




<b>Granularmetric Report</b> Depths and elevations based on measured values				 <b>COASTAL TECH</b> Coastal Geology & Sediments Laboratory  1333 Gateway Dr., Suite 1004 Melbourne, FL 32901 Phone (321) 751-1135 Fax (321) 751-2343			
Project Name: Bonita Beach							
Sample Name: C-13A #1							
Analysis Date: 03-21-12							
Analyzed By: WD							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
684,598.9		753,794.3		Florida State Plane West		-12.5 NAVD 88	
USCS:		Munsell:		Comments:			
SW-SM		Wet - 5Y-5/2 Dry - 5Y-6/1					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
160.71	143.05	0.25	0.00	#200 - 11.61 #230 - 11.15	2.20	26.00	
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	0.40	0.25	0.40	0.25	
5/16"	-3.00	8.00	2.63	1.64	3.03	1.89	
3.5	-2.50	5.66	5.02	3.12	8.05	5.01	
4	-2.25	4.76	1.64	1.02	9.69	6.03	
5	-2.00	4.00	2.04	1.27	11.73	7.30	
7	-1.50	2.83	4.13	2.57	15.86	9.87	
10	-1.00	2.00	2.43	1.51	18.29	11.38	
14	-0.50	1.41	2.29	1.42	20.58	12.80	
18	0.00	1.00	2.35	1.46	22.93	14.26	
25	0.50	0.71	2.14	1.33	25.07	15.59	
35	1.00	0.50	2.02	1.26	27.09	16.85	
45	1.50	0.35	2.14	1.33	29.23	18.18	
60	2.00	0.25	3.03	1.89	32.26	20.07	
80	2.50	0.18	9.08	5.65	41.34	25.72	
120	3.00	0.13	74.05	46.08	115.39	71.80	
170	3.50	0.09	24.21	15.06	139.60	86.86	
200	3.75	0.07	2.46	1.53	142.06	88.39	
230	4.00	0.06	0.74	0.46	142.80	88.85	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	3.41	3.11	2.76	2.44	0.66	-2.50	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.96	0.26	1.83	-1.73	4.59		

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Project Name: Bonita Beach							
Sample Name: C-13A #2							
Analysis Date: 03-21-12							
Analyzed By: WD							
Easting (ft): <div style="text-align: center;">684,598.9</div>		Northing (ft): <div style="text-align: center;">753,794.3</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-14.5 NAVD 88</div>	
USCS: <div style="text-align: center;">SW-SM</div>		Munsell: Wet - 5Y-5/2 Dry - 5Y-6/1		Comments:			
Dry Weight (g): <div style="text-align: center;">151.25</div>	Wash Weight (g): <div style="text-align: center;">135.89</div>	Pan Retained (g): <div style="text-align: center;">0.40</div>	Sieve Loss (%): <div style="text-align: center;">0.01</div>	Fines (%): #200 - 11.04 #230 - 10.44	Organics (%): <div style="text-align: center;">2.50</div>	Carbonates (%): <div style="text-align: center;">25.30</div>	Shells (%):
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	7.53	4.98	7.53	4.98	
7/16"	-3.50	11.31	1.18	0.78	8.71	5.76	
5/16"	-3.00	8.00	0.55	0.36	9.26	6.12	
3.5	-2.50	5.66	0.80	0.53	10.06	6.65	
4	-2.25	4.76	1.05	0.69	11.11	7.34	
5	-2.00	4.00	1.13	0.75	12.24	8.09	
7	-1.50	2.83	2.31	1.53	14.55	9.62	
10	-1.00	2.00	2.83	1.87	17.38	11.49	
14	-0.50	1.41	4.61	3.05	21.99	14.54	
18	0.00	1.00	3.41	2.25	25.40	16.79	
25	0.50	0.71	2.00	1.32	27.40	18.11	
35	1.00	0.50	1.73	1.14	29.13	19.25	
45	1.50	0.35	1.36	0.90	30.49	20.15	
60	2.00	0.25	1.68	1.11	32.17	21.26	
80	2.50	0.18	5.23	3.46	37.40	24.72	
120	3.00	0.13	58.72	38.82	96.12	63.54	
170	3.50	0.09	34.22	22.62	130.34	86.16	
200	3.75	0.07	4.23	2.80	134.57	88.96	
230	4.00	0.06	0.91	0.60	135.48	89.56	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	3.45	3.25	2.83	2.50	-0.18	-3.99	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.87	0.27	2.13	-1.75	4.79		

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Project Name: Bonita Beach							
Sample Name: C-13A #3							
Analysis Date: 03-21-12							
Analyzed By: WD							
Easting (ft): <div style="text-align: center;">684,598.9</div>		Northing (ft): <div style="text-align: center;">753,794.3</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-15.5 NAVD 88</div>	
USCS: <b>SW-SM W/ GRAVEL</b>		Munsell: Wet - 5Y-5/1 Dry - 5Y-6/1		Comments:			
Dry Weight (g): <div style="text-align: center;">162.31</div>	Wash Weight (g): <div style="text-align: center;">152.29</div>	Pan Retained (g): <div style="text-align: center;">0.34</div>	Sieve Loss (%): <div style="text-align: center;">0.14</div>	Fines (%): #200 - 7.03 #230 - 6.51	Organics (%): <div style="text-align: center;">2.50</div>	Carbonates (%): <div style="text-align: center;">48.90</div>	Shells (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	13.27	8.18	13.27	8.18	
5/8"	-4.00	16.00	4.63	2.85	17.90	11.03	
7/16"	-3.50	11.31	8.11	5.00	26.01	16.03	
5/16"	-3.00	8.00	7.67	4.73	33.68	20.76	
3.5	-2.50	5.66	6.36	3.92	40.04	24.68	
4	-2.25	4.76	3.14	1.93	43.18	26.61	
5	-2.00	4.00	3.39	2.09	46.57	28.70	
7	-1.50	2.83	7.28	4.49	53.85	33.19	
10	-1.00	2.00	8.04	4.95	61.89	38.14	
14	-0.50	1.41	7.93	4.89	69.82	43.03	
18	0.00	1.00	5.56	3.43	75.38	46.46	
25	0.50	0.71	3.12	1.92	78.50	48.38	
35	1.00	0.50	2.03	1.25	80.53	49.63	
45	1.50	0.35	1.66	1.02	82.19	50.65	
60	2.00	0.25	2.66	1.64	84.85	52.29	
80	2.50	0.18	7.21	4.44	92.06	56.73	
120	3.00	0.13	37.67	23.21	129.73	79.94	
170	3.50	0.09	18.68	11.51	148.41	91.45	
200	3.75	0.07	2.47	1.52	150.88	92.97	
230	4.00	0.06	0.84	0.52	151.72	93.49	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	3.18	2.89	1.18	-2.46	-3.50		
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.05	0.97	2.52	0.11	1.54		