






<b>Granularmetric Report</b> Depths and elevations based on measured values				 <b>CB&amp;I</b> Coastal Planning & Engineering, Inc. 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391 8102			
Project Name: Inventory of Potential Beach Nourishment and Coastal Restoration							
Sand Sources on the Atlantic OCS							
Sample Name: FL-BOEM-2015-VC04 #1							
Analysis Date: 10-29-15							
Analyzed By: SMT		Northing (m):		Coordinate System:		Elevation (ft):	
Easting (m):							
560,596		3,084,074		UTM 17		-49.7 NAVD88	
USCS:		Munsell:		Comments:			
SW		Wet - 5Y-3/1 Dry - 2.5Y-6/1 Washed - 2.5Y-6/1					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shell Hash (%):
95.70	93.76	0.02	0.02	#200 - 2.10 #230 - 2.06		48	
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	0.20	0.21	0.20	0.21	
3.5	-2.50	5.66	0.45	0.47	0.65	0.68	
4	-2.25	4.76	0.33	0.34	0.98	1.02	
5	-2.00	4.00	0.14	0.15	1.12	1.17	
7	-1.50	2.83	0.85	0.89	1.97	2.06	
10	-1.00	2.00	0.88	0.92	2.85	2.98	
14	-0.50	1.41	3.79	3.96	6.64	6.94	
18	0.00	1.00	11.00	11.49	17.64	18.43	
25	0.50	0.71	11.70	12.23	29.34	30.66	
35	1.00	0.50	13.26	13.86	42.60	44.52	
45	1.50	0.35	24.61	25.72	67.21	70.24	
60	2.00	0.25	20.28	21.19	87.49	91.43	
80	2.50	0.18	5.10	5.33	92.59	96.76	
120	3.00	0.13	0.88	0.92	93.47	97.68	
170	3.50	0.09	0.15	0.16	93.62	97.84	
200	3.75	0.07	0.06	0.06	93.68	97.90	
230	4.00	0.06	0.04	0.04	93.72	97.94	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.33	1.82	1.61	1.11	0.27	-0.11	-0.74	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.88	0.54	0.96	-0.89	4.35		

<b>Granularmetric Report</b> Depths and elevations based on measured values				 <b>CB&amp;I</b> Coastal Planning & Engineering, Inc. 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391 8102			
Project Name: Inventory of Potential Beach Nourishment and Coastal Restoration							
Sand Sources on the Atlantic OCS							
Sample Name: FL-BOEM-2015-VC04 #2							
Analysis Date: 10-29-15							
Analyzed By: SMT		Northing (m):		Coordinate System:		Elevation (ft):	
Easting (m):							
560,596		3,084,074		UTM 17		-52.7 NAVD88	
USCS:		Munsell:		Comments:			
SW		Wet - 5Y-3/1 Dry - 5Y-5/1 Washed - 5Y-5/1					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shell Hash (%):
94.71	92.86	0.00	0.02	#200 - 2.03 #230 - 1.99		57	
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	0.07	0.07	0.07	
5	-2.00	4.00	0.18	0.19	0.25	0.26	
7	-1.50	2.83	0.59	0.62	0.84	0.88	
10	-1.00	2.00	1.04	1.10	1.88	1.98	
14	-0.50	1.41	4.21	4.45	6.09	6.43	
18	0.00	1.00	12.80	13.51	18.89	19.94	
25	0.50	0.71	14.64	15.46	33.53	35.40	
35	1.00	0.50	15.94	16.83	49.47	52.23	
45	1.50	0.35	21.89	23.11	71.36	75.34	
60	2.00	0.25	15.61	16.48	86.97	91.82	
80	2.50	0.18	4.63	4.89	91.60	96.71	
120	3.00	0.13	0.92	0.97	92.52	97.68	
170	3.50	0.09	0.22	0.23	92.74	97.91	
200	3.75	0.07	0.06	0.06	92.80	97.97	
230	4.00	0.06	0.04	0.04	92.84	98.01	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.33	1.76	1.49	0.93	0.16	-0.15	-0.66	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.81	0.57	0.89	-0.28	2.92		

<b>Granularmetric Report</b> Depths and elevations based on measured values				 <b>CB&amp;I</b> Coastal Planning & Engineering, Inc. 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391 8102			
Project Name: Inventory of Potential Beach Nourishment and Coastal Restoration							
Sand Sources on the Atlantic OCS							
Sample Name: FL-BOEM-2015-VC04 #3							
Analysis Date: 10-29-15							
Analyzed By: SMT		Northing (m):		Coordinate System:		Elevation (ft):	
Easting (m):							
560,596		3,084,074		UTM 17		-55.7 NAVD88	
USCS:		Munsell:		Comments:			
SW		Wet - 5Y-3/1 Dry - 2.5Y-6/1 Washed - 2.5Y-6/1					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shell Hash (%):
100.40	98.79	0.02	0.03	#200 - 1.73 #230 - 1.65		52	
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	0.19	0.19	0.19	0.19	
3.5	-2.50	5.66	0.00	0.00	0.19	0.19	
4	-2.25	4.76	0.00	0.00	0.19	0.19	
5	-2.00	4.00	0.12	0.12	0.31	0.31	
7	-1.50	2.83	0.46	0.46	0.77	0.77	
10	-1.00	2.00	0.85	0.85	1.62	1.62	
14	-0.50	1.41	4.37	4.35	5.99	5.97	
18	0.00	1.00	12.68	12.63	18.67	18.60	
25	0.50	0.71	14.21	14.15	32.88	32.75	
35	1.00	0.50	14.22	14.16	47.10	46.91	
45	1.50	0.35	21.10	21.02	68.20	67.93	
60	2.00	0.25	20.51	20.43	88.71	88.36	
80	2.50	0.18	7.86	7.83	96.57	96.19	
120	3.00	0.13	1.64	1.63	98.21	97.82	
170	3.50	0.09	0.35	0.35	98.56	98.17	
200	3.75	0.07	0.10	0.10	98.66	98.27	
230	4.00	0.06	0.08	0.08	98.74	98.35	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.42	1.89	1.67	1.07	0.23	-0.10	-0.61	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.92	0.53	0.94	-0.38	3.19		

<b>Granularmetric Report</b> Depths and elevations based on measured values				 <b>CB&amp;I</b> Coastal Planning & Engineering, Inc. 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391 8102			
Project Name: Inventory of Potential Beach Nourishment and Coastal Restoration							
Sand Sources on the Atlantic OCS							
Sample Name: FL-BOEM-2015-VC04 #4							
Analysis Date: 10-29-15							
Analyzed By: SMT		Northing (m):		Coordinate System:		Elevation (ft):	
Easting (m):		3,084,074		UTM 17		-59.9 NAVD88	
USCS:		Munsell:		Comments:			
SP-SM		Wet - 5Y-4/1 Dry - 5Y-5/1 Washed - 5Y-6/1					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shell Hash (%):
88.64	83.30	0.07	0.06	#200 - 6.50 #230 - 6.16		78	
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	0.06	0.07	0.08	0.09	
10	-1.00	2.00	0.27	0.30	0.35	0.39	
14	-0.50	1.41	0.54	0.61	0.89	1.00	
18	0.00	1.00	1.83	2.06	2.72	3.06	
25	0.50	0.71	4.94	5.57	7.66	8.63	
35	1.00	0.50	10.99	12.40	18.65	21.03	
45	1.50	0.35	15.76	17.78	34.41	38.81	
60	2.00	0.25	18.97	21.40	53.38	60.21	
80	2.50	0.18	17.57	19.82	70.95	80.03	
120	3.00	0.13	9.64	10.88	80.59	90.91	
170	3.50	0.09	1.78	2.01	82.37	92.92	
200	3.75	0.07	0.51	0.58	82.88	93.50	
230	4.00	0.06	0.30	0.34	83.18	93.84	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	2.68	2.37	1.76	1.11	0.80	0.17	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.63	0.32	0.85	-0.36	3.24		

<b>Granularmetric Report</b> Depths and elevations based on measured values				 <b>CB&amp;I</b> Coastal Planning & Engineering, Inc. 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391 8102			
Project Name: Inventory of Potential Beach Nourishment and Coastal Restoration							
Sand Sources on the Atlantic OCS							
Sample Name: FL-BOEM-2015-VC04 #5							
Analysis Date: 10-29-15							
Analyzed By: SMT		Northing (m):		Coordinate System:		Elevation (ft):	
Easting (m):							
560,596		3,084,074		UTM 17		-61.5 NAVD88	
USCS:		Munsell:		Comments:			
SC		Wet - 5Y-4/1 Dry - 5Y-6/1 Washed - 5Y-6/1					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shell Hash (%):
83.90	71.94	0.14	0.05	#200 - 15.19 #230 - 14.47		64	
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	0.28	0.33	0.28	0.33	
4	-2.25	4.76	0.00	0.00	0.28	0.33	
5	-2.00	4.00	0.13	0.15	0.41	0.48	
7	-1.50	2.83	0.36	0.43	0.77	0.91	
10	-1.00	2.00	0.56	0.67	1.33	1.58	
14	-0.50	1.41	0.96	1.14	2.29	2.72	
18	0.00	1.00	1.78	2.12	4.07	4.84	
25	0.50	0.71	2.91	3.47	6.98	8.31	
35	1.00	0.50	5.06	6.03	12.04	14.34	
45	1.50	0.35	6.96	8.30	19.00	22.64	
60	2.00	0.25	10.62	12.66	29.62	35.30	
80	2.50	0.18	21.22	25.29	50.84	60.59	
120	3.00	0.13	16.26	19.38	67.10	79.97	
170	3.50	0.09	3.23	3.85	70.33	83.82	
200	3.75	0.07	0.83	0.99	71.16	84.81	
230	4.00	0.06	0.60	0.72	71.76	85.53	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	3.55	2.87	2.29	1.59	1.10	0.02	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.9	0.27	1.03	-1.31	5.4		