







<b>Granularmetric Report</b> Depths and elevations based on measured values				 <b>COASTAL TECH</b> Coastal Geology & Sediments Laboratory			
Project Name: 2011 SLC Geotech Investigation				715 North Drive Suite E Melbourne, FL 32934 Phone (321) 751-1135 Fax (321) 751-2343			
Sample Name: SLC-11-C105 #1							
Analysis Date:							
Analyzed By: JB							
Easting (ft): <b>935,241</b>		Northing (ft): <b>1,107,568</b>		Coordinate System: <b>Florida State Plane East</b>		Elevation (ft): <b>-38.3 NAVD 88</b>	
USCS: <b>SW</b>		Munsell: Wet - 2.5Y-5/3 Dry - 2.5Y-6/3		Comments:			
Dry Weight (g): <b>149.47</b>	Wash Weight (g): <b>149.47</b>	Pan Retained (g): <b>0.09</b>	Sieve Loss (%): <b>0.00</b>	Fines (%): #200 - 0.09 #230 - 0.07	Organics (%): <b>1.60</b>	Carbonates (%): <b>84.80</b>	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	2.11	1.41	2.11	1.41	
5/16"	-3.00	8.00	0.94	0.63	3.05	2.04	
3.5	-2.50	5.66	2.31	1.55	5.36	3.59	
4	-2.25	4.76	0.80	0.54	6.16	4.13	
5	-2.00	4.00	1.07	0.72	7.23	4.85	
7	-1.50	2.83	3.12	2.09	10.35	6.94	
10	-1.00	2.00	3.95	2.64	14.30	9.58	
14	-0.50	1.41	7.75	5.18	22.05	14.76	
18	0.00	1.00	13.14	8.79	35.19	23.55	
25	0.50	0.71	19.48	13.03	54.67	36.58	
35	1.00	0.50	28.67	19.18	83.34	55.76	
45	1.50	0.35	31.35	20.97	114.69	76.73	
60	2.00	0.25	24.19	16.18	138.88	92.91	
80	2.50	0.18	8.16	5.46	147.04	98.37	
120	3.00	0.13	2.04	1.36	149.08	99.73	
170	3.50	0.09	0.23	0.15	149.31	99.88	
200	3.75	0.07	0.04	0.03	149.35	99.91	
230	4.00	0.06	0.03	0.02	149.38	99.93	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.19	1.72	1.46	0.85	0.06	-0.43	-1.96	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.62	0.65	1.24	-1.22	4.86		

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Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-C105 #2							
Analysis Date:							
Analyzed By: JB							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
935,241		1,107,568		Florida State Plane East		-39.8 NAVD 88	
USCS:		Munsell:		Comments:			
SW		Wet - 2.5Y-4/3 Dry - 2.5Y-6/2					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
159.84	159.84	0.19	-0.08	#200 - 0.07 #230 - 0.03	1.60	86.90	
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	2.96	1.85	2.96	1.85	
11/16"	-3.50	11.31	6.25	3.91	9.21	5.76	
5/16"	-3.00	8.00	4.95	3.10	14.16	8.86	
3.5	-2.50	5.66	5.93	3.71	20.09	12.57	
4	-2.25	4.76	3.58	2.24	23.67	14.81	
5	-2.00	4.00	3.47	2.17	27.14	16.98	
7	-1.50	2.83	6.53	4.09	33.67	21.07	
10	-1.00	2.00	6.66	4.17	40.33	25.24	
14	-0.50	1.41	11.99	7.50	52.32	32.74	
18	0.00	1.00	13.79	8.63	66.11	41.37	
25	0.50	0.71	17.37	10.87	83.48	52.24	
35	1.00	0.50	23.29	14.57	106.77	66.81	
45	1.50	0.35	24.73	15.47	131.50	82.28	
60	2.00	0.25	18.16	11.36	149.66	93.64	
80	2.50	0.18	7.46	4.67	157.12	98.31	
120	3.00	0.13	1.95	1.22	159.07	99.53	
170	3.50	0.09	0.49	0.31	159.56	99.84	
200	3.75	0.07	0.15	0.09	159.71	99.93	
230	4.00	0.06	0.06	0.04	159.77	99.97	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.15	1.58	1.26	0.40	-1.03	-2.11	-3.60	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	-0.04	1.03	1.73	-0.72	2.64		

<b>Granularmetric Report</b> Depths and elevations based on measured values				 <b>COASTAL TECH</b> Coastal Geology & Sediments Laboratory			
Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-C105 #3							
Analysis Date:							
Analyzed By: JB							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
935,241		1,107,568		Florida State Plane East		-45.3 NAVD 88	
USCS:		Munsell:		Comments:			
SP		Wet - 2.5Y-4/2 Dry - 5Y-6/1					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
161.70	161.70	0.27	0.00	#200 - 0.27 #230 - 0.16	1.70	84.70	
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	0.13	0.08	0.13	0.08	
3.5	-2.50	5.66	0.14	0.09	0.27	0.17	
4	-2.25	4.76	0.04	0.02	0.31	0.19	
5	-2.00	4.00	0.14	0.09	0.45	0.28	
7	-1.50	2.83	0.37	0.23	0.82	0.51	
10	-1.00	2.00	0.79	0.49	1.61	1.00	
14	-0.50	1.41	2.34	1.45	3.95	2.45	
18	0.00	1.00	5.84	3.61	9.79	6.06	
25	0.50	0.71	11.04	6.83	20.83	12.89	
35	1.00	0.50	21.03	13.01	41.86	25.90	
45	1.50	0.35	34.64	21.42	76.50	47.32	
60	2.00	0.25	46.01	28.45	122.51	75.77	
80	2.50	0.18	27.83	17.21	150.34	92.98	
120	3.00	0.13	9.07	5.61	159.41	98.59	
170	3.50	0.09	1.59	0.98	161.00	99.57	
200	3.75	0.07	0.26	0.16	161.26	99.73	
230	4.00	0.06	0.17	0.11	161.43	99.84	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.68	2.24	1.99	1.55	0.97	0.62	-0.15	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.43	0.37	0.85	-0.83	4.78		

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Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-C105 #4							
Analysis Date:							
Analyzed By: JB							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
935,241		1,107,568		Florida State Plane East		-47.8 NAVD 88	
USCS:		Munsell:		Comments:			
SW		Wet - 2.5Y-4/2 Dry - 5Y-6/1					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
161.59	161.59	0.46	0.01	#200 - 0.41 #230 - 0.28	1.70	80.10	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	7.63	4.72	7.63	4.72	
5/8"	-4.00	16.00	0.00	0.00	7.63	4.72	
11/16"	-3.50	11.31	0.00	0.00	7.63	4.72	
5/16"	-3.00	8.00	1.04	0.64	8.67	5.36	
3.5	-2.50	5.66	0.51	0.32	9.18	5.68	
4	-2.25	4.76	0.26	0.16	9.44	5.84	
5	-2.00	4.00	0.19	0.12	9.63	5.96	
7	-1.50	2.83	1.09	0.67	10.72	6.63	
10	-1.00	2.00	1.52	0.94	12.24	7.57	
14	-0.50	1.41	3.15	1.95	15.39	9.52	
18	0.00	1.00	4.15	2.57	19.54	12.09	
25	0.50	0.71	6.62	4.10	26.16	16.19	
35	1.00	0.50	13.07	8.09	39.23	24.28	
45	1.50	0.35	22.35	13.83	61.58	38.11	
60	2.00	0.25	39.30	24.32	100.88	62.43	
80	2.50	0.18	39.97	24.74	140.85	87.17	
120	3.00	0.13	16.38	10.14	157.23	97.31	
170	3.50	0.09	3.17	1.96	160.40	99.27	
200	3.75	0.07	0.51	0.32	160.91	99.59	
230	4.00	0.06	0.21	0.13	161.12	99.72	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.89	2.44	2.25	1.74	1.03	0.48	-3.70	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.3	0.41	1.07	-0.71	5.11		

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Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-C105 #5							
Analysis Date:							
Analyzed By: JB							
Easting (ft): <div style="text-align: center;">935,241</div>		Northing (ft): <div style="text-align: center;">1,107,568</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-49.5 NAVD 88</div>	
USCS: <b>SW WITH GRAVEL</b>		Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-6/2		Comments:			
Dry Weight (g): <div style="text-align: center;">187.51</div>	Wash Weight (g): <div style="text-align: center;">187.51</div>	Pan Retained (g): <div style="text-align: center;">0.50</div>	Sieve Loss (%): <div style="text-align: center;">0.00</div>	Fines (%): #200 - 0.40 #230 - 0.27	Organics (%): <div style="text-align: center;">1.70</div>	Carbonates (%): <div style="text-align: center;">88.50</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	4.00	2.13	4.00	2.13	
5/8"	-4.00	16.00	2.74	1.46	6.74	3.59	
11/16"	-3.50	11.31	12.40	6.61	19.14	10.20	
5/16"	-3.00	8.00	9.00	4.80	28.14	15.00	
3.5	-2.50	5.66	10.93	5.83	39.07	20.83	
4	-2.25	4.76	4.08	2.18	43.15	23.01	
5	-2.00	4.00	4.47	2.38	47.62	25.39	
7	-1.50	2.83	10.12	5.40	57.74	30.79	
10	-1.00	2.00	13.41	7.15	71.15	37.94	
14	-0.50	1.41	15.08	8.04	86.23	45.98	
18	0.00	1.00	15.20	8.11	101.43	54.09	
25	0.50	0.71	14.91	7.95	116.34	62.04	
35	1.00	0.50	15.03	8.02	131.37	70.06	
45	1.50	0.35	14.33	7.64	145.70	77.70	
60	2.00	0.25	18.58	9.91	164.28	87.61	
80	2.50	0.18	14.13	7.54	178.41	95.15	
120	3.00	0.13	6.44	3.43	184.85	98.58	
170	3.50	0.09	1.56	0.83	186.41	99.41	
200	3.75	0.07	0.36	0.19	186.77	99.60	
230	4.00	0.06	0.24	0.13	187.01	99.73	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.49	1.82	1.32	-0.25	-2.04	-2.91	-3.89	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	-0.43	1.35	1.96	-0.08	1.99		

<b>Granularmetric Report</b> Depths and elevations based on measured values				 <b>COASTAL TECH</b> 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-C105 #6							
Analysis Date:							
Analyzed By: JB							
Easting (ft): <div style="text-align: center;">935,241</div>		Northing (ft): <div style="text-align: center;">1,107,568</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-54.8 NAVD 88</div>	
USCS: <div style="text-align: center;">SW-SM</div>		Munsell: <div style="text-align: center;">Wet - 5Y-5/2 Dry - 2.5Y-6/1</div>		Comments:			
Dry Weight (g): <div style="text-align: center;">138.24</div>	Wash Weight (g): <div style="text-align: center;">130.39</div>	Pan Retained (g): <div style="text-align: center;">1.09</div>	Sieve Loss (%): <div style="text-align: center;">0.00</div>	Fines (%): #200 - 7.70 #230 - 6.48	Organics (%): <div style="text-align: center;">1.80</div>	Carbonates (%): <div style="text-align: center;">78.20</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	0.08	0.06	0.08	0.06	
7	-1.50	2.83	0.25	0.18	0.33	0.24	
10	-1.00	2.00	0.61	0.44	0.94	0.68	
14	-0.50	1.41	0.89	0.64	1.83	1.32	
18	0.00	1.00	1.90	1.37	3.73	2.69	
25	0.50	0.71	4.24	3.07	7.97	5.76	
35	1.00	0.50	9.60	6.94	17.57	12.70	
45	1.50	0.35	19.37	14.01	36.94	26.71	
60	2.00	0.25	34.84	25.20	71.78	51.91	
80	2.50	0.18	26.37	19.08	98.15	70.99	
120	3.00	0.13	17.52	12.67	115.67	83.66	
170	3.50	0.09	9.51	6.88	125.18	90.54	
200	3.75	0.07	2.43	1.76	127.61	92.30	
230	4.00	0.06	1.69	1.22	129.30	93.52	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	3.02	2.66	1.96	1.44	1.12	0.38	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.89	0.27	0.91	-0.5	4.01		