	1.32	96.42	96.42
230	4.00	0.06	1.14	1.14	97.56	97.56

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
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3.50	3.14	2.93	2.52	2.00	1.65	-1.17
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Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.19	0.22	1.25	-2.26	8.45

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: C-105 COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):	Northing (ft):	Coordinate System: North Carolina State Plane	Elevation (ft):
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USCS: SW	Munsell:	Comments: Composite
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Dry Weight (g): 99.99	Wash Weight (g): 99.99	Pan Retained (g): 2.02	Sieve Loss (%): 0.00	Fines (%): #200 - 2.85 #230 - 2.03	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.46	0.46	0.46	0.46
3.5	-2.50	5.66	0.86	0.86	1.32	1.32
4	-2.25	4.76	0.68	0.68	2.00	2.00
5	-2.00	4.00	1.02	1.02	3.02	3.02
7	-1.50	2.83	2.46	2.46	5.48	5.48
10	-1.00	2.00	3.19	3.19	8.67	8.67
14	-0.50	1.41	2.73	2.73	11.40	11.40
18	0.00	1.00	0.93	0.93	12.33	12.33
25	0.50	0.71	0.42	0.42	12.75	12.75
35	1.00	0.50	0.93	0.93	13.68	13.68
45	1.50	0.35	4.08	4.08	17.76	17.76
60	2.00	0.25	12.68	12.68	30.44	30.44
80	2.50	0.18	22.40	22.40	52.84	52.84
120	3.00	0.13	30.74	30.74	83.58	83.58
170	3.50	0.09	12.96	12.96	96.54	96.54
200	3.75	0.07	0.61	0.61	97.15	97.15
230	4.00	0.06	0.82	0.82	97.97	97.97

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.44	3.02	2.86	2.44	1.79	1.28	-1.60
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.96	0.26	1.45	-1.79	5.44	

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: C-120 COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):	Northing (ft):	Coordinate System: North Carolina State Plane	Elevation (ft):
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USCS: SW	Munsell:	Comments: Composite
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Dry Weight (g): 99.98	Wash Weight (g): 99.98	Pan Retained (g): 1.19	Sieve Loss (%): 0.00	Fines (%): #200 - 1.54 #230 - 1.19	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.17	0.17	0.17	0.17
3.5	-2.50	5.66	0.17	0.17	0.34	0.34
4	-2.25	4.76	0.22	0.22	0.56	0.56
5	-2.00	4.00	0.25	0.25	0.81	0.81
7	-1.50	2.83	1.21	1.21	2.02	2.02
10	-1.00	2.00	2.23	2.23	4.25	4.25
14	-0.50	1.41	3.81	3.81	8.06	8.06
18	0.00	1.00	2.47	2.47	10.53	10.53
25	0.50	0.71	1.18	1.18	11.71	11.71
35	1.00	0.50	1.48	1.48	13.19	13.19
45	1.50	0.35	6.14	6.14	19.33	19.33
60	2.00	0.25	17.67	17.67	37.00	37.00
80	2.50	0.18	26.35	26.36	63.35	63.36
120	3.00	0.13	26.32	26.33	89.67	89.69
170	3.50	0.09	8.39	8.39	98.06	98.08
200	3.75	0.07	0.38	0.38	98.44	98.46
230	4.00	0.06	0.35	0.35	98.79	98.81

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.32	2.89	2.72	2.25	1.66	1.23	-0.90
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.94	0.26	1.19	-1.66	5.56	

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: Dune COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):	Northing (ft):	Coordinate System: North Carolina State Plane	Elevation (ft):
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USCS: SP	Munsell:	Comments: Composite
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Dry Weight (g): 99.99	Wash Weight (g): 99.99	Pan Retained (g): 0.14	Sieve Loss (%): 0.00	Fines (%): #200 - 0.21 #230 - 0.15	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.01	0.01	0.01	0.01
14	-0.50	1.41	0.03	0.03	0.04	0.04
18	0.00	1.00	0.04	0.04	0.08	0.08
25	0.50	0.71	0.11	0.11	0.19	0.19
35	1.00	0.50	0.72	0.72	0.91	0.91
45	1.50	0.35	5.85	5.85	6.76	6.76
60	2.00	0.25	27.39	27.39	34.15	34.15
80	2.50	0.18	45.24	45.24	79.39	79.39
120	3.00	0.13	18.26	18.26	97.65	97.65
170	3.50	0.09	1.99	1.99	99.64	99.64
200	3.75	0.07	0.15	0.15	99.79	99.79
230	4.00	0.06	0.06	0.06	99.85	99.85

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.93	2.63	2.45	2.18	1.83	1.67	1.35
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.15	0.23	0.46	-0.32	4.35	

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: Toe of Dune COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):	Northing (ft):	Coordinate System: North Carolina State Plane	Elevation (ft):
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USCS: SP	Munsell:	Comments: Composite
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Dry Weight (g): 99.99	Wash Weight (g): 99.99	Pan Retained (g): 0.18	Sieve Loss (%): 0.00	Fines (%): #200 - 0.28 #230 - 0.19	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.06	0.06	0.06	0.06
14	-0.50	1.41	0.14	0.14	0.20	0.20
18	0.00	1.00	0.13	0.13	0.33	0.33
25	0.50	0.71	0.16	0.16	0.49	0.49
35	1.00	0.50	1.59	1.59	2.08	2.08
45	1.50	0.35	8.43	8.43	10.51	10.51
60	2.00	0.25	34.15	34.15	44.66	44.66
80	2.50	0.18	39.17	39.17	83.83	83.83
120	3.00	0.13	13.34	13.34	97.17	97.17
170	3.50	0.09	2.41	2.41	99.58	99.58
200	3.75	0.07	0.14	0.14	99.72	99.72
230	4.00	0.06	0.09	0.09	99.81	99.81

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.92	2.51	2.39	2.07	1.71	1.58	1.17
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.05	0.24	0.51	-0.48	5.68	

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: Mid Berm COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):	Northing (ft):	Coordinate System: North Carolina State Plane	Elevation (ft):
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USCS: SP	Munsell:	Comments: Composite
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Dry Weight (g): 99.98	Wash Weight (g): 99.98	Pan Retained (g): 0.45	Sieve Loss (%): 0.00	Fines (%): #200 - 0.49 #230 - 0.45	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.04	0.04	0.04	0.04
7	-1.50	2.83	0.03	0.03	0.07	0.07
10	-1.00	2.00	0.05	0.05	0.12	0.12
14	-0.50	1.41	0.08	0.08	0.20	0.20
18	0.00	1.00	0.20	0.20	0.40	0.40
25	0.50	0.71	1.13	1.13	1.53	1.53
35	1.00	0.50	4.14	4.14	5.67	5.67
45	1.50	0.35	9.33	9.33	15.00	15.00
60	2.00	0.25	28.72	28.73	43.72	43.73
80	2.50	0.18	42.15	42.16	85.87	85.89
120	3.00	0.13	12.21	12.21	98.08	98.10
170	3.50	0.09	1.30	1.30	99.38	99.40
200	3.75	0.07	0.11	0.11	99.49	99.51
230	4.00	0.06	0.04	0.04	99.53	99.55

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.87	2.48	2.37	2.07	1.67	1.52	0.92
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.99	0.25	0.57	-1.02	6.19	

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: MHW COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):	Northing (ft):	Coordinate System:	Elevation (ft):
		North Carolina State Plane	

USCS: SW	Munsell:	Comments: Composite
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Dry Weight (g): 99.98	Wash Weight (g): 99.98	Pan Retained (g): 0.99	Sieve Loss (%): 0.00	Fines (%): #200 - 1.01 #230 - 0.99	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.18	0.18	0.18	0.18
3.5	-2.50	5.66	0.30	0.30	0.48	0.48
4	-2.25	4.76	0.41	0.41	0.89	0.89
5	-2.00	4.00	0.46	0.46	1.35	1.35
7	-1.50	2.83	1.69	1.69	3.04	3.04
10	-1.00	2.00	2.22	2.22	5.26	5.26
14	-0.50	1.41	2.04	2.04	7.30	7.30
18	0.00	1.00	1.25	1.25	8.55	8.55
25	0.50	0.71	1.63	1.63	10.18	10.18
35	1.00	0.50	3.74	3.74	13.92	13.92
45	1.50	0.35	11.30	11.30	25.22	25.22
60	2.00	0.25	31.85	31.86	57.07	57.08
80	2.50	0.18	28.99	29.00	86.06	86.08
120	3.00	0.13	11.76	11.76	97.82	97.84
170	3.50	0.09	1.12	1.12	98.94	98.96
200	3.75	0.07	0.03	0.03	98.97	98.99
230	4.00	0.06	0.02	0.02	98.99	99.01

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.88	2.46	2.31	1.89	1.49	1.09	-1.06
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.65	0.32	1.07	-1.94	7.05	

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: MTL COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):

Northing (ft):

Coordinate System:

Elevation (ft):

North Carolina State Plane

USCS:

SW

Munsell:

Comments:

Composite

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 0.89 #230 - 0.87	Organics (%):	Carbonates (%):	Shell Hash (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
99.98	99.98	0.86	0.00				
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	0.00
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00	0.00
5/16"	-3.00	8.00	1.03	1.03	1.03	1.03	1.03
3.5	-2.50	5.66	1.06	1.06	2.09	2.09	2.09
4	-2.25	4.76	1.04	1.04	3.13	3.13	3.13
5	-2.00	4.00	1.48	1.48	4.61	4.61	4.61
7	-1.50	2.83	3.43	3.43	8.04	8.04	8.04
10	-1.00	2.00	3.82	3.82	11.86	11.86	11.86
14	-0.50	1.41	3.43	3.43	15.29	15.29	15.29
18	0.00	1.00	1.94	1.94	17.23	17.23	17.23
25	0.50	0.71	2.39	2.39	19.62	19.62	19.62
35	1.00	0.50	4.81	4.81	24.43	24.43	24.43
45	1.50	0.35	12.98	12.98	37.41	37.41	37.41
60	2.00	0.25	27.36	27.37	64.77	64.78	64.78
80	2.50	0.18	23.05	23.05	87.82	87.83	87.83
120	3.00	0.13	10.22	10.22	98.04	98.05	98.05
170	3.50	0.09	1.04	1.04	99.08	99.09	99.09
200	3.75	0.07	0.02	0.02	99.10	99.11	99.11
230	4.00	0.06	0.02	0.02	99.12	99.13	99.13
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.85	2.42	2.22	1.73	1.02	-0.32	-1.94	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.27	0.41	1.43	-1.39	4.1		

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: MLW COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):	Northing (ft):	Coordinate System: North Carolina State Plane	Elevation (ft):
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USCS: SW	Munsell:	Comments: Composite
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Dry Weight (g): 99.98	Wash Weight (g): 99.98	Pan Retained (g): 0.96	Sieve Loss (%): 0.00	Fines (%): #200 - 0.99 #230 - 0.98	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.23	0.23	0.23	0.23
5/16"	-3.00	8.00	0.68	0.68	0.91	0.91
3.5	-2.50	5.66	1.12	1.12	2.03	2.03
4	-2.25	4.76	0.85	0.85	2.88	2.88
5	-2.00	4.00	1.12	1.12	4.00	4.00
7	-1.50	2.83	3.65	3.65	7.65	7.65
10	-1.00	2.00	5.21	5.21	12.86	12.86
14	-0.50	1.41	6.31	6.31	19.17	19.17
18	0.00	1.00	3.40	3.40	22.57	22.57
25	0.50	0.71	2.44	2.44	25.01	25.01
35	1.00	0.50	8.56	8.56	33.57	33.57
45	1.50	0.35	17.55	17.55	51.12	51.12
60	2.00	0.25	22.44	22.44	73.56	73.56
80	2.50	0.18	18.35	18.35	91.91	91.91
120	3.00	0.13	6.43	6.43	98.34	98.34
170	3.50	0.09	0.66	0.66	99.00	99.00
200	3.75	0.07	0.01	0.01	99.01	99.01
230	4.00	0.06	0.01	0.01	99.02	99.02

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.74	2.28	2.04	1.47	0.50	-0.75	-1.86
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.01	0.50	1.42	-1.06	3.31	

REVISED_CURRITUCK_NATIVE_BEACH_COMPOSITE.GPJ 8/12/20

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: Currituck Beach Monitoring 2020

Sample Name: Trough COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):	Northing (ft):	Coordinate System: North Carolina State Plane	Elevation (ft):
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USCS: SP	Munsell:	Comments: Composite
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Dry Weight (g): 99.98	Wash Weight (g): 99.98	Pan Retained (g): 4.46	Sieve Loss (%): 0.00	Fines (%): #200 - 4.94 #230 - 4.47	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.01	0.01	0.01	0.01
4	-2.25	4.76	0.00	0.00	0.01	0.01
5	-2.00	4.00	0.00	0.00	0.01	0.01
7	-1.50	2.83	0.02	0.02	0.03	0.03
10	-1.00	2.00	0.07	0.07	0.10	0.10
14	-0.50	1.41	0.09	0.09	0.19	0.19
18	0.00	1.00	0.08	0.08	0.27	0.27
25	0.50	0.71	0.16	0.16	0.43	0.43
35	1.00	0.50	0.70	0.70	1.13	1.13
45	1.50	0.35	2.56	2.56	3.69	3.69
60	2.00	0.25	7.60	7.60	11.29	11.29
80	2.50	0.18	22.36	22.36	33.65	33.65
120	3.00	0.13	43.73	43.74	77.38	77.39
170	3.50	0.09	17.00	17.00	94.38	94.39
200	3.75	0.07	0.67	0.67	95.05	95.06
230	4.00	0.06	0.47	0.47	95.52	95.53

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.73	3.19	2.97	2.69	2.31	2.11	1.59
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.58	0.17	0.55	-1.43	8.64	

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: Bar COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):

Northing (ft):

Coordinate System:

Elevation (ft):

North Carolina State Plane

USCS:

SP

Munsell:

Comments:

Composite

Dry Weight (g): 99.99	Wash Weight (g): 99.99	Pan Retained (g): 1.29	Sieve Loss (%): 0.00	Fines (%): #200 - 1.57 #230 - 1.30	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.22	0.22	0.22	0.22
5/16"	-3.00	8.00	0.05	0.05	0.27	0.27
3.5	-2.50	5.66	0.00	0.00	0.27	0.27
4	-2.25	4.76	0.00	0.00	0.27	0.27
5	-2.00	4.00	0.02	0.02	0.29	0.29
7	-1.50	2.83	0.06	0.06	0.35	0.35
10	-1.00	2.00	0.13	0.13	0.48	0.48
14	-0.50	1.41	0.15	0.15	0.63	0.63
18	0.00	1.00	0.15	0.15	0.78	0.78
25	0.50	0.71	0.17	0.17	0.95	0.95
35	1.00	0.50	0.54	0.54	1.49	1.49
45	1.50	0.35	2.01	2.01	3.50	3.50
60	2.00	0.25	8.96	8.96	12.46	12.46
80	2.50	0.18	24.92	24.92	37.38	37.38
120	3.00	0.13	43.06	43.06	80.44	80.44
170	3.50	0.09	17.26	17.26	97.70	97.70
200	3.75	0.07	0.73	0.73	98.43	98.43
230	4.00	0.06	0.27	0.27	98.70	98.70

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
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3.42	3.10	2.94	2.65	2.25	2.07	1.58
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Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.55	0.17	0.65	-3.42	28.45

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: -12 NAVD COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):	Northing (ft):	Coordinate System:	Elevation (ft):
		North Carolina State Plane	

USCS: SP	Munsell:	Comments: Composite
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Dry Weight (g): 99.98	Wash Weight (g): 99.98	Pan Retained (g): 1.32	Sieve Loss (%): 0.00	Fines (%): #200 - 1.65 #230 - 1.32	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.06	0.06	0.06	0.06
3.5	-2.50	5.66	0.02	0.02	0.08	0.08
4	-2.25	4.76	0.04	0.04	0.12	0.12
5	-2.00	4.00	0.06	0.06	0.18	0.18
7	-1.50	2.83	0.18	0.18	0.36	0.36
10	-1.00	2.00	0.28	0.28	0.64	0.64
14	-0.50	1.41	0.31	0.31	0.95	0.95
18	0.00	1.00	0.22	0.22	1.17	1.17
25	0.50	0.71	0.29	0.29	1.46	1.46
35	1.00	0.50	0.74	0.74	2.20	2.20
45	1.50	0.35	2.08	2.08	4.28	4.28
60	2.00	0.25	7.42	7.42	11.70	11.70
80	2.50	0.18	26.17	26.18	37.87	37.88
120	3.00	0.13	44.70	44.71	82.57	82.59
170	3.50	0.09	15.04	15.04	97.61	97.63
200	3.75	0.07	0.72	0.72	98.33	98.35
230	4.00	0.06	0.33	0.33	98.66	98.68

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.41	3.05	2.92	2.64	2.25	2.08	1.55
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.53	0.17	0.66	-2.81	18.09	

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: -14 NAVD COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):

Northing (ft):

Coordinate System:

Elevation (ft):

North Carolina State Plane

USCS:

SP

Munsell:

Comments:

Composite

Dry Weight (g):

99.99

Wash Weight (g):

99.99

Pan Retained (g):

1.77

Sieve Loss (%):

0.00

Fines (%):

#200 - 2.34
#230 - 1.77

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

0.15

0.15

0.15

0.15

5/16"

-3.00

8.00

0.06

0.06

0.21

0.21

3.5

-2.50

5.66

0.01

0.01

0.22

0.22

4

-2.25

4.76

0.02

0.02

0.24

0.24

5

-2.00

4.00

0.07

0.07

0.31

0.31

7

-1.50

2.83

0.26

0.26

0.57

0.57

10

-1.00

2.00

0.35

0.35

0.92

0.92

14

-0.50

1.41

0.32

0.32

1.24

1.24

18

0.00

1.00

0.18

0.18

1.42

1.42

25

0.50

0.71

0.14

0.14

1.56

1.56

35

1.00

0.50

0.29

0.29

1.85

1.85

45

1.50

0.35

0.72

0.72

2.57

2.57

60

2.00

0.25

2.81

2.81

5.38

5.38

80

2.50

0.18

18.03

18.03

23.41

23.41

120

3.00

0.13

52.15

52.16

75.56

75.57

170

3.50

0.09

21.19

21.19

96.75

96.76

200

3.75

0.07

0.90

0.90

97.65

97.66

230

4.00

0.06

0.57

0.57

98.22

98.23

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

3.46

3.20

2.99

2.75

2.52

2.29

1.93

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

2.67

0.16

0.67

-4.3

32.04

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: -16 NAVD COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):	Northing (ft):	Coordinate System:	Elevation (ft):
		North Carolina State Plane	

USCS: SP	Munsell:	Comments: Composite
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Dry Weight (g): 99.97	Wash Weight (g): 99.97	Pan Retained (g): 2.34	Sieve Loss (%): 0.00	Fines (%): #200 - 3.55 #230 - 2.35	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.01	0.01	0.01	0.01
4	-2.25	4.76	0.01	0.01	0.02	0.02
5	-2.00	4.00	0.07	0.07	0.09	0.09
7	-1.50	2.83	0.12	0.12	0.21	0.21
10	-1.00	2.00	0.07	0.07	0.28	0.28
14	-0.50	1.41	0.07	0.07	0.35	0.35
18	0.00	1.00	0.04	0.04	0.39	0.39
25	0.50	0.71	0.05	0.05	0.44	0.44
35	1.00	0.50	0.12	0.12	0.56	0.56
45	1.50	0.35	0.24	0.24	0.80	0.80
60	2.00	0.25	0.97	0.97	1.77	1.77
80	2.50	0.18	9.08	9.08	10.85	10.85
120	3.00	0.13	49.84	49.85	60.69	60.70
170	3.50	0.09	34.13	34.14	94.82	94.84
200	3.75	0.07	1.61	1.61	96.43	96.45
230	4.00	0.06	1.20	1.20	97.63	97.65

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.52	3.34	3.21	2.89	2.64	2.55	2.18
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	2.87	0.14	0.47	-3.62	34.98	

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: -18 NAVD COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):

Northing (ft):

Coordinate System:

Elevation (ft):

North Carolina State Plane

USCS:

SP-SM

Munsell:

Comments:

Composite

Dry Weight (g):

99.97

Wash Weight (g):

99.97

Pan Retained (g):

3.63

Sieve Loss (%):

0.00

Fines (%):

#200 - 6.20
#230 - 3.64

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

0.14

0.14

0.14

0.14

3.5

-2.50

5.66

0.05

0.05

0.19

0.19

4

-2.25

4.76

0.07

0.07

0.26

0.26

5

-2.00

4.00

0.03

0.03

0.29

0.29

7

-1.50

2.83

0.12

0.12

0.41

0.41

10

-1.00

2.00

0.12

0.12

0.53

0.53

14

-0.50

1.41

0.09

0.09

0.62

0.62

18

0.00

1.00

0.10

0.10

0.72

0.72

25

0.50

0.71

0.16

0.16

0.88

0.88

35

1.00

0.50

0.33

0.33

1.21

1.21

45

1.50

0.35

0.52

0.52

1.73

1.73

60

2.00

0.25

1.31

1.31

3.04

3.04

80

2.50

0.18

8.59

8.59

11.63

11.63

120

3.00

0.13

40.29

40.30

51.92

51.93

170

3.50

0.09

39.15

39.16

91.07

91.09

200

3.75

0.07

2.71

2.71

93.78

93.80

230

4.00

0.06

2.56

2.56

96.34

96.36

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

3.87

3.41

3.29

2.98

2.67

2.55

2.11

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

2.9

0.13

0.61

-4.26

35.84

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: -20 NAVD COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):

Northing (ft):

Coordinate System:

Elevation (ft):

North Carolina State Plane

USCS:

SP-SM

Munsell:

Comments:

Composite

Dry Weight (g): 99.98	Wash Weight (g): 99.98	Pan Retained (g): 4.36	Sieve Loss (%): 0.00	Fines (%): #200 - 7.51 #230 - 4.36	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.10	0.10	0.10	0.10
5/16"	-3.00	8.00	0.13	0.13	0.23	0.23
3.5	-2.50	5.66	0.18	0.18	0.41	0.41
4	-2.25	4.76	0.05	0.05	0.46	0.46
5	-2.00	4.00	0.11	0.11	0.57	0.57
7	-1.50	2.83	0.18	0.18	0.75	0.75
10	-1.00	2.00	0.21	0.21	0.96	0.96
14	-0.50	1.41	0.16	0.16	1.12	1.12
18	0.00	1.00	0.13	0.13	1.25	1.25
25	0.50	0.71	0.21	0.21	1.46	1.46
35	1.00	0.50	0.44	0.44	1.90	1.90
45	1.50	0.35	0.67	0.67	2.57	2.57
60	2.00	0.25	2.17	2.17	4.74	4.74
80	2.50	0.18	8.22	8.22	12.96	12.96
120	3.00	0.13	33.85	33.86	46.81	46.82
170	3.50	0.09	41.47	41.48	88.28	88.30
200	3.75	0.07	4.19	4.19	92.47	92.49
230	4.00	0.06	3.15	3.15	95.62	95.64

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
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3.95	3.45	3.34	3.04	2.68	2.54	2.02
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Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.89	0.13	0.74	-4.26	30.41

CURRITUCK BEACH NATIVE BEACH COMPOSITES.GPJ 7/16/20

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: Currituck Beach Monitoring 2020

Sample Name: Beach COMP

Analysis Date: 06-17-20

Analyzed By: SP

Easting (ft):

Northing (ft):

Coordinate System:

Elevation (ft):

North Carolina State Plane

USCS:

SW

Munsell:

Comments:

Composite

Dry Weight (g): 99.98	Wash Weight (g): 99.98	Pan Retained (g): 1.75	Sieve Loss (%): 0.00	Fines (%): #200 - 2.44 #230 - 1.76	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.05	0.05	0.05	0.05
5/16"	-3.00	8.00	0.18	0.18	0.23	0.23
3.5	-2.50	5.66	0.21	0.21	0.44	0.44
4	-2.25	4.76	0.20	0.20	0.64	0.64
5	-2.00	4.00	0.26	0.26	0.90	0.90
7	-1.50	2.83	0.75	0.75	1.65	1.65
10	-1.00	2.00	0.97	0.97	2.62	2.62
14	-0.50	1.41	1.02	1.02	3.64	3.64
18	0.00	1.00	0.60	0.60	4.24	4.24
25	0.50	0.71	0.70	0.70	4.94	4.94
35	1.00	0.50	2.05	2.05	6.99	6.99
45	1.50	0.35	5.72	5.72	12.71	12.71
60	2.00	0.25	15.62	15.62	28.33	28.33
80	2.50	0.18	24.18	24.18	52.51	52.51
120	3.00	0.13	29.22	29.23	81.73	81.74
170	3.50	0.09	14.90	14.90	96.63	96.64
200	3.75	0.07	0.92	0.92	97.55	97.56
230	4.00	0.06	0.68	0.68	98.23	98.24

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
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3.44	3.08	2.88	2.45	1.89	1.61	0.51
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Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.23	0.21	1.02	-2.2	9.86

REVISED_CURRITUCK_NATIVE_BEACH_COMPOSITE.GPJ 8/12/20

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: Currituck Beach Monitoring 2020

Sample Name: COROLLA

Analysis Date: 08-11-20

Analyzed By: BF

Easting (ft):

Northing (ft):

Coordinate System:

Elevation (ft):

North Carolina State Plane

USCS:

SW

Munsell:

Comments:

Composite

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 2.98 #230 - 2.12	Organics (%):	Carbonates (%):	Shell Hash (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
99.98	99.98	2.12	0.00				
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	0.12	0.12	0.12	0.12	
5/16"	-3.00	8.00	0.19	0.19	0.31	0.31	
3.5	-2.50	5.66	0.18	0.18	0.49	0.49	
4	-2.25	4.76	0.18	0.18	0.67	0.67	
5	-2.00	4.00	0.29	0.29	0.96	0.96	
7	-1.50	2.83	0.83	0.83	1.79	1.79	
10	-1.00	2.00	0.92	0.92	2.71	2.71	
14	-0.50	1.41	0.65	0.65	3.36	3.36	
18	0.00	1.00	0.32	0.32	3.68	3.68	
25	0.50	0.71	0.27	0.27	3.95	3.95	
35	1.00	0.50	0.87	0.87	4.82	4.82	
45	1.50	0.35	4.19	4.19	9.01	9.01	
60	2.00	0.25	16.91	16.91	25.92	25.92	
80	2.50	0.18	28.33	28.34	54.25	54.26	
120	3.00	0.13	28.95	28.96	83.20	83.22	
170	3.50	0.09	12.96	12.96	96.16	96.18	
200	3.75	0.07	0.84	0.84	97.00	97.02	
230	4.00	0.06	0.86	0.86	97.86	97.88	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.45	3.03	2.86	2.42	1.97	1.71	1.02	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.26	0.21	0.97	-2.59	12.73		

REVISED_CURRITUCK_NATIVE_BEACH_COMPOSITE.GPJ 8/12/20

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: Currituck Beach Monitoring 2020

Sample Name: COROVA

Analysis Date: 08-11-20

Analyzed By: BF

Easting (ft):

Northing (ft):

Coordinate System:

Elevation (ft):

North Carolina State Plane

USCS:

SW

Munsell:

Comments:

Composite

Dry Weight (g): 99.99	Wash Weight (g): 99.99	Pan Retained (g): 1.52	Sieve Loss (%): 0.00	Fines (%): #200 - 2.18 #230 - 1.53	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.06	0.06	0.06	0.06
5/16"	-3.00	8.00	0.06	0.06	0.12	0.12
3.5	-2.50	5.66	0.05	0.05	0.17	0.17
4	-2.25	4.76	0.06	0.06	0.23	0.23
5	-2.00	4.00	0.05	0.05	0.28	0.28
7	-1.50	2.83	0.12	0.12	0.40	0.40
10	-1.00	2.00	0.11	0.11	0.51	0.51
14	-0.50	1.41	0.19	0.19	0.70	0.70
18	0.00	1.00	0.41	0.41	1.11	1.11
25	0.50	0.71	1.68	1.68	2.79	2.79
35	1.00	0.50	5.75	5.75	8.54	8.54
45	1.50	0.35	8.28	8.28	16.82	16.82
60	2.00	0.25	11.26	11.26	28.08	28.08
80	2.50	0.18	16.66	16.66	44.74	44.74
120	3.00	0.13	30.35	30.35	75.09	75.09
170	3.50	0.09	21.44	21.44	96.53	96.53
200	3.75	0.07	1.29	1.29	97.82	97.82
230	4.00	0.06	0.65	0.65	98.47	98.47

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
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3.46	3.21	3.00	2.59	1.86	1.45	0.69
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Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.35	0.20	0.89	-1.4	6.79

REVISED_CURRITUCK_NATIVE_BEACH_COMPOSITE.GPJ 8/12/20

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: Currituck Beach Monitoring 2020

Sample Name: PINE ISLAND

Analysis Date: 08-11-20

Analyzed By: BF

Easting (ft):	Northing (ft):	Coordinate System: North Carolina State Plane	Elevation (ft):
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USCS: SW	Munsell:	Comments: Composite
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Dry Weight (g): 99.98	Wash Weight (g): 99.98	Pan Retained (g): 1.60	Sieve Loss (%): 0.00	Fines (%): #200 - 2.19 #230 - 1.61	Organics (%):	Carbonates (%):	Shell Hash (%):
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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	0.32	0.32	0.32	0.32
3.5	-2.50	5.66	0.51	0.51	0.83	0.83
4	-2.25	4.76	0.45	0.45	1.28	1.28
5	-2.00	4.00	0.63	0.63	1.91	1.91
7	-1.50	2.83	1.84	1.84	3.75	3.75
10	-1.00	2.00	2.71	2.71	6.46	6.46
14	-0.50	1.41	3.27	3.27	9.73	9.73
18	0.00	1.00	1.70	1.70	11.43	11.43
25	0.50	0.71	0.80	0.80	12.23	12.23
35	1.00	0.50	1.21	1.21	13.44	13.44
45	1.50	0.35	5.11	5.11	18.55	18.55
60	2.00	0.25	15.17	15.17	33.72	33.72
80	2.50	0.18	24.38	24.38	58.10	58.10
120	3.00	0.13	28.52	28.53	86.62	86.63
170	3.50	0.09	10.68	10.68	97.30	97.31
200	3.75	0.07	0.50	0.50	97.80	97.81
230	4.00	0.06	0.58	0.58	98.38	98.39

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.39	2.95	2.80	2.33	1.71	1.25	-1.27
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.95	0.26	1.33	-1.76	5.65	

REVISED_CURRITUCK_NATIVE_BEACH_COMPOSITE.GPJ 8/12/20

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: Currituck Beach Monitoring 2020

Sample Name: REFUGE/RESERVE

Analysis Date: 08-11-20

Analyzed By: BF

Easting (ft):

Northing (ft):

Coordinate System:

Elevation (ft):

North Carolina State Plane

USCS:

SP

Munsell:

Comments:

Composite

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 2.10 #230 - 1.57	Organics (%):	Carbonates (%):	Shell Hash (%):
99.98	99.98	1.57	0.00				
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	0.15	0.15	0.15	0.15	
3.5	-2.50	5.66	0.12	0.12	0.27	0.27	
4	-2.25	4.76	0.09	0.09	0.36	0.36	
5	-2.00	4.00	0.06	0.06	0.42	0.42	
7	-1.50	2.83	0.19	0.19	0.61	0.61	
10	-1.00	2.00	0.15	0.15	0.76	0.76	
14	-0.50	1.41	0.15	0.15	0.91	0.91	
18	0.00	1.00	0.13	0.13	1.04	1.04	
25	0.50	0.71	0.23	0.23	1.27	1.27	
35	1.00	0.50	1.00	1.00	2.27	2.27	
45	1.50	0.35	6.02	6.02	8.29	8.29	
60	2.00	0.25	18.52	18.52	26.81	26.81	
80	2.50	0.18	25.28	25.29	52.09	52.10	
120	3.00	0.13	29.17	29.18	81.26	81.28	
170	3.50	0.09	15.51	15.51	96.77	96.79	
200	3.75	0.07	1.11	1.11	97.88	97.90	
230	4.00	0.06	0.53	0.53	98.41	98.43	

REVISED_CURRITUCK_NATIVE_BEACH_COMPOSITE.GPJ 8/12/20

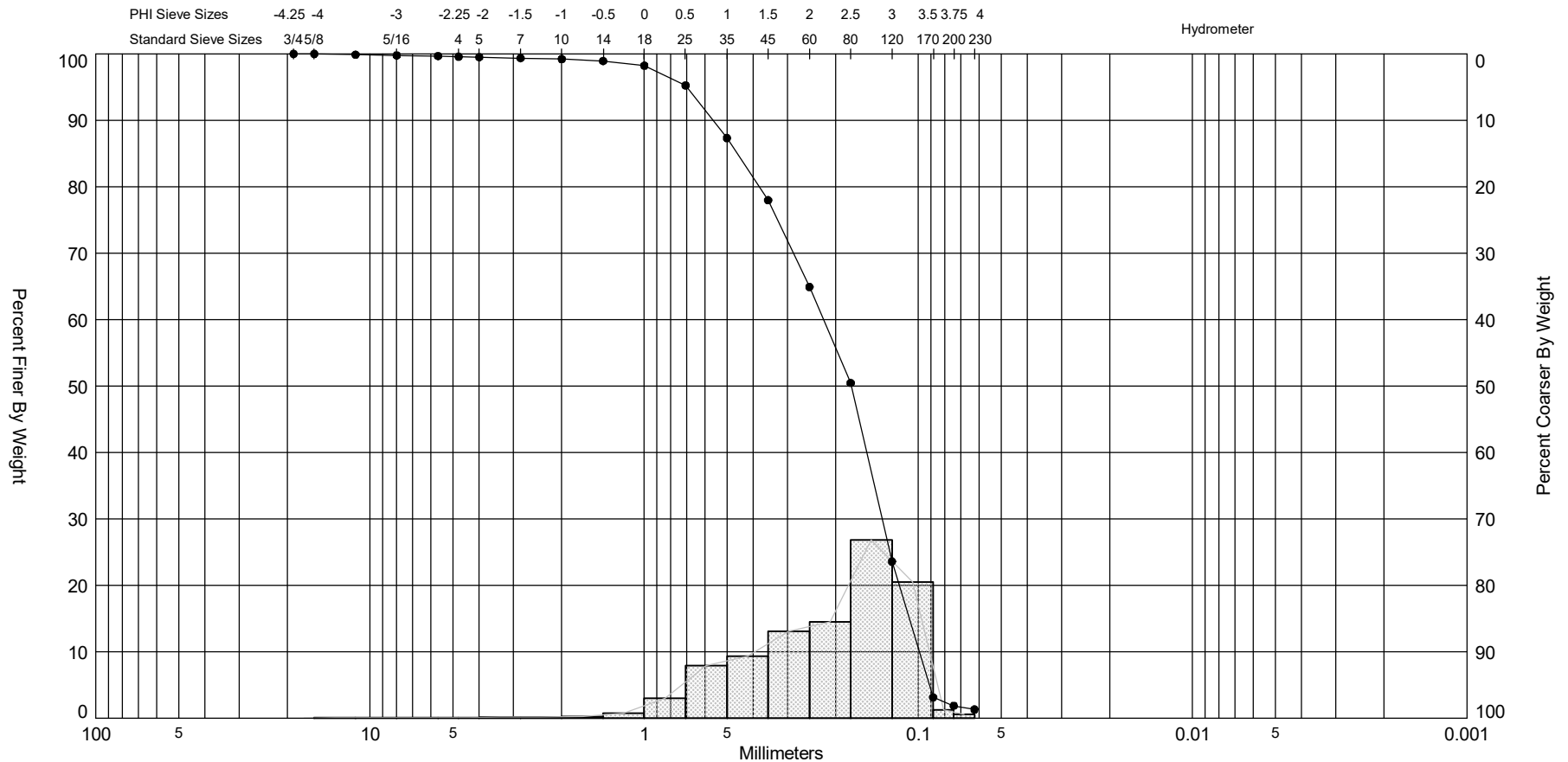
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
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3.44	3.09	2.89	2.46	1.95	1.71	1.23
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Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.36	0.19	0.76	-2.03	13.54

APPENDIX 5
BEACH COMPOSITE GRAIN SIZE DISTRIBUTION CURVES/HISTOGRAMS
(Digital Copy Only)

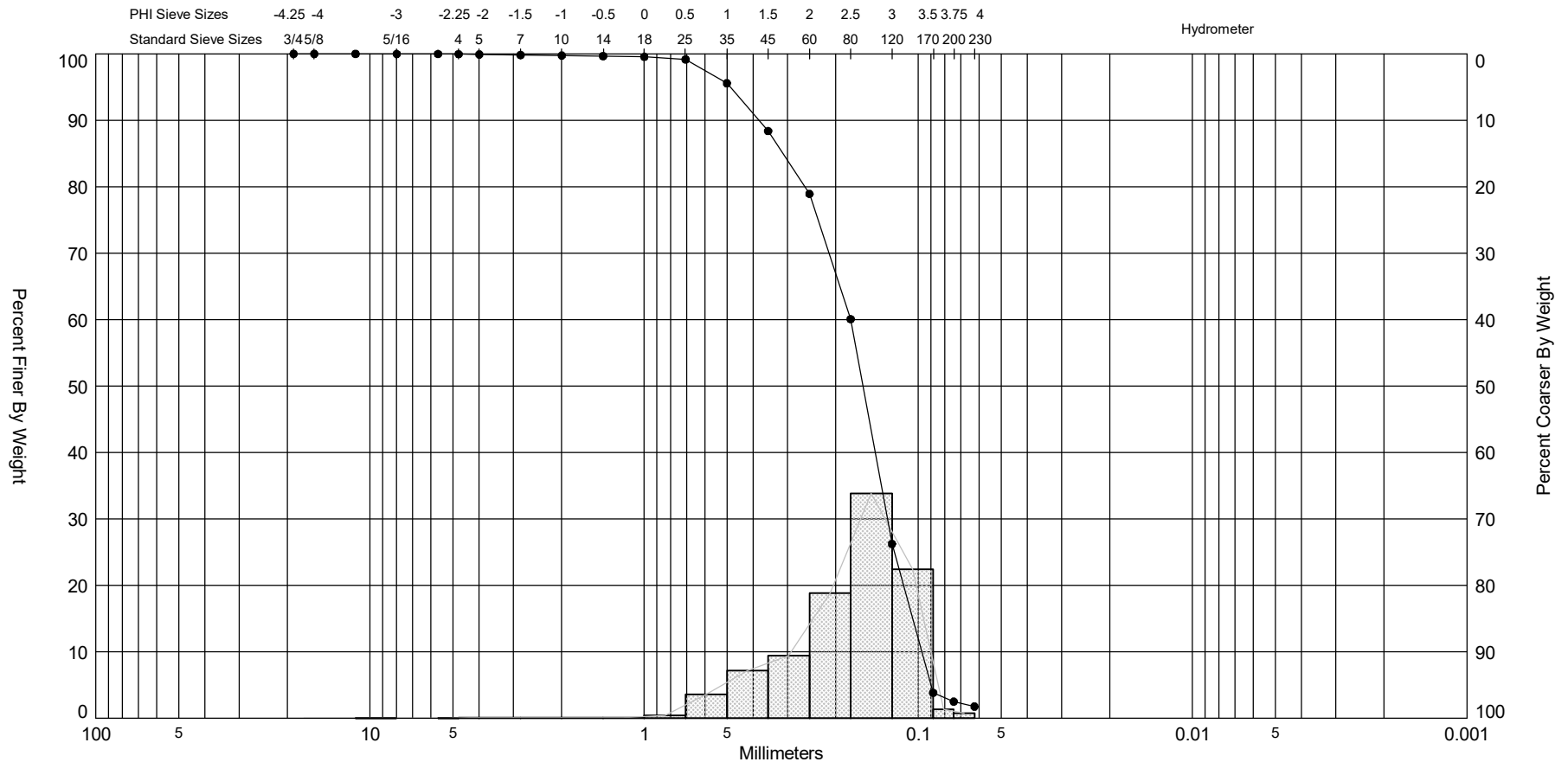
CURRITUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 7/16/20




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	
C-002 COMP	—●—		SW	#200 - 1.87 #230 - 1.30			2.51	2.22	-1.3	6.2	0.99	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite												Analysis Date:	06-17-20
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):	
												Northing (Y, ft):	
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												Vertical Datum:	NAVD 88

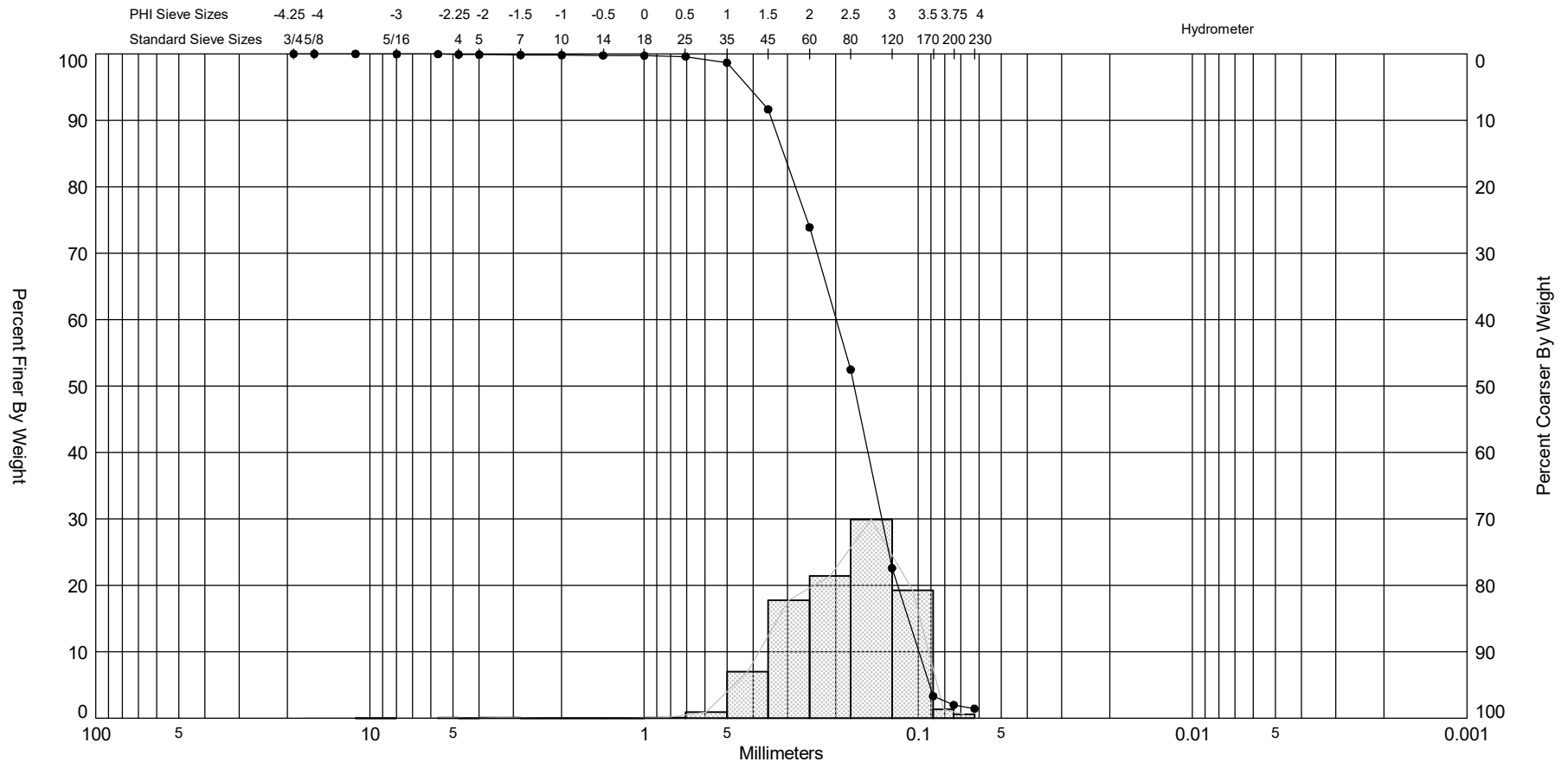
CURRITUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 7/16/20




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	
C-017 COMP	—●—		SP	#200 - 2.49 #230 - 1.76			2.65	2.48	-1.26	6.02	0.75	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite												Analysis Date:	06-17-20
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):	
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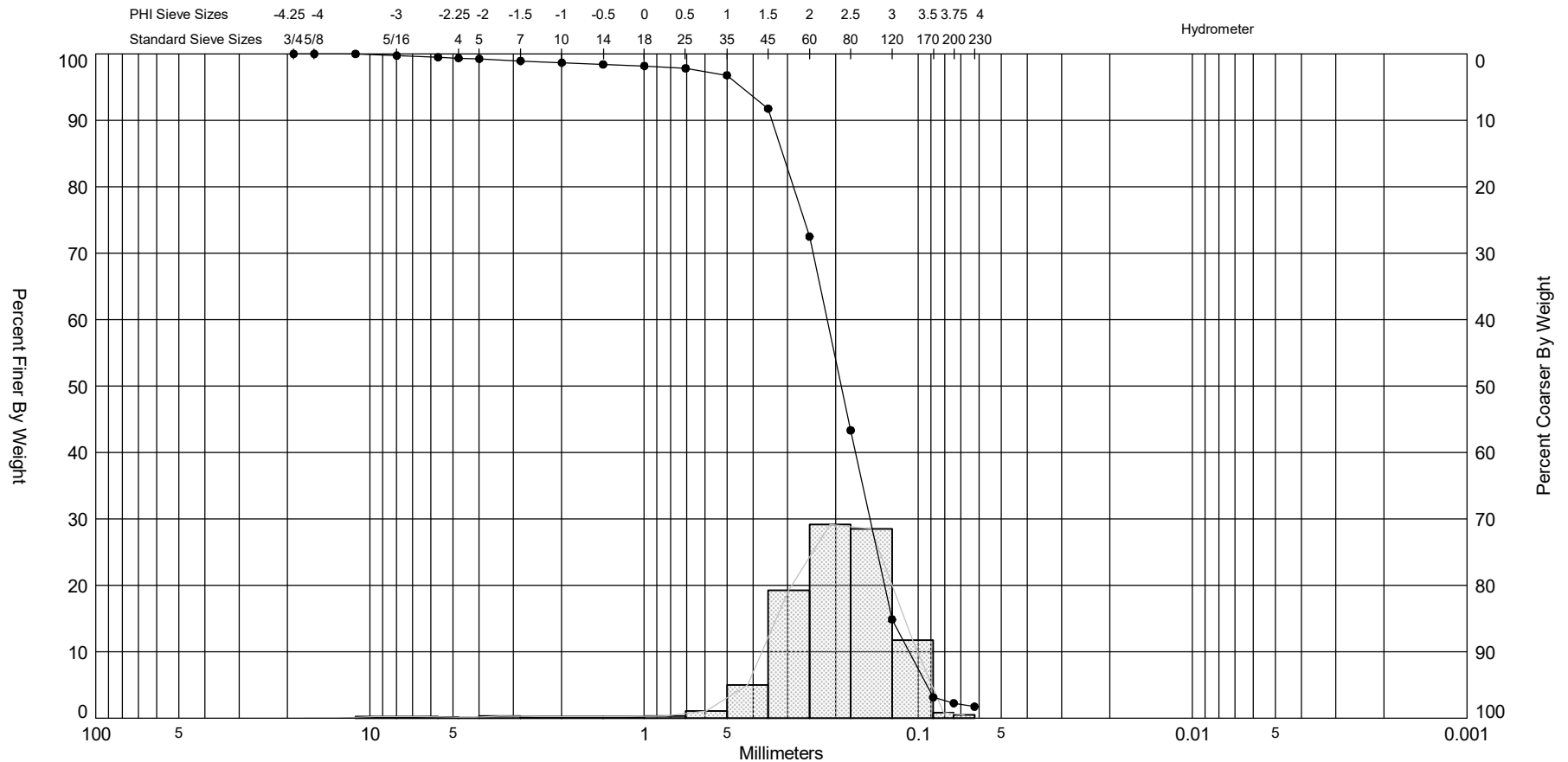
CURRITUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 7/16/20




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	
C-031 COMP	—●—		SP	#200 - 1.98 #230 - 1.43			2.54	2.44	-0.97	6.9	0.68	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite												Analysis Date:	06-17-20
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):	
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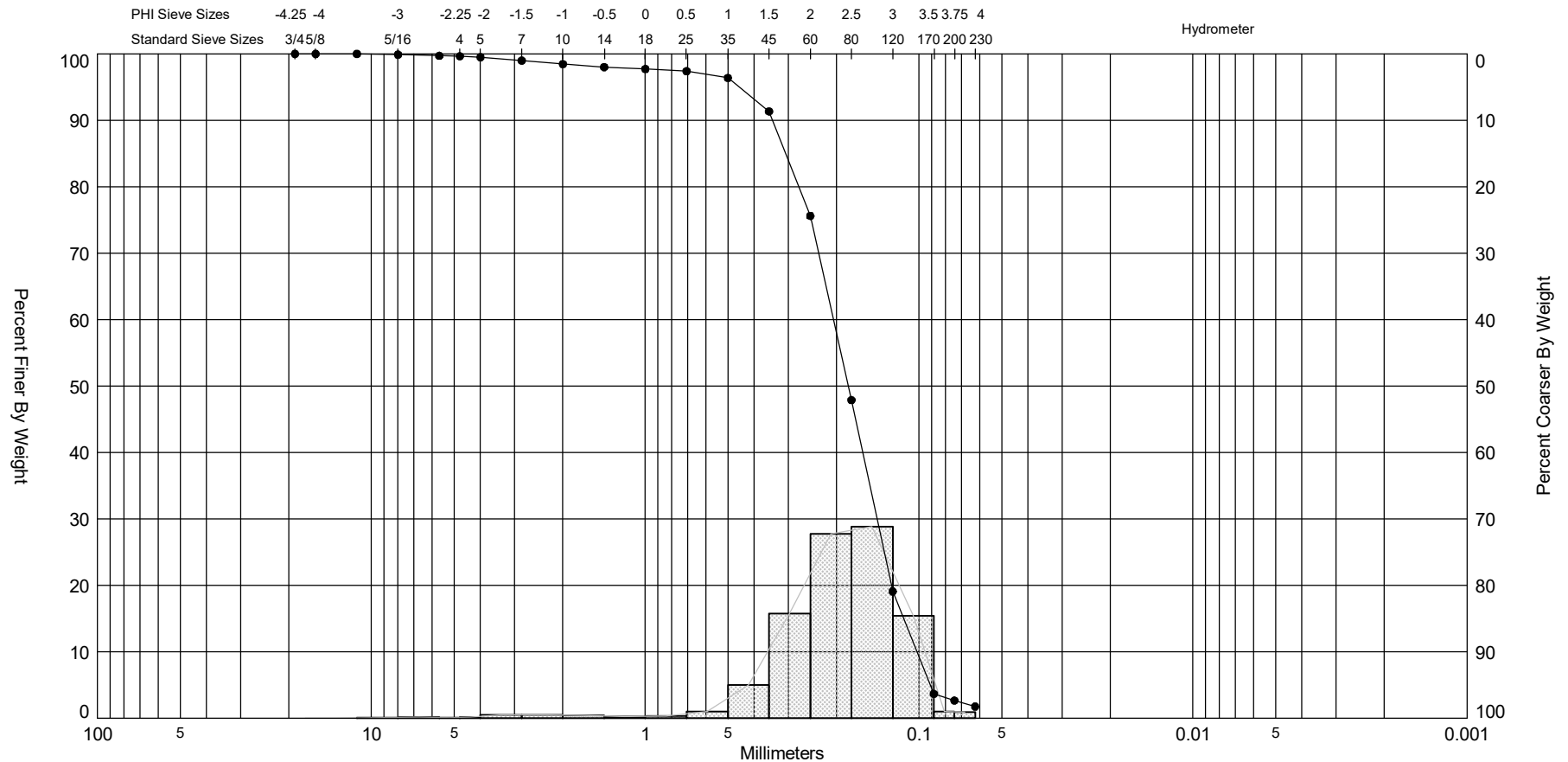
CURRITUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 7/16/20




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	
C-046 COMP	—●—		SP	#200 - 2.26 #230 - 1.73			2.39	2.29	-2.56	15.61	0.82	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite											Analysis Date:	06-17-20	
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):	
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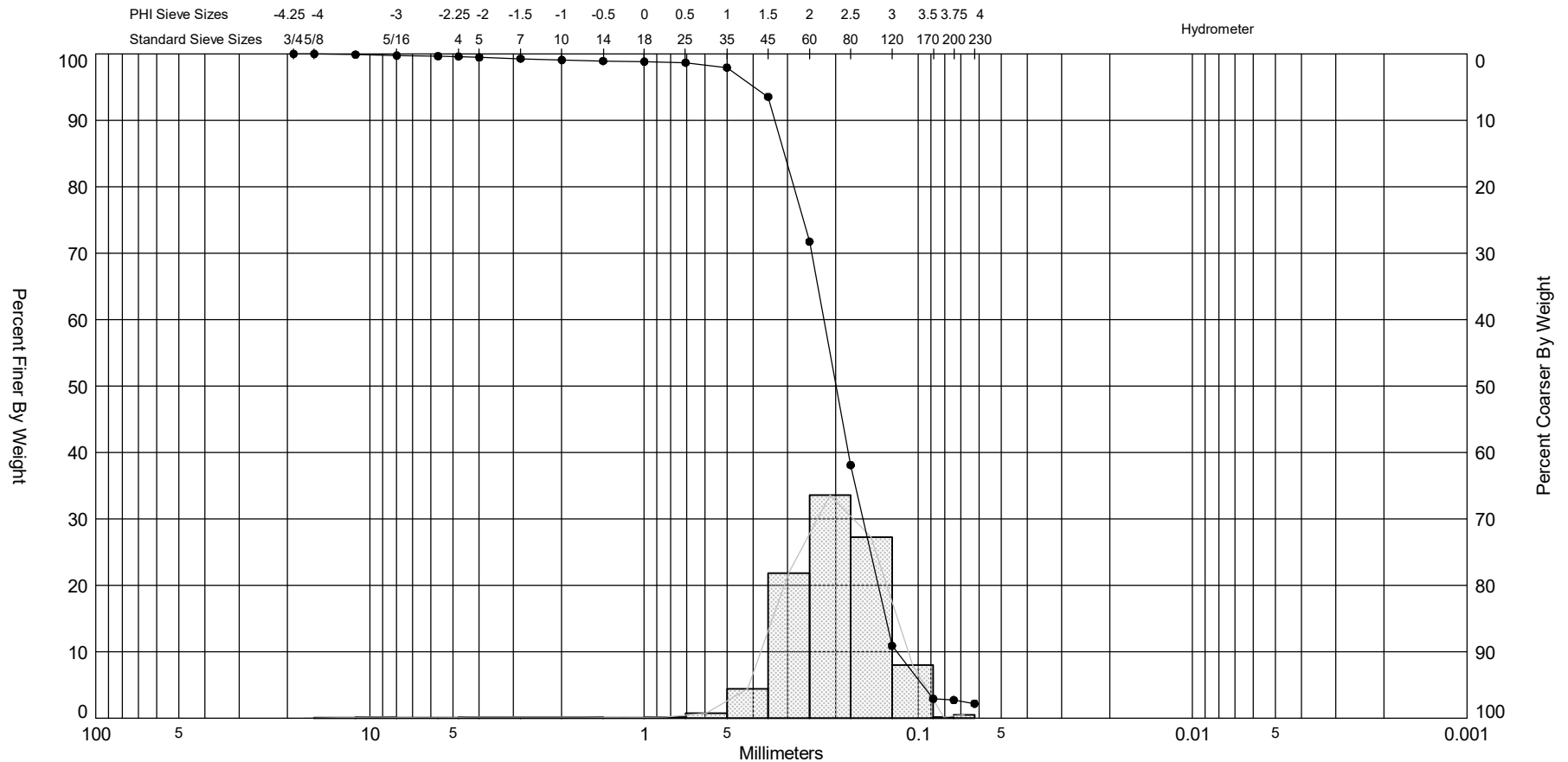
CURRITUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 7/16/20




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	
C-061 COMP	—●—		SP	#200 - 2.65 #230 - 1.74			2.46	2.34	-2.3	12.55	0.85	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite												Analysis Date:	06-17-20
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):	
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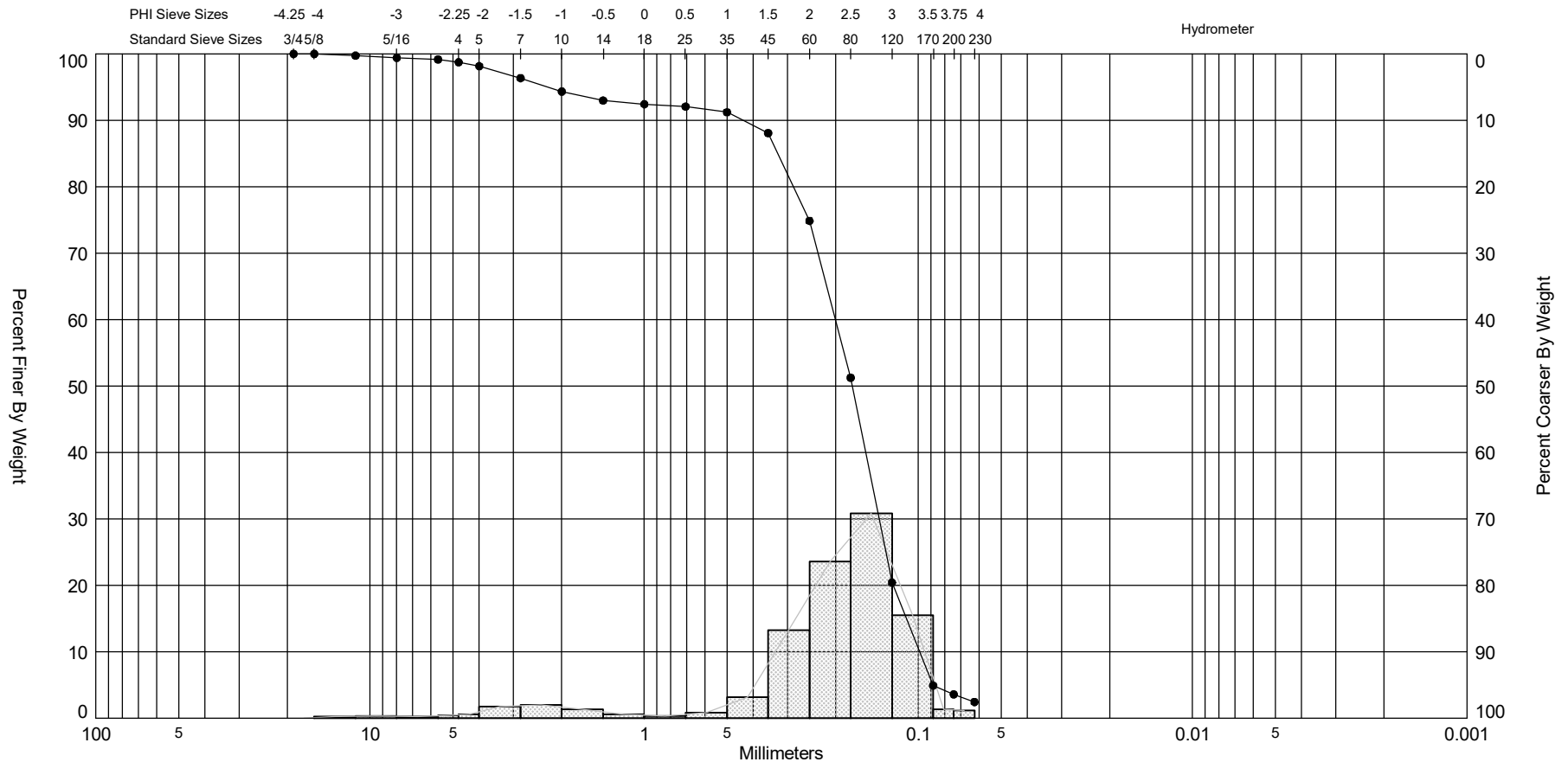
CURRITUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 8/12/20




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	
C-075 COMP	—●—		SP	#200 - 2.72 #230 - 2.20			2.32	2.26	-2.75	20.28	0.72	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite												Analysis Date:	06-17-20
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):	
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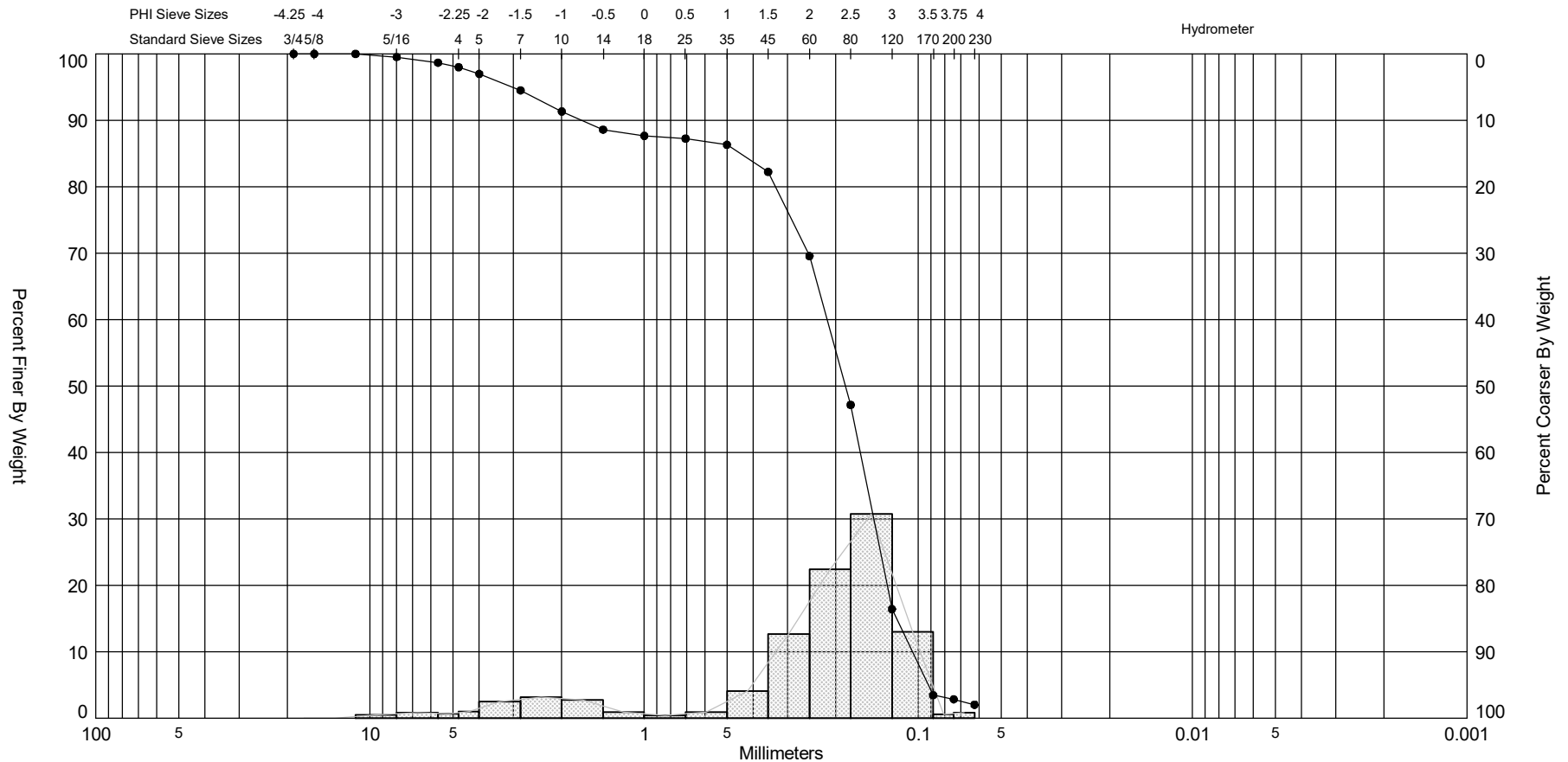
CURRITUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 7/16/20




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	
C-090 COMP	—●—		SW	#200 - 3.58 #230 - 2.44			2.52	2.19	-2.26	8.45	1.25	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite												Analysis Date:	06-17-20
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):	
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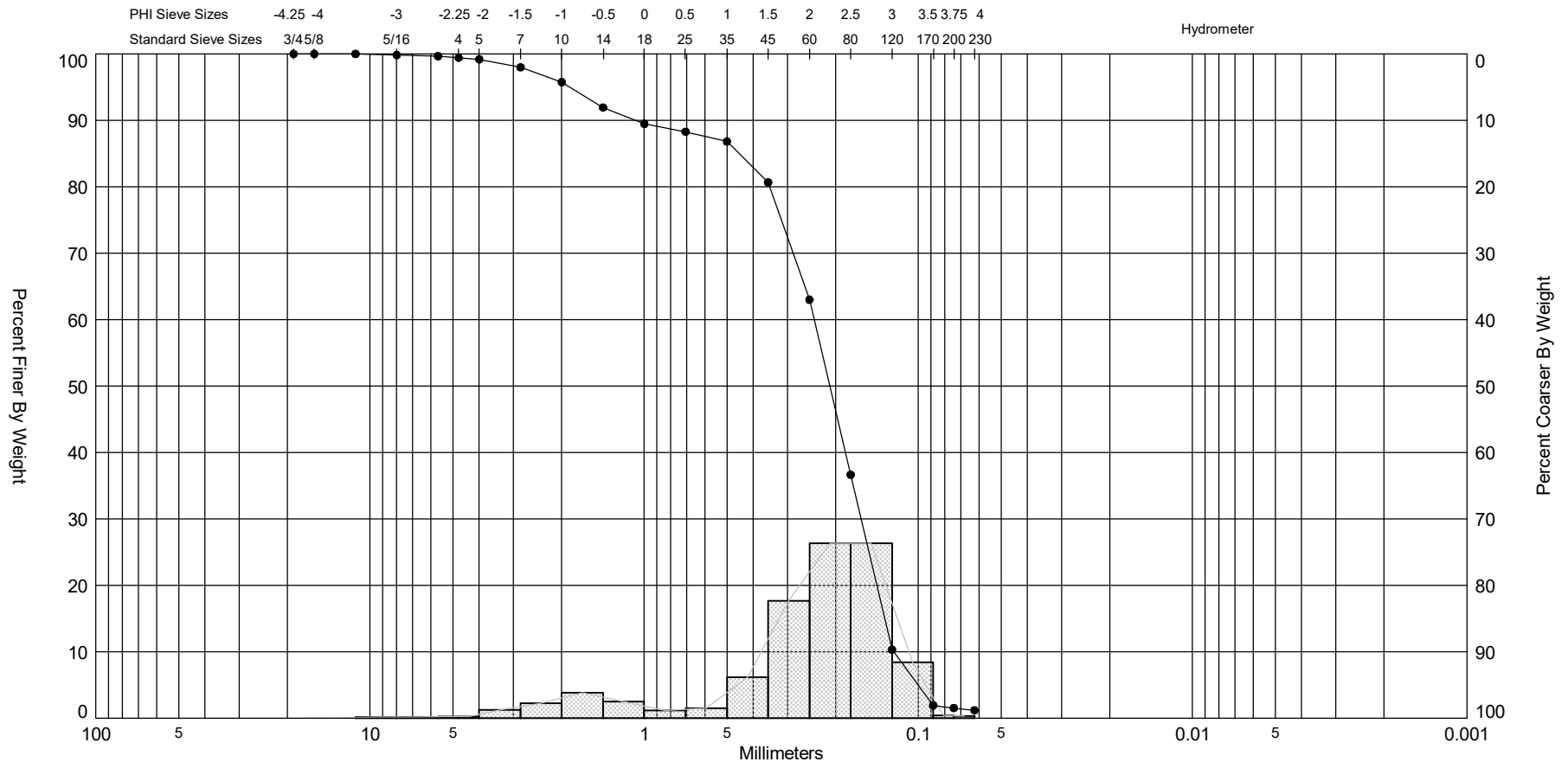
CURRITUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 7/16/20




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	
C-105 COMP	—●—		SW	#200 - 2.85 #230 - 2.03			2.44	1.96	-1.79	5.44	1.45	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite											Analysis Date:	06-17-20	
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):	
												Northing (Y, ft):	
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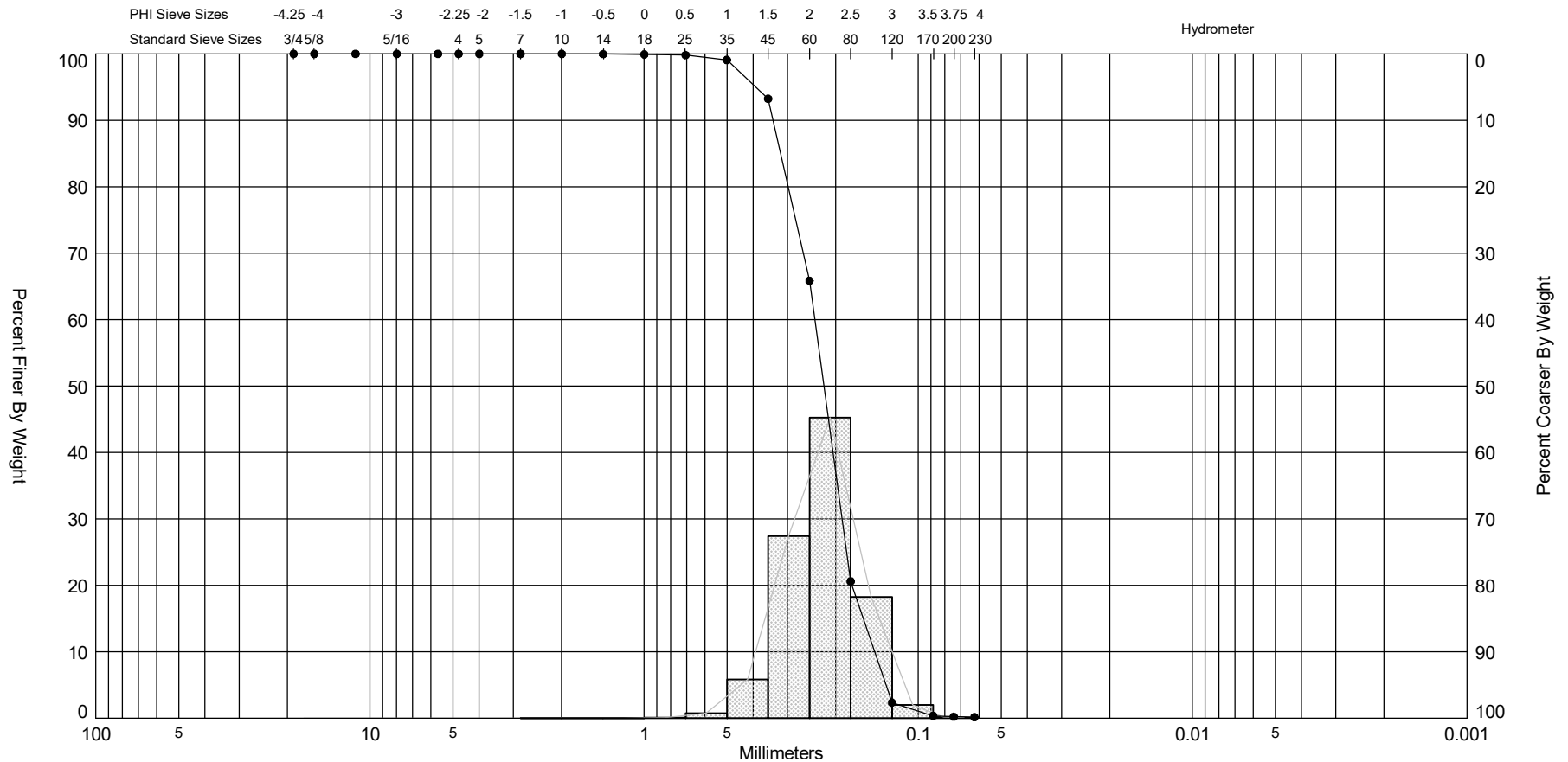
CURRITUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 7/16/20




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	
C-120 COMP	—●—		SW	#200 - 1.54 #230 - 1.19			2.25	1.94	-1.66	5.56	1.19	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite												Analysis Date:	06-17-20
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):	
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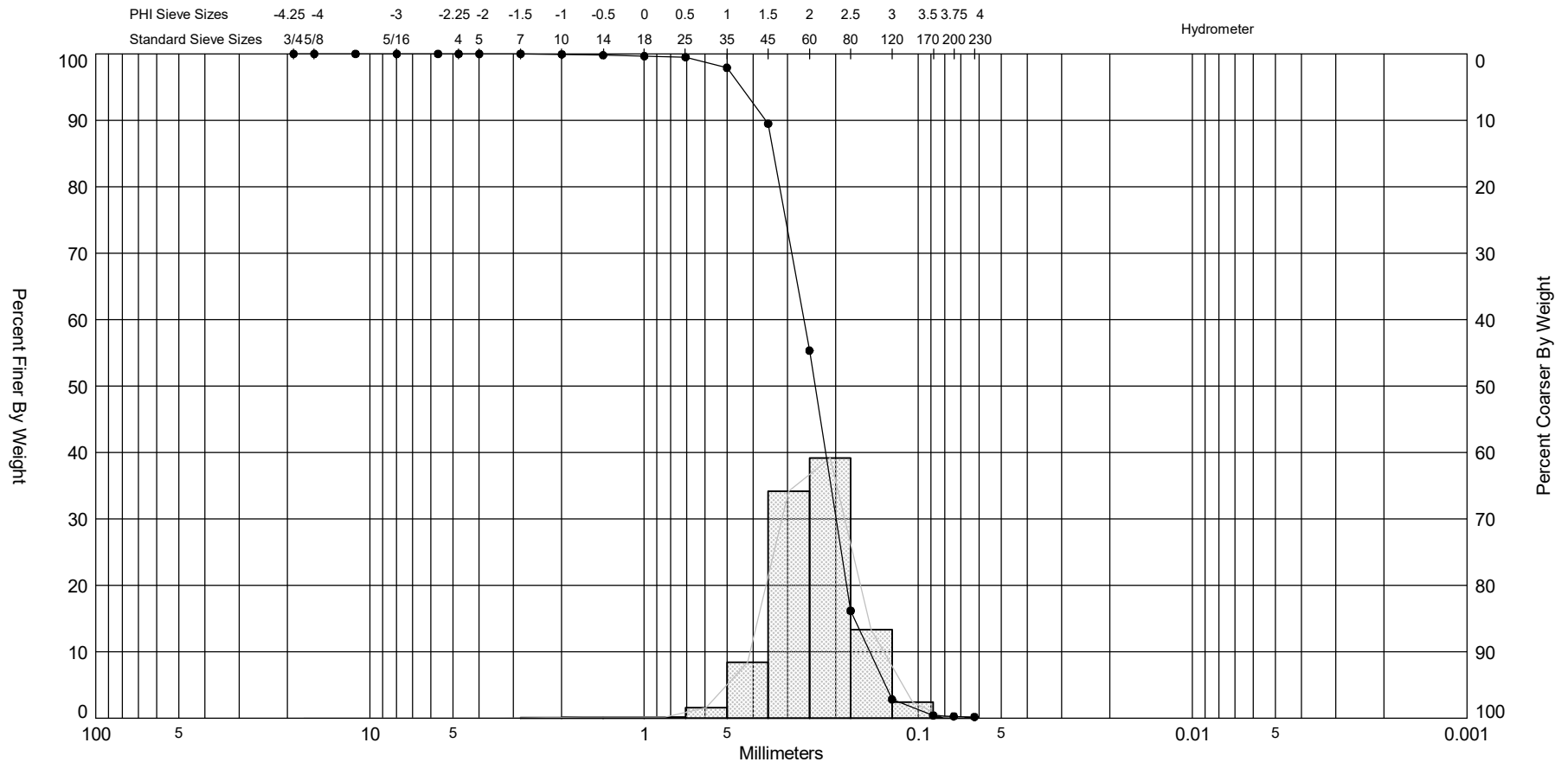
CURRITUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 7/16/20




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	
Dune COMP	—●—		SP	#200 - 0.21 #230 - 0.15			2.18	2.15	-0.32	4.35	0.46	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite												Analysis Date:	06-17-20
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):	
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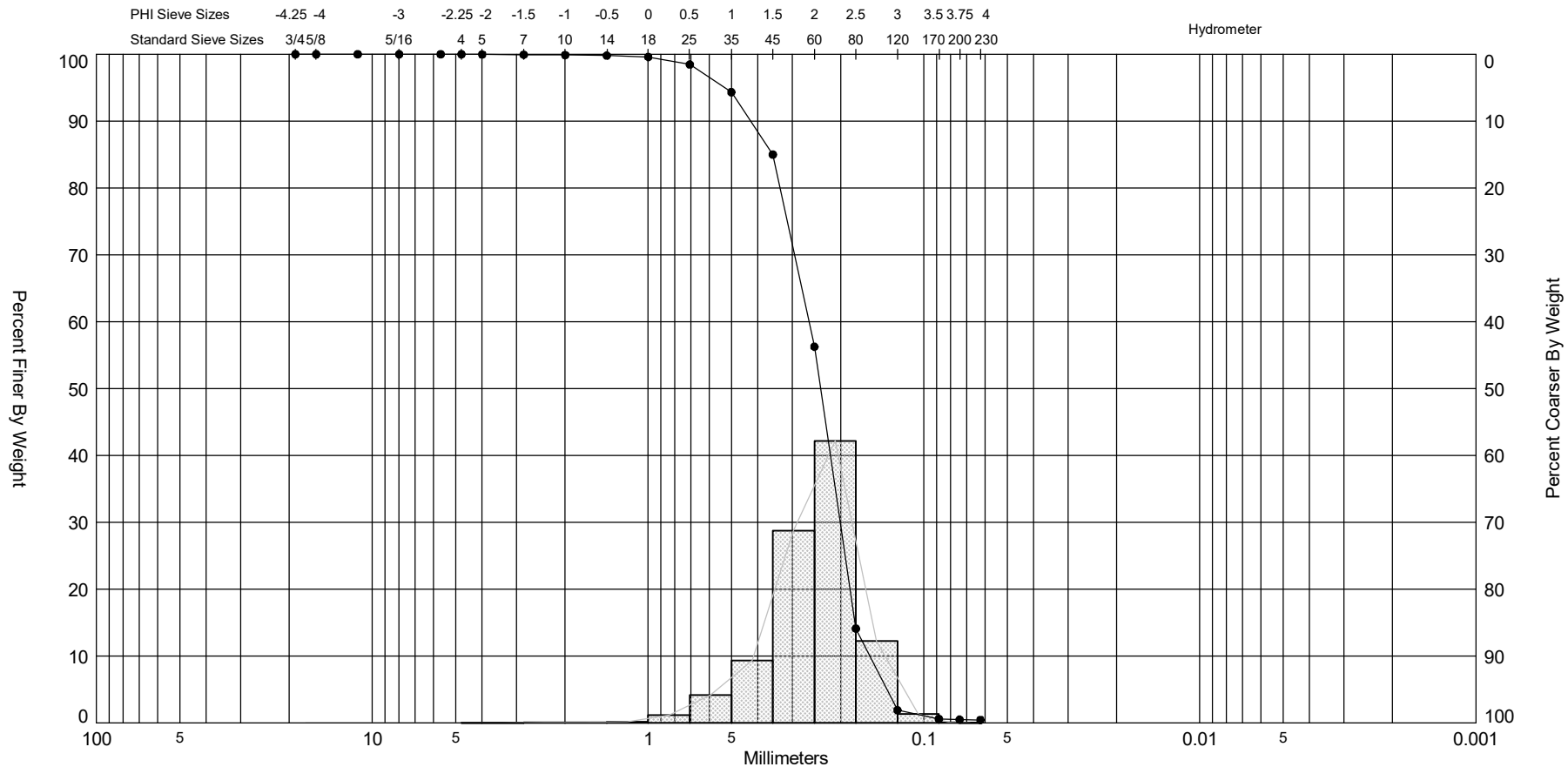
CURRITUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 7/16/20




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	
Toe of Dune COMP	—●—		SP	#200 - 0.28 #230 - 0.19			2.07	2.05	-0.48	5.68	0.51	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite												Analysis Date:	06-17-20
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):	
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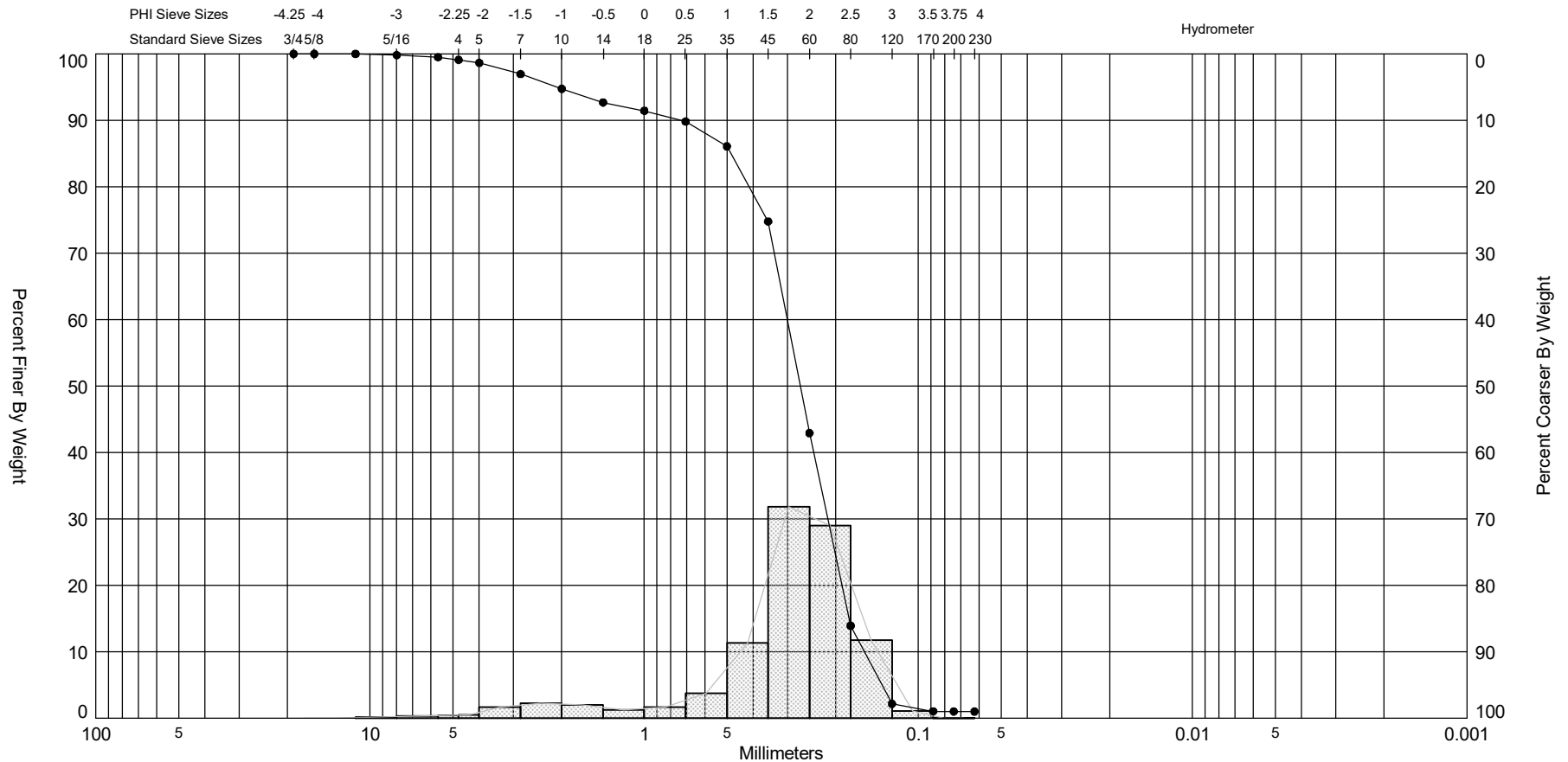
CURRITLUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 7/16/20




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	
Mid Berm COMP	—•—		SP	#200 - 0.49 #230 - 0.45			2.07	1.99	-1.02	6.19	0.57	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite											Analysis Date:	06-17-20	
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):	
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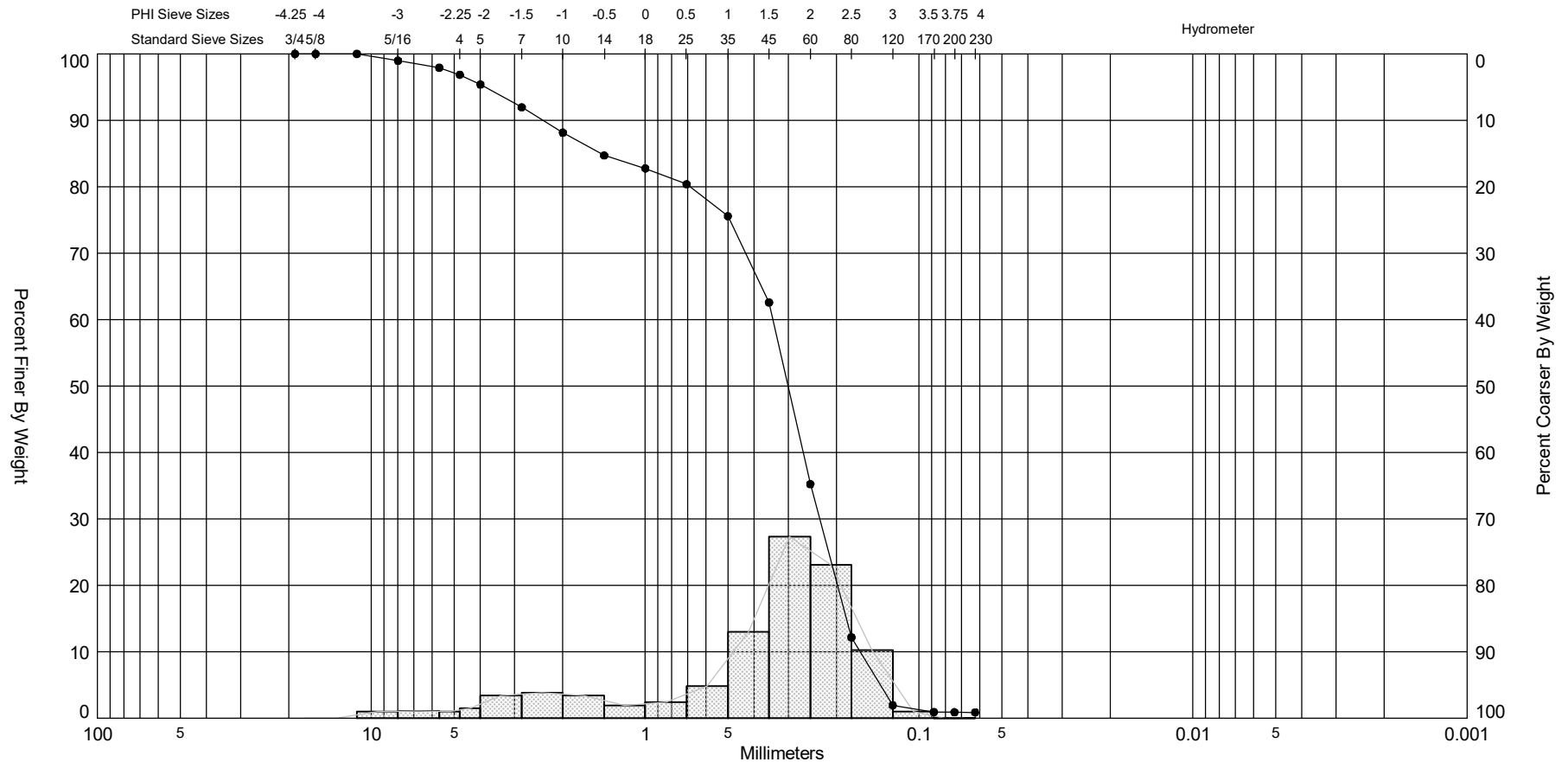
CURRITUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 7/16/20




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	
MHW COMP	—●—		SW	#200 - 1.01 #230 - 0.99			1.89	1.65	-1.94	7.05	1.07	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite												Analysis Date:	06-17-20
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):	
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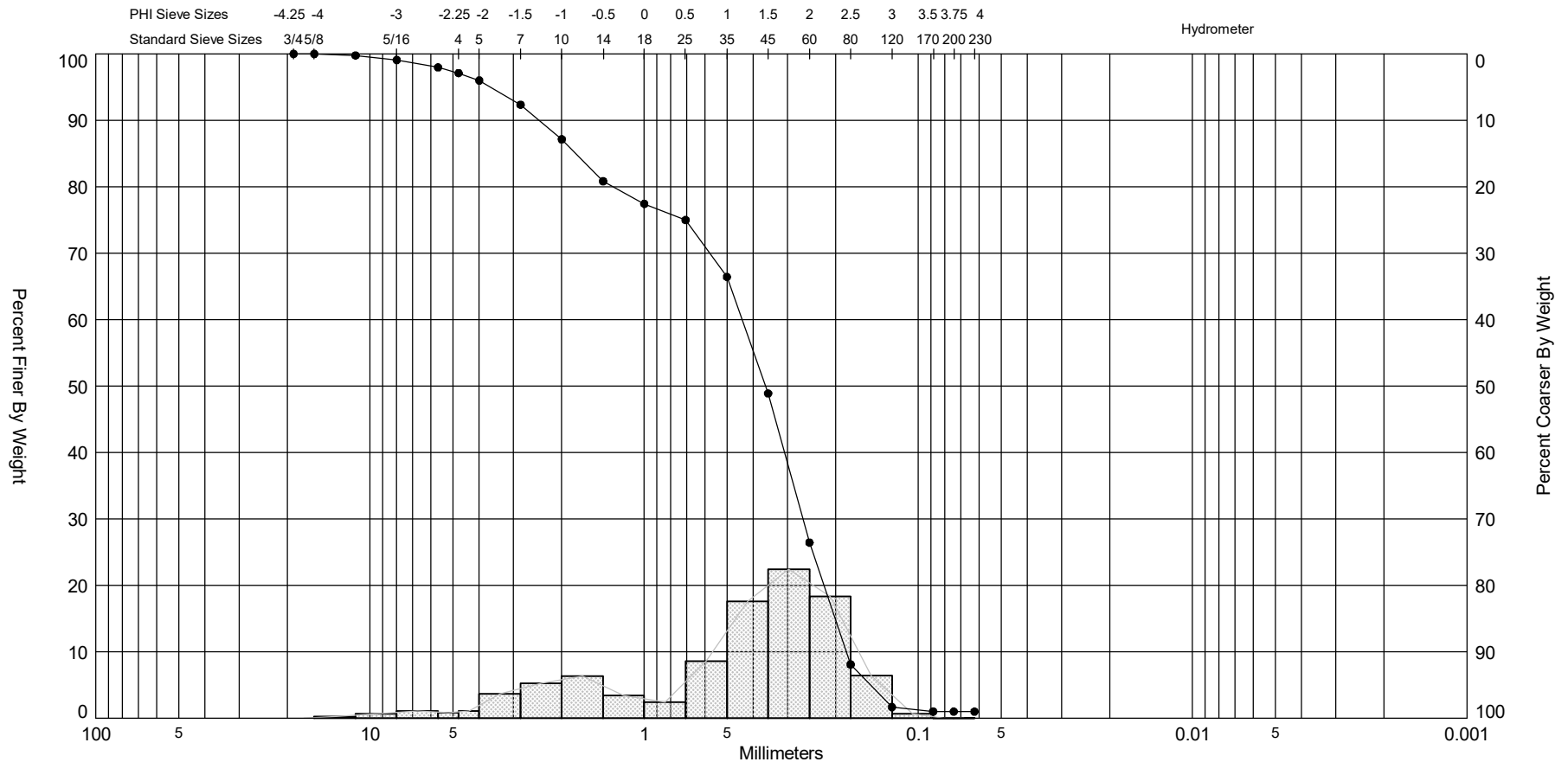
CURRITUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 7/16/20




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	
MTL COMP	—●—		SW	#200 - 0.89 #230 - 0.87			1.73	1.27	-1.39	4.1	1.43	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite												Analysis Date:	06-17-20
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):	
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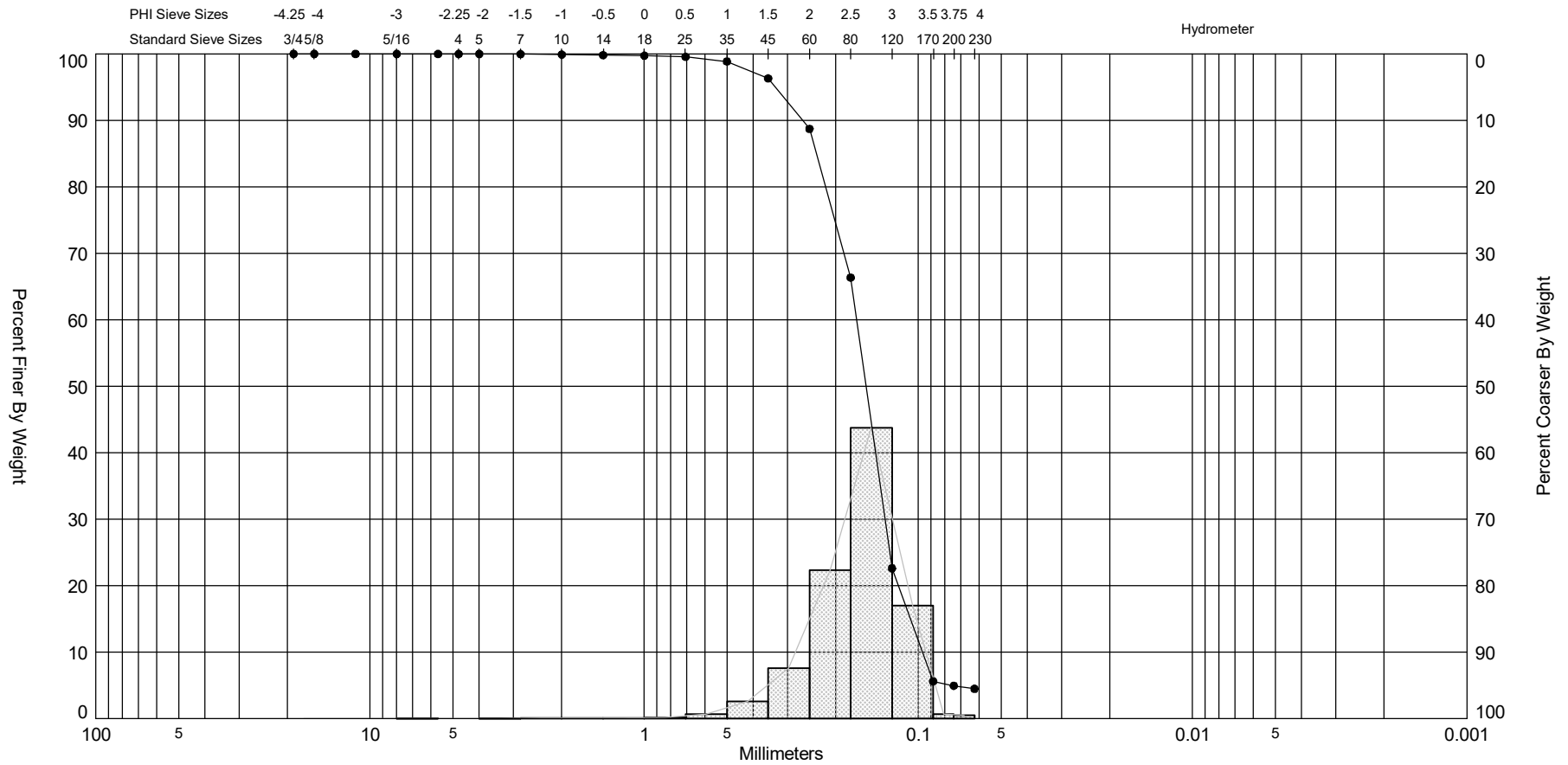
REVISED_CURRITLUCK_NATIVE_BEACH_COMPOSITE.GPJ_8/12/20




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	
MLW COMP	—●—		SW	#200 - 0.99 #230 - 0.98			1.47	1.01	-1.06	3.31	1.42	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite											Analysis Date:	06-17-20	
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):	
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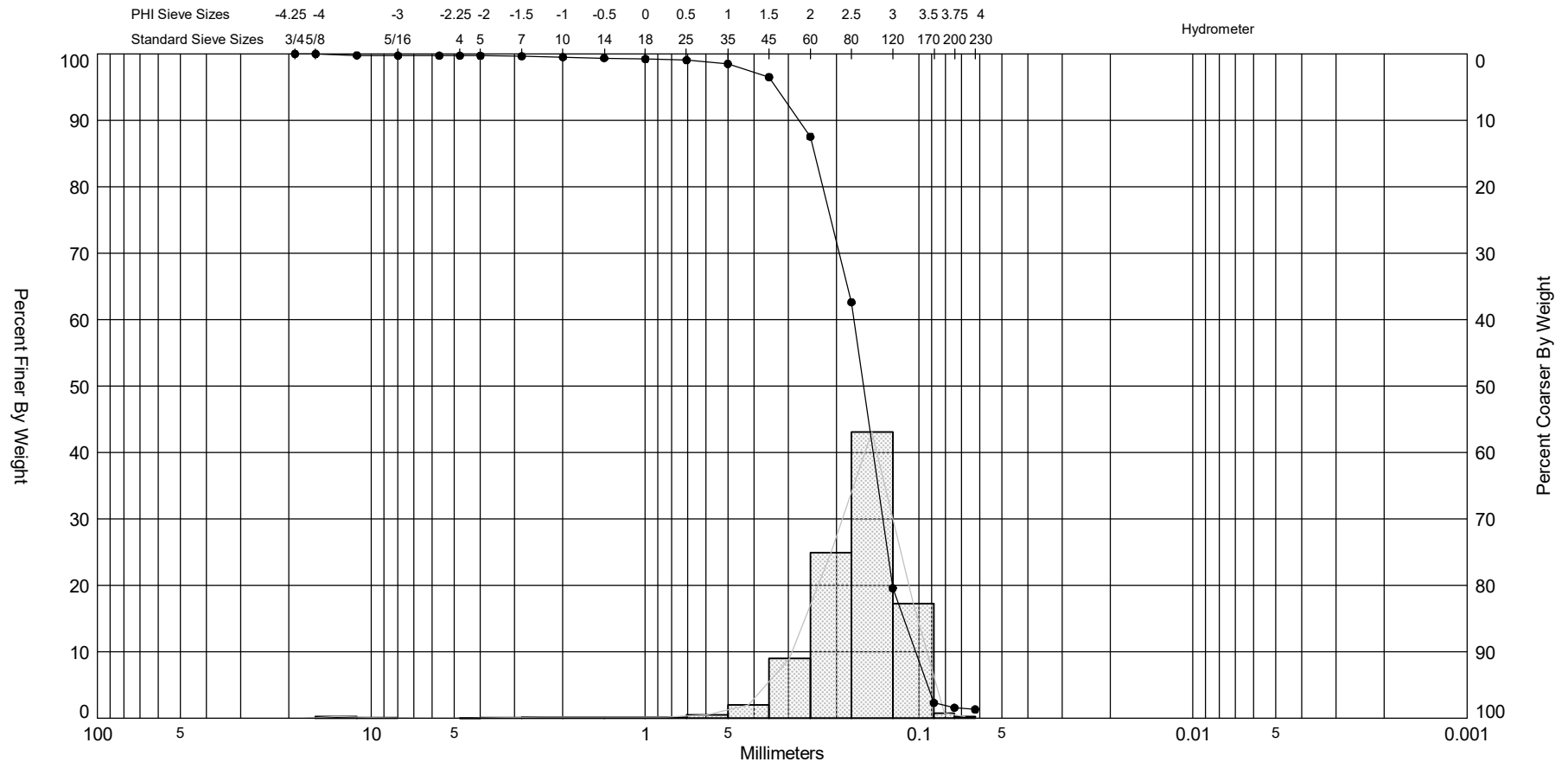
CURRITUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 7/16/20




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	
Trough COMP	—●—		SP	#200 - 4.94 #230 - 4.47			2.69	2.58	-1.43	8.64	0.55	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite											Analysis Date:	06-17-20	
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):		
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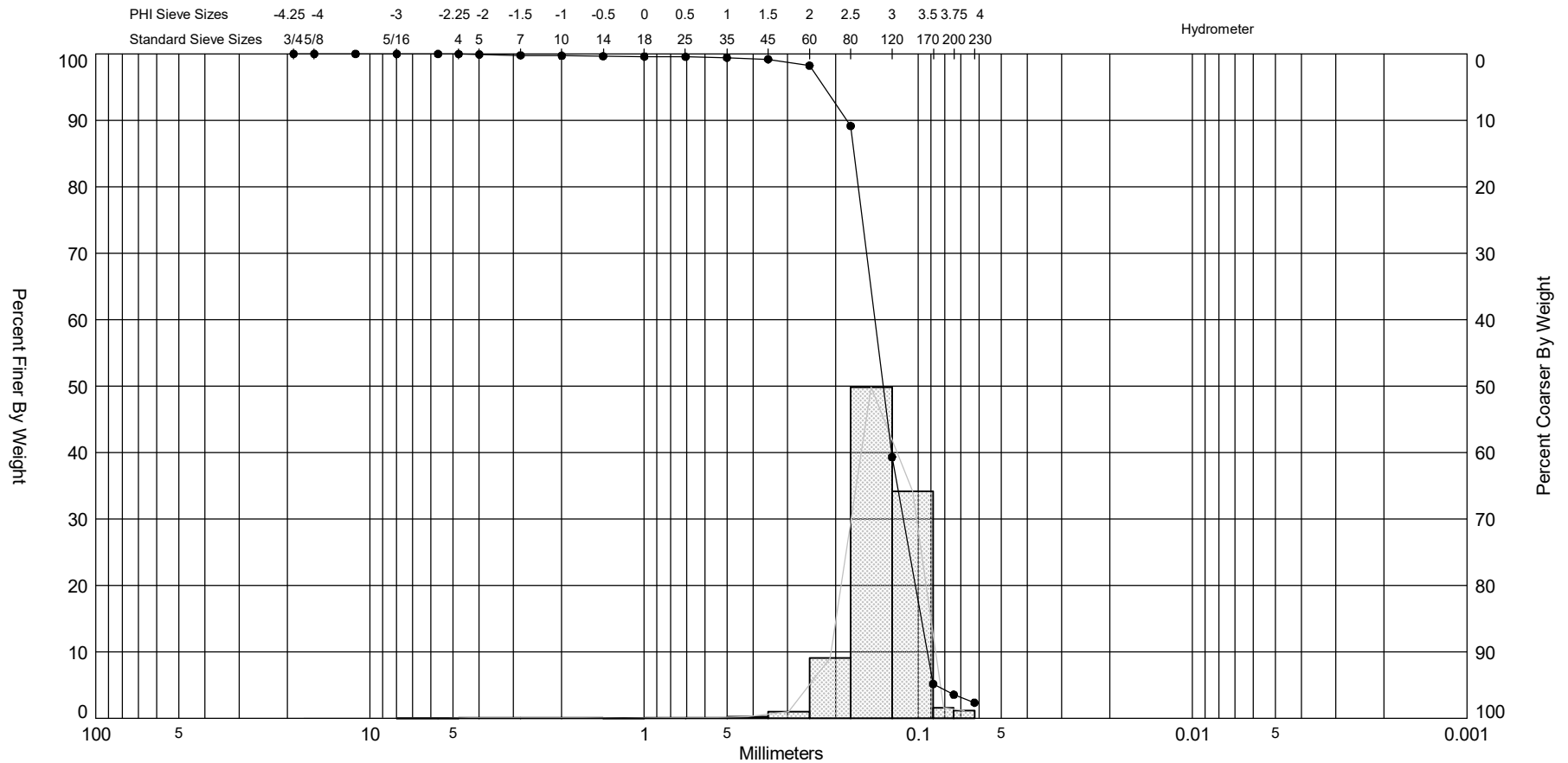
CURRITUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 7/16/20




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	
Bar COMP	—●—		SP	#200 - 1.57 #230 - 1.30			2.65	2.55	-3.42	28.45	0.65	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite												Analysis Date:	06-17-20
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):	
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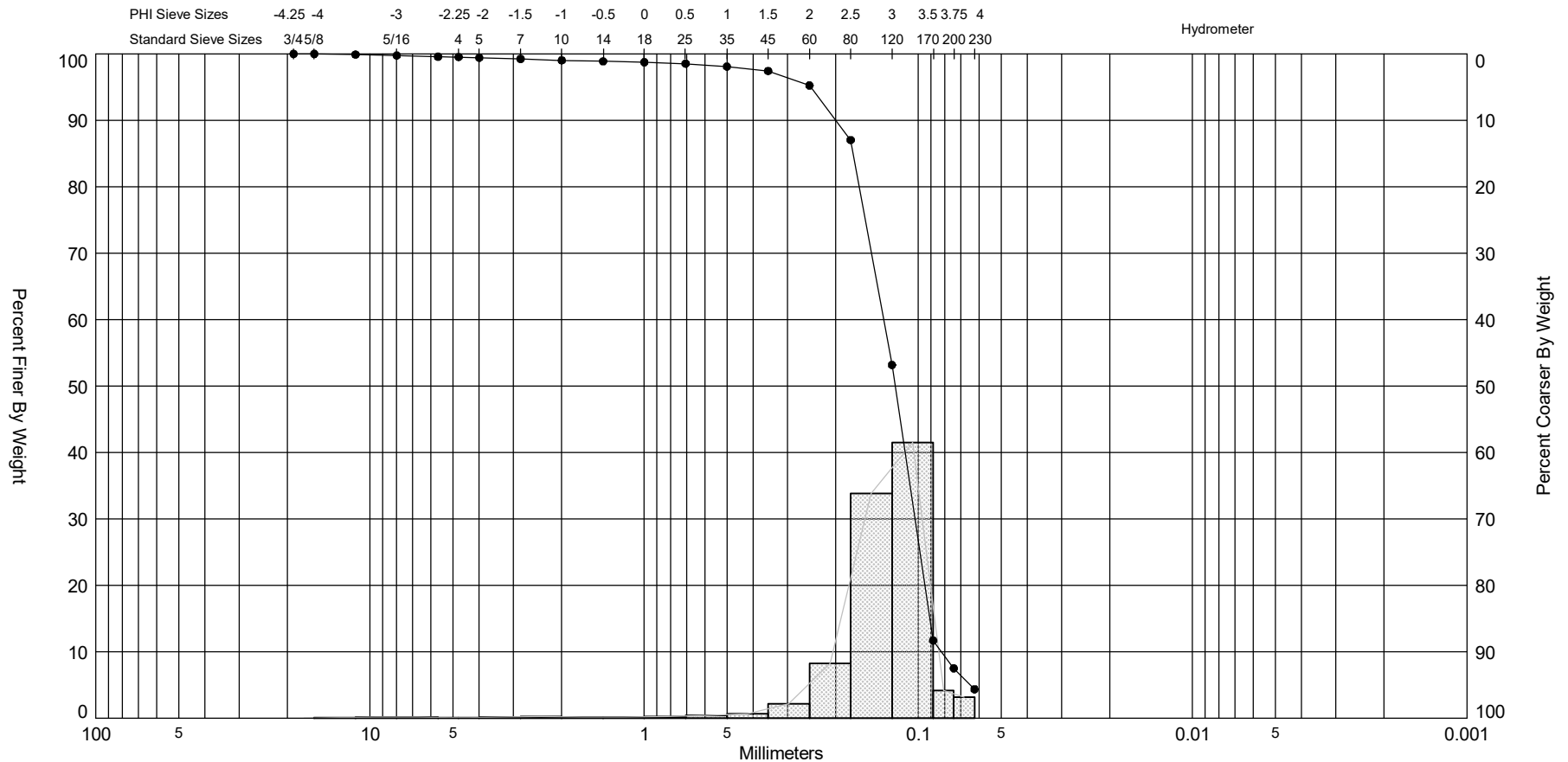
CURRITUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 7/16/20




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	
-16 NAVD COMP	—●—		SP	#200 - 3.55 #230 - 2.35			2.89	2.87	-3.62	34.98	0.47	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite											Analysis Date:	06-17-20	
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):	
												Northing (Y, ft):	
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD 88

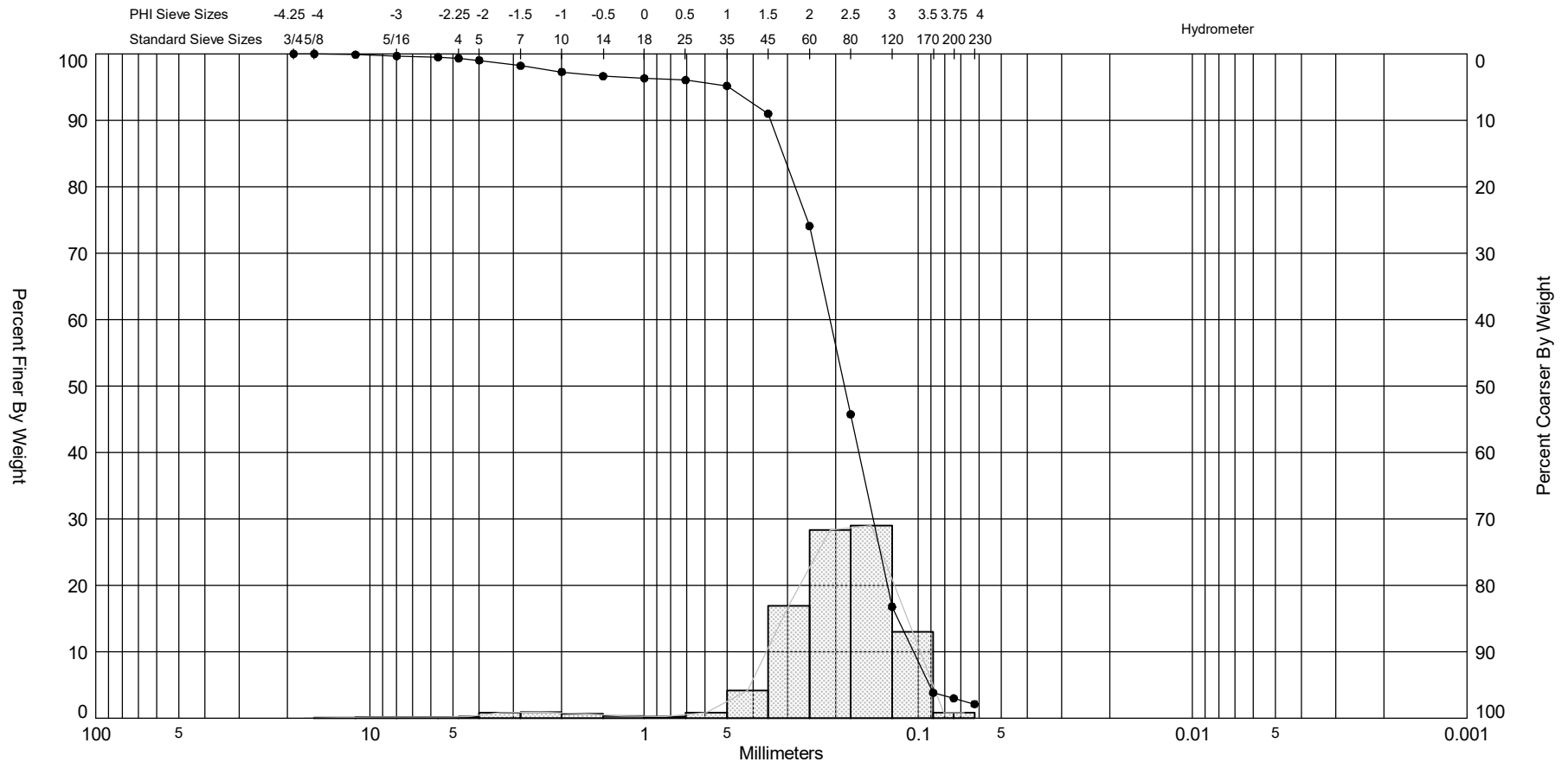
CURRITUCK_BEACH_NATIVE_BEACH_COMPOSITES.GPJ 7/16/20



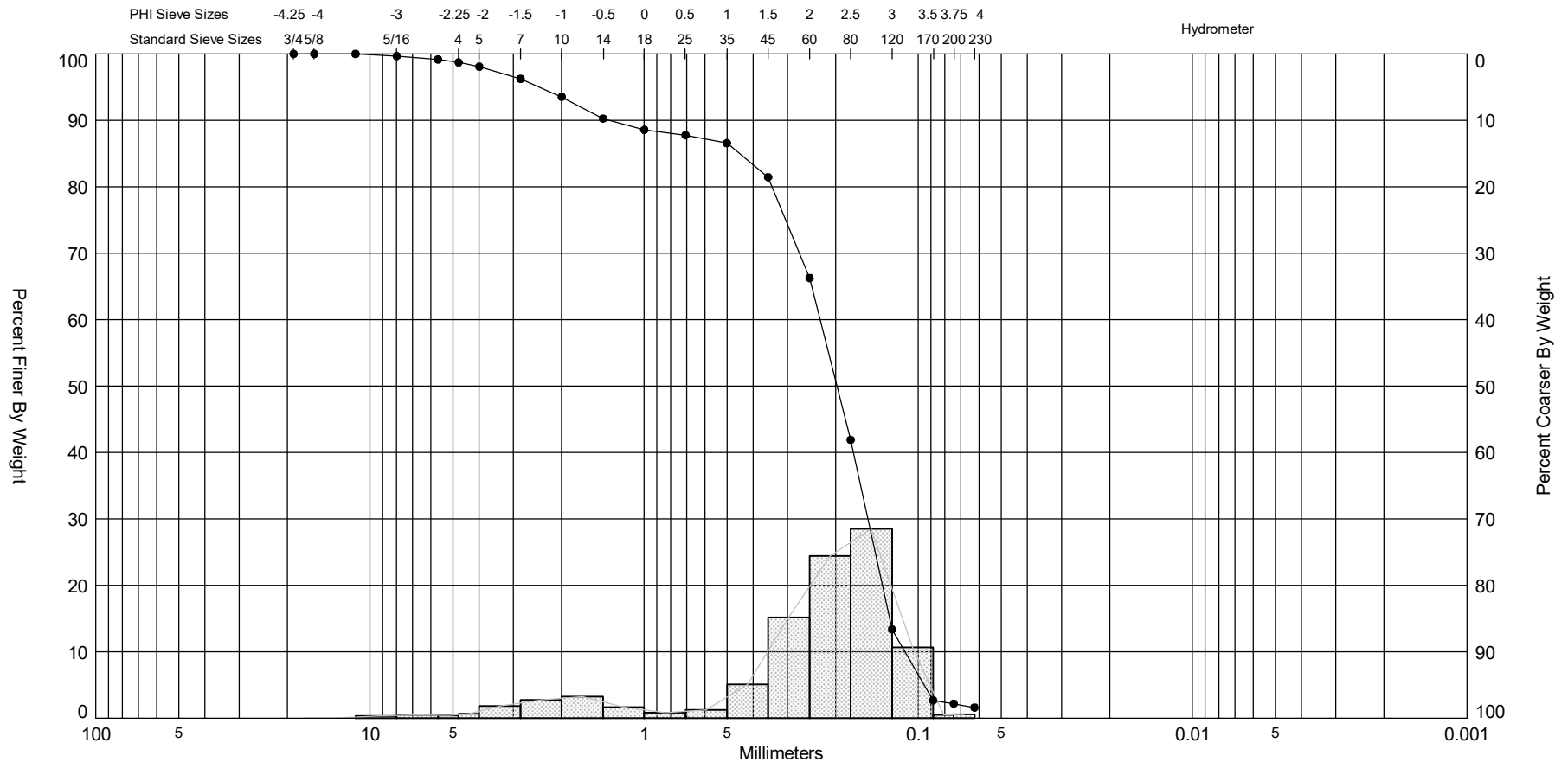
Gravel		Sand			Silt and Clay	
Coarse	Fine	Coarse	Medium	Fine		

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
-20 NAVD COMP	—●—		SP-SM	#200 - 7.51 #230 - 4.36			3.04	2.89	-4.26	30.41	0.74	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite												Analysis Date:	06-17-20
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):	
												Northing (Y, ft):	
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD 88


REVISED_CURRITLUCK_NATIVE_BEACH_COMPOSITE.GPJ_8/12/20



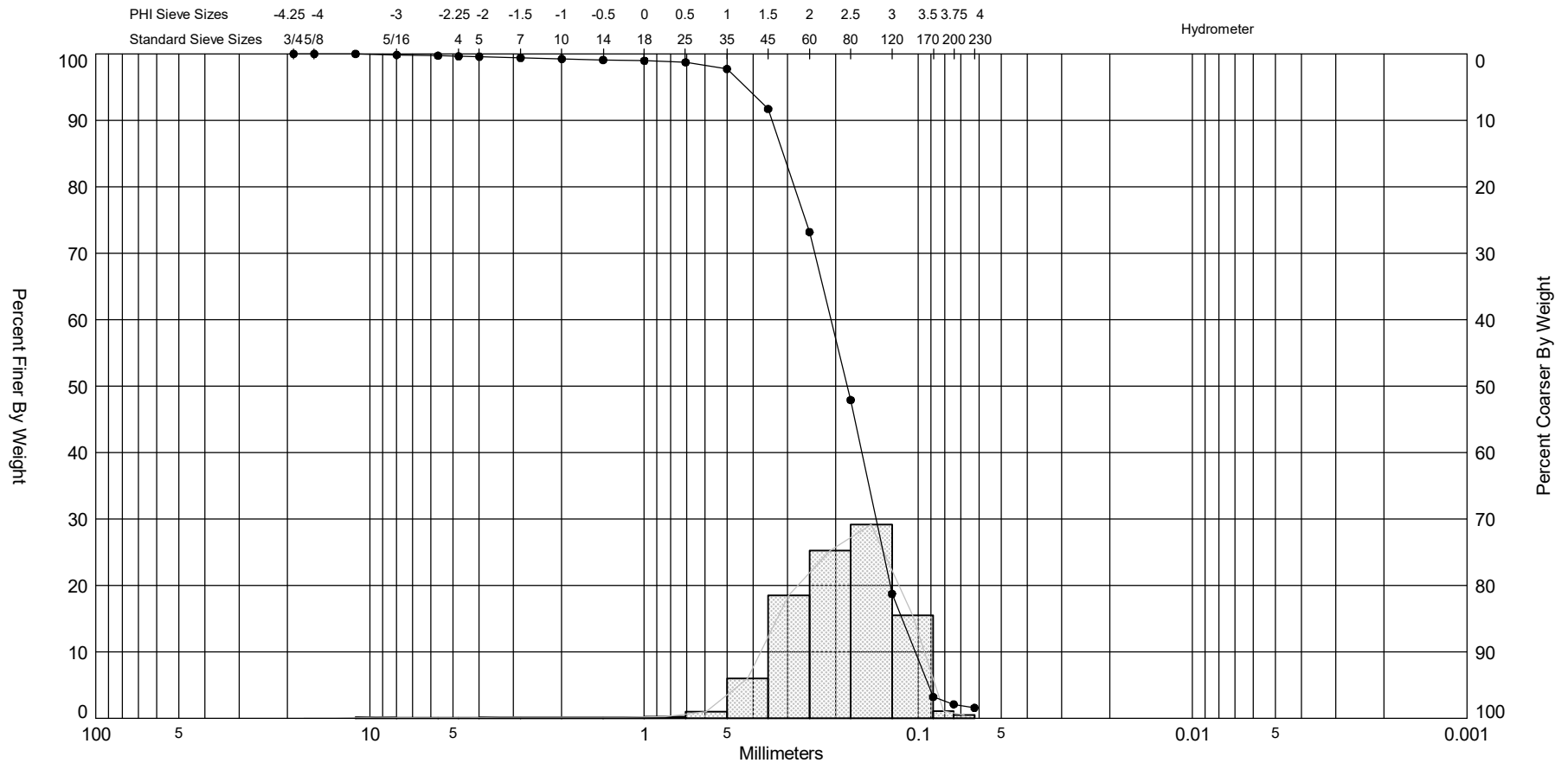
REVISED_CURRITLUCK_NATIVE_BEACH_COMPOSITE.GPJ_8/12/20




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	
PINE ISLAND	—●—		SW	#200 - 2.19 #230 - 1.61			2.33	1.95	-1.76	5.65	1.33	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite											Analysis Date:	08-11-20	
Depths and elevations based on measured values											Analyzed By:	BF	
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD 88

REVISED_CURRITLUCK_NATIVE_BEACH_COMPOSITE.GPJ_8/12/20



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	
REFUGE/RESERVE	—●—		SP	#200 - 2.10 #230 - 1.57			2.46	2.36	-2.03	13.54	0.76	Project Name:	Currituck Beach Monitoring 2020
Comments: Composite												Analysis Date:	08-11-20
Depths and elevations based on measured values												Analyzed By:	BF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD 88