







Granularmetric Report Depths and elevations based on measured values				 COASTAL TECH Coastal Geology & Sediments Laboratory			
Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-B59 #1							
Analysis Date:							
Analyzed By: JB							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
933,097		1,094,513		Florida State Plane East		-46.8 NAVD 88	
USCS:		Munsell:		Comments:			
SW		Wet - 2.5Y-5/2 Dry - 2.5Y-6/2					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
129.44	129.44	0.11	0.00	#200 - 0.13 #230 - 0.09	2.20	82.80	
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	1.78	1.38	1.78	1.38	
5/16"	-3.00	8.00	0.01	0.01	1.79	1.39	
3.5	-2.50	5.66	0.54	0.42	2.33	1.81	
4	-2.25	4.76	0.52	0.40	2.85	2.21	
5	-2.00	4.00	0.57	0.44	3.42	2.65	
7	-1.50	2.83	1.09	0.84	4.51	3.49	
10	-1.00	2.00	1.41	1.09	5.92	4.58	
14	-0.50	1.41	3.95	3.05	9.87	7.63	
18	0.00	1.00	7.99	6.17	17.86	13.80	
25	0.50	0.71	15.94	12.31	33.80	26.11	
35	1.00	0.50	27.10	20.94	60.90	47.05	
45	1.50	0.35	26.21	20.25	87.11	67.30	
60	2.00	0.25	22.37	17.28	109.48	84.58	
80	2.50	0.18	15.16	11.71	124.64	96.29	
120	3.00	0.13	4.08	3.15	128.72	99.44	
170	3.50	0.09	0.48	0.37	129.20	99.81	
200	3.75	0.07	0.08	0.06	129.28	99.87	
230	4.00	0.06	0.05	0.04	129.33	99.91	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.44	1.98	1.72	1.07	0.45	0.09	-0.93	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.96	0.51	1.12	-1.37	6.57		

Granularmetric Report Depths and elevations based on measured values				 COASTAL TECH Coastal Geology & Sediments Laboratory			
Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-B59 #2							
Analysis Date:							
Analyzed By: JB							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
933,097		1,094,513		Florida State Plane East		-50.3 NAVD 88	
USCS:		Munsell:		Comments:			
SW		Wet - 2.5Y-5/2 Dry - 2.5Y-6/2					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
128.89	128.89	0.19	0.00	#200 - 0.21 #230 - 0.14	2.10	82.80	
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	0.64	0.50	0.64	0.50	
3.5	-2.50	5.66	0.53	0.41	1.17	0.91	
4	-2.25	4.76	0.21	0.16	1.38	1.07	
5	-2.00	4.00	0.35	0.27	1.73	1.34	
7	-1.50	2.83	1.03	0.80	2.76	2.14	
10	-1.00	2.00	1.92	1.49	4.68	3.63	
14	-0.50	1.41	3.59	2.79	8.27	6.42	
18	0.00	1.00	7.95	6.17	16.22	12.59	
25	0.50	0.71	15.43	11.97	31.65	24.56	
35	1.00	0.50	26.11	20.26	57.76	44.82	
45	1.50	0.35	25.38	19.69	83.14	64.51	
60	2.00	0.25	23.43	18.18	106.57	82.69	
80	2.50	0.18	15.74	12.21	122.31	94.90	
120	3.00	0.13	5.54	4.30	127.85	99.20	
170	3.50	0.09	0.62	0.48	128.47	99.68	
200	3.75	0.07	0.14	0.11	128.61	99.79	
230	4.00	0.06	0.09	0.07	128.70	99.86	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.51	2.05	1.79	1.13	0.51	0.14	-0.75	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.06	0.48	1.03	-0.86	4.76		

Granularmetric Report Depths and elevations based on measured values				 COASTAL TECH Coastal Geology & Sediments Laboratory 715 North Drive Suite E Melbourne, FL 32934 Phone (321) 751-1135 Fax (321) 751-2343			
Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-B59 #3							
Analysis Date:							
Analyzed By: JB							
Easting (ft): <div style="text-align: center;">933,097</div>		Northing (ft): <div style="text-align: center;">1,094,513</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-53.8 NAVD 88</div>	
USCS: <div style="text-align: center;">SW</div>		Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-6/2		Comments:			
Dry Weight (g): <div style="text-align: center;">117.45</div>	Wash Weight (g): <div style="text-align: center;">117.45</div>	Pan Retained (g): <div style="text-align: center;">0.43</div>	Sieve Loss (%): <div style="text-align: center;">0.00</div>	Fines (%): #200 - 0.47 #230 - 0.38	Organics (%): <div style="text-align: center;">2.10</div>	Carbonates (%): <div style="text-align: center;">80.30</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	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	0.00	0.00	0.00	0.00	
5	-2.00	4.00	0.04	0.03	0.04	0.03	
7	-1.50	2.83	0.33	0.28	0.37	0.31	
10	-1.00	2.00	0.76	0.65	1.13	0.96	
14	-0.50	1.41	2.14	1.82	3.27	2.78	
18	0.00	1.00	3.60	3.07	6.87	5.85	
25	0.50	0.71	6.70	5.70	13.57	11.55	
35	1.00	0.50	13.67	11.64	27.24	23.19	
45	1.50	0.35	23.35	19.88	50.59	43.07	
60	2.00	0.25	27.84	23.70	78.43	66.77	
80	2.50	0.18	25.79	21.96	104.22	88.73	
120	3.00	0.13	10.75	9.15	114.97	97.88	
170	3.50	0.09	1.65	1.40	116.62	99.28	
200	3.75	0.07	0.29	0.25	116.91	99.53	
230	4.00	0.06	0.11	0.09	117.02	99.62	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.84	2.39	2.19	1.65	1.05	0.69	-0.14	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.54	0.34	0.88	-0.71	3.73		

Granularmetric Report Depths and elevations based on measured values				 COASTAL TECH Coastal Geology & Sediments Laboratory 715 North Drive Suite E Melbourne, FL 32934 Phone (321) 751-1135 Fax (321) 751-2343			
Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-B59 #4							
Analysis Date:							
Analyzed By: JB							
Easting (ft): <div style="text-align: center;">933,097</div>		Northing (ft): <div style="text-align: center;">1,094,513</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-56.8 NAVD 88</div>	
USCS: <div style="text-align: center;">SW</div>		Munsell: Wet - 2.5Y-3/1 Dry - 2.5Y-5/1		Comments:			
Dry Weight (g): <div style="text-align: center;">128.96</div>	Wash Weight (g): <div style="text-align: center;">124.73</div>	Pan Retained (g): <div style="text-align: center;">0.30</div>	Sieve Loss (%): <div style="text-align: center;">0.18</div>	Fines (%): #200 - 3.97 #230 - 3.69	Organics (%): <div style="text-align: center;">1.80</div>	Carbonates (%): <div style="text-align: center;">60.00</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	4.32	3.35	4.32	3.35	
5/8"	-4.00	16.00	0.00	0.00	4.32	3.35	
11/16"	-3.50	11.31	2.18	1.69	6.50	5.04	
5/16"	-3.00	8.00	2.69	2.09	9.19	7.13	
3.5	-2.50	5.66	2.50	1.94	11.69	9.07	
4	-2.25	4.76	1.49	1.16	13.18	10.23	
5	-2.00	4.00	1.62	1.26	14.80	11.49	
7	-1.50	2.83	3.13	2.43	17.93	13.92	
10	-1.00	2.00	5.17	4.01	23.10	17.93	
14	-0.50	1.41	6.20	4.81	29.30	22.74	
18	0.00	1.00	6.45	5.00	35.75	27.74	
25	0.50	0.71	7.64	5.92	43.39	33.66	
35	1.00	0.50	11.35	8.80	54.74	42.46	
45	1.50	0.35	15.80	12.25	70.54	54.71	
60	2.00	0.25	21.20	16.44	91.74	71.15	
80	2.50	0.18	18.55	14.38	110.29	85.53	
120	3.00	0.13	10.09	7.82	120.38	93.35	
170	3.50	0.09	2.72	2.11	123.10	95.46	
200	3.75	0.07	0.74	0.57	123.84	96.03	
230	4.00	0.06	0.36	0.28	124.20	96.31	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.39	2.45	2.13	1.31	-0.27	-1.24	-3.52	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.66	0.63	1.67	-0.61	2.9		

Granularmetric Report Depths and elevations based on measured values				 COASTAL TECH Coastal Geology & Sediments Laboratory			
Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-B59 #5							
Analysis Date:							
Analyzed By: JB							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
933,097		1,094,513		Florida State Plane East		-58.3 NAVD 88	
USCS:		Munsell:		Comments:			
SP		Wet - 5Y-3/1 Dry - 2.5Y-5/1					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
110.91	110.91	0.16	0.00	#200 - 0.21 #230 - 0.14	1.70	48.90	
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	0.02	0.02	0.02	0.02	
5	-2.00	4.00	0.20	0.18	0.22	0.20	
7	-1.50	2.83	0.35	0.32	0.57	0.52	
10	-1.00	2.00	0.89	0.80	1.46	1.32	
14	-0.50	1.41	1.63	1.47	3.09	2.79	
18	0.00	1.00	3.69	3.33	6.78	6.12	
25	0.50	0.71	8.03	7.24	14.81	13.36	
35	1.00	0.50	17.03	15.35	31.84	28.71	
45	1.50	0.35	27.63	24.91	59.47	53.62	
60	2.00	0.25	35.02	31.58	94.49	85.20	
80	2.50	0.18	13.11	11.82	107.60	97.02	
120	3.00	0.13	2.41	2.17	110.01	99.19	
170	3.50	0.09	0.55	0.50	110.56	99.69	
200	3.75	0.07	0.11	0.10	110.67	99.79	
230	4.00	0.06	0.08	0.07	110.75	99.86	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.41	1.98	1.84	1.43	0.88	0.59	-0.17	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.31	0.40	0.79	-0.86	4.69		

Granularmetric Report Depths and elevations based on measured values				 COASTAL TECH Coastal Geology & Sediments Laboratory 715 North Drive Suite E Melbourne, FL 32934 Phone (321) 751-1135 Fax (321) 751-2343			
Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-B59 #6							
Analysis Date:							
Analyzed By: JB							
Easting (ft): <div style="text-align: center;">933,097</div>		Northing (ft): <div style="text-align: center;">1,094,513</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-62.8 NAVD 88</div>	
USCS: <div style="text-align: center;">SM</div>		Munsell: Wet - 5Y-4/1 Dry - 5Y-6/2		Comments:			
Dry Weight (g): <div style="text-align: center;">117.75</div>	Wash Weight (g): <div style="text-align: center;">103.86</div>	Pan Retained (g): <div style="text-align: center;">5.11</div>	Sieve Loss (%): <div style="text-align: center;">0.23</div>	Fines (%): #200 - 19.15 #230 - 16.37	Organics (%): <div style="text-align: center;">2.90</div>	Carbonates (%): <div style="text-align: center;">47.70</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	1.05	0.89	1.05	0.89	
3.5	-2.50	5.66	1.59	1.35	2.64	2.24	
4	-2.25	4.76	2.89	2.45	5.53	4.69	
5	-2.00	4.00	2.25	1.91	7.78	6.60	
7	-1.50	2.83	7.71	6.55	15.49	13.15	
10	-1.00	2.00	9.04	7.68	24.53	20.83	
14	-0.50	1.41	9.24	7.85	33.77	28.68	
18	0.00	1.00	5.85	4.97	39.62	33.65	
25	0.50	0.71	4.83	4.10	44.45	37.75	
35	1.00	0.50	5.08	4.31	49.53	42.06	
45	1.50	0.35	5.52	4.69	55.05	46.75	
60	2.00	0.25	5.11	4.34	60.16	51.09	
80	2.50	0.18	4.94	4.20	65.10	55.29	
120	3.00	0.13	10.25	8.70	75.35	63.99	
170	3.50	0.09	14.23	12.08	89.58	76.07	
200	3.75	0.07	5.63	4.78	95.21	80.85	
230	4.00	0.06	3.27	2.78	98.48	83.63	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
		3.46	1.87	-0.73	-1.31	-2.21	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.88	0.54	2.06	-0.13	1.62		