




Granularmetric Report Depths and elevations based on measured values				 COASTAL TECH Coastal Geology & Sediments Laboratory 1333 Gateway Dr., Suite 1004 Melbourne, FL 32901 Phone (321) 751-1135 Fax (321) 751-2343			
Project Name: Charlotte Co							
Sample Name: CH-12-VC-5 #1							
Analysis Date: 02-10-13							
Analyzed By: MB							
Easting (ft): <div style="text-align: center;">523,030.3</div>		Northing (ft): <div style="text-align: center;">917,047.4</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-37.3 NAVD 88</div>	
USCS: <div style="text-align: center;">SW</div>		Munsell: Wet - 5Y-6/1 Dry - 5Y-7/1		Comments:			
Dry Weight (g): <div style="text-align: center;">167.75</div>	Wash Weight (g): <div style="text-align: center;">167.75</div>	Pan Retained (g): <div style="text-align: center;">0.36</div>	Sieve Loss (%): <div style="text-align: center;">0.01</div>	Fines (%): #200 - 0.25 #230 - 0.20	Organics (%): <div style="text-align: center;">0.64</div>	Carbonates (%): <div style="text-align: center;">16.79</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	0.00	0.00	0.00	0.00	
11/16"	-3.50	11.31	4.68	2.79	4.68	2.79	
5/16"	-3.00	8.00	0.50	0.30	5.18	3.09	
3.5	-2.50	5.66	0.56	0.33	5.74	3.42	
4	-2.25	4.76	0.92	0.55	6.66	3.97	
5	-2.00	4.00	0.38	0.23	7.04	4.20	
7	-1.50	2.83	2.35	1.40	9.39	5.60	
10	-1.00	2.00	2.78	1.66	12.17	7.26	
14	-0.50	1.41	4.86	2.90	17.03	10.16	
18	0.00	1.00	4.22	2.52	21.25	12.68	
25	0.50	0.71	4.37	2.61	25.62	15.29	
35	1.00	0.50	6.57	3.92	32.19	19.21	
45	1.50	0.35	16.08	9.59	48.27	28.80	
60	2.00	0.25	44.55	26.56	92.82	55.36	
80	2.50	0.18	62.91	37.50	155.73	92.86	
120	3.00	0.13	10.14	6.04	165.87	98.90	
170	3.50	0.09	1.22	0.73	167.09	99.63	
200	3.75	0.07	0.20	0.12	167.29	99.75	
230	4.00	0.06	0.09	0.05	167.38	99.80	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.68	2.38	2.26	1.90	1.30	0.59	-1.71	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.45	0.37	1.39	-2.16	7.59		

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Project Name: Charlotte Co							
Sample Name: CH-12-VC-5 #2							
Analysis Date: 02-10-13							
Analyzed By: MB							
Easting (ft): <div style="text-align: center;">523,030.3</div>		Northing (ft): <div style="text-align: center;">917,047.4</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-39.8 NAVD 88</div>	
USCS: <div style="text-align: center;">SW</div>		Munsell: <div style="text-align: center;">Wet - 5Y-6/1 Dry - 2.5Y-7/1</div>		Comments:			
Dry Weight (g): <div style="text-align: center;">174.73</div>	Wash Weight (g): <div style="text-align: center;">166.90</div>	Pan Retained (g): <div style="text-align: center;">0.13</div>	Sieve Loss (%): <div style="text-align: center;">0.17</div>	Fines (%): #200 - 4.92 #230 - 4.73	Organics (%): <div style="text-align: center;">1.42</div>	Carbonates (%): <div style="text-align: center;">51.23</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	0.00	0.00	0.00	0.00	
11/16"	-3.50	11.31	2.23	1.28	2.23	1.28	
5/16"	-3.00	8.00	5.88	3.37	8.11	4.65	
3.5	-2.50	5.66	5.16	2.95	13.27	7.60	
4	-2.25	4.76	2.35	1.34	15.62	8.94	
5	-2.00	4.00	3.25	1.86	18.87	10.80	
7	-1.50	2.83	8.22	4.70	27.09	15.50	
10	-1.00	2.00	9.77	5.59	36.86	21.09	
14	-0.50	1.41	11.59	6.63	48.45	27.72	
18	0.00	1.00	12.52	7.17	60.97	34.89	
25	0.50	0.71	12.04	6.89	73.01	41.78	
35	1.00	0.50	12.52	7.17	85.53	48.95	
45	1.50	0.35	18.10	10.36	103.63	59.31	
60	2.00	0.25	26.20	14.99	129.83	74.30	
80	2.50	0.18	22.32	12.77	152.15	87.07	
120	3.00	0.13	10.84	6.20	162.99	93.27	
170	3.50	0.09	2.65	1.52	165.64	94.79	
200	3.75	0.07	0.50	0.29	166.14	95.08	
230	4.00	0.06	0.34	0.19	166.48	95.27	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.68	2.38	2.03	1.05	-0.71	-1.46	-2.94	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.48	0.72	1.77	-0.58	2.38		

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Project Name: Charlotte Co							
Sample Name: CH-12-VC-5 #3							
Analysis Date: 02-10-13							
Analyzed By: MB							
Easting (ft): <div style="text-align: center;">523,030.3</div>		Northing (ft): <div style="text-align: center;">917,047.4</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-42.8 NAVD 88</div>	
USCS: <div style="text-align: center;">SM W/ GRAVEL</div>		Munsell: Wet - 5Y-5/1 Dry - 5Y-6/1		Comments:			
Dry Weight (g): <div style="text-align: center;">156.28</div>	Wash Weight (g): <div style="text-align: center;">138.54</div>	Pan Retained (g): <div style="text-align: center;">0.54</div>	Sieve Loss (%): <div style="text-align: center;">0.36</div>	Fines (%): #200 - 12.62 #230 - 12.08	Organics (%): <div style="text-align: center;">2.34</div>	Carbonates (%): <div style="text-align: center;">51.59</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	0.00	0.00	0.00	0.00	
11/16"	-3.50	11.31	6.02	3.85	6.02	3.85	
5/16"	-3.00	8.00	6.19	3.96	12.21	7.81	
3.5	-2.50	5.66	5.78	3.70	17.99	11.51	
4	-2.25	4.76	3.49	2.23	21.48	13.74	
5	-2.00	4.00	4.21	2.69	25.69	16.43	
7	-1.50	2.83	7.42	4.75	33.11	21.18	
10	-1.00	2.00	7.68	4.91	40.79	26.09	
14	-0.50	1.41	10.56	6.76	51.35	32.85	
18	0.00	1.00	10.05	6.43	61.40	39.28	
25	0.50	0.71	8.55	5.47	69.95	44.75	
35	1.00	0.50	8.92	5.71	78.87	50.46	
45	1.50	0.35	10.48	6.71	89.35	57.17	
60	2.00	0.25	10.57	6.76	99.92	63.93	
80	2.50	0.18	11.32	7.24	111.24	71.17	
120	3.00	0.13	12.85	8.22	124.09	79.39	
170	3.50	0.09	10.32	6.60	134.41	85.99	
200	3.75	0.07	2.18	1.39	136.59	87.38	
230	4.00	0.06	0.85	0.54	137.44	87.92	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	3.35	2.73	0.96	-1.11	-2.04	-3.35	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.27	0.83	2.13	-0.24	1.93		