





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-4 #1							
Analysis Date: 02-10-13							
Analyzed By: MB							
Easting (ft): <div style="text-align: center;">528,771.5</div>		Northing (ft): <div style="text-align: center;">919,737.5</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-27.8 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;">164.49</div>	Wash Weight (g): <div style="text-align: center;">164.49</div>	Pan Retained (g): <div style="text-align: center;">0.14</div>	Sieve Loss (%): <div style="text-align: center;">0.10</div>	Fines (%): #200 - 0.22 #230 - 0.21	Organics (%): <div style="text-align: center;">0.51</div>	Carbonates (%): <div style="text-align: center;">13.35</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	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	0.04	0.02	0.04	0.02	
4	-2.25	4.76	0.00	0.00	0.04	0.02	
5	-2.00	4.00	0.39	0.24	0.43	0.26	
7	-1.50	2.83	1.45	0.88	1.88	1.14	
10	-1.00	2.00	1.22	0.74	3.10	1.88	
14	-0.50	1.41	3.10	1.88	6.20	3.76	
18	0.00	1.00	3.62	2.20	9.82	5.96	
25	0.50	0.71	4.15	2.52	13.97	8.48	
35	1.00	0.50	9.07	5.51	23.04	13.99	
45	1.50	0.35	23.33	14.18	46.37	28.17	
60	2.00	0.25	46.30	28.15	92.67	56.32	
80	2.50	0.18	57.73	35.10	150.40	91.42	
120	3.00	0.13	12.41	7.54	162.81	98.96	
170	3.50	0.09	1.25	0.76	164.06	99.72	
200	3.75	0.07	0.10	0.06	164.16	99.78	
230	4.00	0.06	0.02	0.01	164.18	99.79	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.74	2.39	2.27	1.89	1.39	1.07	-0.22	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.7	0.31	0.87	-1.69	6.65		

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Project Name: Charlotte Co							
Sample Name: CH-12-VC-4 #2							
Analysis Date: 02-10-13							
Analyzed By: MB							
Easting (ft): <div style="text-align: center;">528,771.5</div>		Northing (ft): <div style="text-align: center;">919,737.5</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-31.8 NAVD 88</div>	
USCS: <div style="text-align: center;">SW</div>		Munsell: Wet - 5Y-7/1 Dry - 5Y-7/1		Comments:			
Dry Weight (g): <div style="text-align: center;">169.50</div>	Wash Weight (g): <div style="text-align: center;">169.50</div>	Pan Retained (g): <div style="text-align: center;">0.32</div>	Sieve Loss (%): <div style="text-align: center;">0.01</div>	Fines (%): #200 - 0.27 #230 - 0.20	Organics (%): <div style="text-align: center;">0.87</div>	Carbonates (%): <div style="text-align: center;">29.46</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	0.88	0.52	0.88	0.52	
5/16"	-3.00	8.00	2.14	1.26	3.02	1.78	
3.5	-2.50	5.66	1.48	0.87	4.50	2.65	
4	-2.25	4.76	1.48	0.87	5.98	3.52	
5	-2.00	4.00	1.32	0.78	7.30	4.30	
7	-1.50	2.83	3.04	1.79	10.34	6.09	
10	-1.00	2.00	3.91	2.31	14.25	8.40	
14	-0.50	1.41	5.59	3.30	19.84	11.70	
18	0.00	1.00	6.33	3.73	26.17	15.43	
25	0.50	0.71	7.41	4.37	33.58	19.80	
35	1.00	0.50	9.91	5.85	43.49	25.65	
45	1.50	0.35	19.44	11.47	62.93	37.12	
60	2.00	0.25	40.85	24.10	103.78	61.22	
80	2.50	0.18	46.87	27.65	150.65	88.87	
120	3.00	0.13	16.29	9.61	166.94	98.48	
170	3.50	0.09	1.88	1.11	168.82	99.59	
200	3.75	0.07	0.23	0.14	169.05	99.73	
230	4.00	0.06	0.12	0.07	169.17	99.80	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.82	2.41	2.25	1.77	0.94	0.07	-1.80	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.34	0.40	1.38	-1.55	5.1		

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Project Name: Charlotte Co							
Sample Name: CH-12-VC-4 #3							
Analysis Date: 02-10-13							
Analyzed By: MB							
Easting (ft): <div style="text-align: center;">528,771.5</div>		Northing (ft): <div style="text-align: center;">919,737.5</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-34.8 NAVD 88</div>	
USCS: <div style="text-align: center;">SM</div>		Munsell: Wet - 5Y-6/2 Dry - 5Y-7/1		Comments:			
Dry Weight (g): <div style="text-align: center;">161.96</div>	Wash Weight (g): <div style="text-align: center;">143.75</div>	Pan Retained (g): <div style="text-align: center;">1.19</div>	Sieve Loss (%): <div style="text-align: center;">0.03</div>	Fines (%): #200 - 13.76 #230 - 12.00	Organics (%): <div style="text-align: center;">1.40</div>	Carbonates (%): <div style="text-align: center;">24.80</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	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	1.07	0.66	1.07	0.66	
3.5	-2.50	5.66	1.08	0.67	2.15	1.33	
4	-2.25	4.76	0.63	0.39	2.78	1.72	
5	-2.00	4.00	0.74	0.46	3.52	2.18	
7	-1.50	2.83	1.73	1.07	5.25	3.25	
10	-1.00	2.00	2.81	1.73	8.06	4.98	
14	-0.50	1.41	3.56	2.20	11.62	7.18	
18	0.00	1.00	4.22	2.61	15.84	9.79	
25	0.50	0.71	4.67	2.88	20.51	12.67	
35	1.00	0.50	5.50	3.40	26.01	16.07	
45	1.50	0.35	6.72	4.15	32.73	20.22	
60	2.00	0.25	7.95	4.91	40.68	25.13	
80	2.50	0.18	18.76	11.58	59.44	36.71	
120	3.00	0.13	51.09	31.54	110.53	68.25	
170	3.50	0.09	24.18	14.93	134.71	83.18	
200	3.75	0.07	4.95	3.06	139.66	86.24	
230	4.00	0.06	2.85	1.76	142.51	88.00	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	3.57	3.23	2.71	1.99	0.99	-1.00	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.09	0.23	1.44	-1.62	5.18		

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Project Name: Charlotte Co							
Sample Name: CH-12-VC-4 #4							
Analysis Date: 02-10-13							
Analyzed By: MB							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
528,771.5		919,737.5		Florida State Plane West		-35.8 NAVD 88	
USCS:		Munsell:		Comments:			
SW-SM		Wet - 5Y-6/1 Dry - 5Y-7/1					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
164.20	156.12	0.76	0.00	#200 - 6.16 #230 - 5.38	0.91	20.44	
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	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.26	0.16	0.26	0.16	
3.5	-2.50	5.66	1.51	0.92	1.77	1.08	
4	-2.25	4.76	0.32	0.19	2.09	1.27	
5	-2.00	4.00	0.48	0.29	2.57	1.56	
7	-1.50	2.83	1.21	0.74	3.78	2.30	
10	-1.00	2.00	1.64	1.00	5.42	3.30	
14	-0.50	1.41	2.51	1.53	7.93	4.83	
18	0.00	1.00	2.74	1.67	10.67	6.50	
25	0.50	0.71	2.77	1.69	13.44	8.19	
35	1.00	0.50	3.71	2.26	17.15	10.45	
45	1.50	0.35	5.80	3.53	22.95	13.98	
60	2.00	0.25	12.00	7.31	34.95	21.29	
80	2.50	0.18	50.23	30.59	85.18	51.88	
120	3.00	0.13	48.96	29.82	134.14	81.70	
170	3.50	0.09	16.97	10.33	151.11	92.03	
200	3.75	0.07	2.97	1.81	154.08	93.84	
230	4.00	0.06	1.28	0.78	155.36	94.62	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	3.11	2.89	2.47	2.06	1.64	-0.45	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.17	0.22	1.15	-2.18	8.41		