




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-9 #1							
Analysis Date: 02-28-13							
Analyzed By: MB							
Easting (ft): <div style="text-align: center;">524,079.2</div>		Northing (ft): <div style="text-align: center;">911,967.1</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-35.9 NAVD 88</div>	
USCS: <div style="text-align: center;">SP</div>		Munsell: Wet - 5Y-6/1 Dry - 5Y-7/1		Comments:			
Dry Weight (g): <div style="text-align: center;">172.65</div>	Wash Weight (g): <div style="text-align: center;">172.65</div>	Pan Retained (g): <div style="text-align: center;">0.21</div>	Sieve Loss (%): <div style="text-align: center;">0.00</div>	Fines (%): #200 - 0.15 #230 - 0.13	Organics (%): <div style="text-align: center;">0.69</div>	Carbonates (%): <div style="text-align: center;">20.39</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	0.00	0.00	0.00	0.00	
4	-2.25	4.76	0.13	0.08	0.13	0.08	
5	-2.00	4.00	0.76	0.44	0.89	0.52	
7	-1.50	2.83	0.99	0.57	1.88	1.09	
10	-1.00	2.00	1.93	1.12	3.81	2.21	
14	-0.50	1.41	3.88	2.25	7.69	4.46	
18	0.00	1.00	5.20	3.01	12.89	7.47	
25	0.50	0.71	6.90	4.00	19.79	11.47	
35	1.00	0.50	12.80	7.41	32.59	18.88	
45	1.50	0.35	39.88	23.10	72.47	41.98	
60	2.00	0.25	62.68	36.30	135.15	78.28	
80	2.50	0.18	31.70	18.36	166.85	96.64	
120	3.00	0.13	4.72	2.73	171.57	99.37	
170	3.50	0.09	0.79	0.46	172.36	99.83	
200	3.75	0.07	0.04	0.02	172.40	99.85	
230	4.00	0.06	0.04	0.02	172.44	99.87	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.46	2.16	1.95	1.61	1.13	0.81	-0.41	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.44	0.37	0.85	-1.49	6.02		

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Project Name: Charlotte Co							
Sample Name: CH-12-VC-9 #2							
Analysis Date: 02-28-13							
Analyzed By: MB							
Easting (ft): <div style="text-align: center;">524,079.2</div>		Northing (ft): <div style="text-align: center;">911,967.1</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-38.9 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;">173.68</div>	Wash Weight (g): <div style="text-align: center;">173.68</div>	Pan Retained (g): <div style="text-align: center;">0.84</div>	Sieve Loss (%): <div style="text-align: center;">0.10</div>	Fines (%): #200 - 0.76 #230 - 0.60	Organics (%): <div style="text-align: center;">0.92</div>	Carbonates (%): <div style="text-align: center;">43.53</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	8.05	4.63	8.05	4.63	
5/16"	-3.00	8.00	9.48	5.46	17.53	10.09	
3.5	-2.50	5.66	10.95	6.30	28.48	16.39	
4	-2.25	4.76	3.62	2.08	32.10	18.47	
5	-2.00	4.00	3.74	2.15	35.84	20.62	
7	-1.50	2.83	8.20	4.72	44.04	25.34	
10	-1.00	2.00	9.41	5.42	53.45	30.76	
14	-0.50	1.41	7.72	4.44	61.17	35.20	
18	0.00	1.00	6.40	3.68	67.57	38.88	
25	0.50	0.71	5.26	3.03	72.83	41.91	
35	1.00	0.50	4.77	2.75	77.60	44.66	
45	1.50	0.35	7.87	4.53	85.47	49.19	
60	2.00	0.25	21.00	12.09	106.47	61.28	
80	2.50	0.18	39.13	22.53	145.60	83.81	
120	3.00	0.13	22.07	12.71	167.67	96.52	
170	3.50	0.09	4.27	2.46	171.94	98.98	
200	3.75	0.07	0.46	0.26	172.40	99.24	
230	4.00	0.06	0.27	0.16	172.67	99.40	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.94	2.51	2.30	1.53	-1.54	-2.53	-3.47	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.44	0.74	2.21	-0.55	1.82		

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Project Name: Charlotte Co							
Sample Name: CH-12-VC-9 #3							
Analysis Date: 02-28-13							
Analyzed By: MB							
Easting (ft): <div style="text-align: center;">524,079.2</div>		Northing (ft): <div style="text-align: center;">911,967.1</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-40.9 NAVD 88</div>	
USCS: <div style="text-align: center;">SW-SM</div>		Munsell: Wet - 5Y-6/1 Dry - 5Y-7/1		Comments:			
Dry Weight (g): <div style="text-align: center;">168.38</div>	Wash Weight (g): <div style="text-align: center;">153.45</div>	Pan Retained (g): <div style="text-align: center;">1.38</div>	Sieve Loss (%): <div style="text-align: center;">0.00</div>	Fines (%): #200 - 11.53 #230 - 9.69	Organics (%): <div style="text-align: center;">1.01</div>	Carbonates (%): <div style="text-align: center;">21.09</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	1.62	0.96	1.62	0.96	
5/16"	-3.00	8.00	0.39	0.23	2.01	1.19	
3.5	-2.50	5.66	0.54	0.32	2.55	1.51	
4	-2.25	4.76	0.41	0.24	2.96	1.75	
5	-2.00	4.00	0.64	0.38	3.60	2.13	
7	-1.50	2.83	1.15	0.68	4.75	2.81	
10	-1.00	2.00	1.45	0.86	6.20	3.67	
14	-0.50	1.41	1.86	1.10	8.06	4.77	
18	0.00	1.00	2.26	1.34	10.32	6.11	
25	0.50	0.71	2.72	1.62	13.04	7.73	
35	1.00	0.50	2.99	1.78	16.03	9.51	
45	1.50	0.35	5.37	3.19	21.40	12.70	
60	2.00	0.25	13.52	8.03	34.92	20.73	
80	2.50	0.18	31.79	18.88	66.71	39.61	
120	3.00	0.13	48.66	28.90	115.37	68.51	
170	3.50	0.09	27.84	16.53	143.21	85.04	
200	3.75	0.07	5.77	3.43	148.98	88.47	
230	4.00	0.06	3.09	1.84	152.07	90.31	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	3.47	3.20	2.68	2.11	1.71	-0.41	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.27	0.21	1.3	-2.36	9.59		