





<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-C109 #1							
Analysis Date:							
Analyzed By: JB							
Easting (ft): <div style="text-align: center;">936,241</div>		Northing (ft): <div style="text-align: center;">1,108,563</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-41.2 NAVD 88</div>	
USCS: <div style="text-align: center;">SW</div>		Munsell: Wet - 2.5Y-5/3 Dry - 2.5Y-6/2		Comments:			
Dry Weight (g): <div style="text-align: center;">163.87</div>	Wash Weight (g): <div style="text-align: center;">163.87</div>	Pan Retained (g): <div style="text-align: center;">0.19</div>	Sieve Loss (%): <div style="text-align: center;">0.00</div>	Fines (%): #200 - 0.14 #230 - 0.11	Organics (%): <div style="text-align: center;">1.90</div>	Carbonates (%): <div style="text-align: center;">61.90</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	2.20	1.34	2.20	1.34	
5/16"	-3.00	8.00	1.29	0.79	3.49	2.13	
3.5	-2.50	5.66	0.71	0.43	4.20	2.56	
4	-2.25	4.76	0.44	0.27	4.64	2.83	
5	-2.00	4.00	0.65	0.40	5.29	3.23	
7	-1.50	2.83	1.81	1.10	7.10	4.33	
10	-1.00	2.00	3.59	2.19	10.69	6.52	
14	-0.50	1.41	6.52	3.98	17.21	10.50	
18	0.00	1.00	10.86	6.63	28.07	17.13	
25	0.50	0.71	17.43	10.64	45.50	27.77	
35	1.00	0.50	29.86	18.22	75.36	45.99	
45	1.50	0.35	38.64	23.58	114.00	69.57	
60	2.00	0.25	33.43	20.40	147.43	89.97	
80	2.50	0.18	12.84	7.84	160.27	97.81	
120	3.00	0.13	2.79	1.70	163.06	99.51	
170	3.50	0.09	0.49	0.30	163.55	99.81	
200	3.75	0.07	0.08	0.05	163.63	99.86	
230	4.00	0.06	0.05	0.03	163.68	99.89	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.32	1.85	1.63	1.09	0.37	-0.09	-1.35	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.86	0.55	1.17	-1.49	6.24		

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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-C109 #2							
Analysis Date:							
Analyzed By: JB							
Easting (ft): <div style="text-align: center;">936,241</div>		Northing (ft): <div style="text-align: center;">1,108,563</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-43.2 NAVD 88</div>	
USCS: <b>SW WITH GRAVEL</b>		Munsell: Wet - 2.5Y-5/3 Dry - 2.5Y-6/3		Comments:			
Dry Weight (g): <div style="text-align: center;">177.79</div>	Wash Weight (g): <div style="text-align: center;">177.79</div>	Pan Retained (g): <div style="text-align: center;">0.39</div>	Sieve Loss (%): <div style="text-align: center;">0.00</div>	Fines (%): #200 - 0.32 #230 - 0.23	Organics (%): <div style="text-align: center;">1.80</div>	Carbonates (%): <div style="text-align: center;">70.80</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	5.21	2.93	5.21	2.93	
5/8"	-4.00	16.00	5.84	3.28	11.05	6.21	
11/16"	-3.50	11.31	4.62	2.60	15.67	8.81	
5/16"	-3.00	8.00	7.41	4.17	23.08	12.98	
3.5	-2.50	5.66	5.14	2.89	28.22	15.87	
4	-2.25	4.76	3.29	1.85	31.51	17.72	
5	-2.00	4.00	4.18	2.35	35.69	20.07	
7	-1.50	2.83	6.30	3.54	41.99	23.61	
10	-1.00	2.00	6.58	3.70	48.57	27.31	
14	-0.50	1.41	9.99	5.62	58.56	32.93	
18	0.00	1.00	11.84	6.66	70.40	39.59	
25	0.50	0.71	15.66	8.81	86.06	48.40	
35	1.00	0.50	23.61	13.28	109.67	61.68	
45	1.50	0.35	26.86	15.11	136.53	76.79	
60	2.00	0.25	23.93	13.46	160.46	90.25	
80	2.50	0.18	12.29	6.91	172.75	97.16	
120	3.00	0.13	3.39	1.91	176.14	99.07	
170	3.50	0.09	0.88	0.49	177.02	99.56	
200	3.75	0.07	0.22	0.12	177.24	99.68	
230	4.00	0.06	0.16	0.09	177.40	99.77	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.34	1.77	1.44	0.56	-1.31	-2.48	-4.09	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	-0.06	1.04	1.82	-0.55	2.47		

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Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-C109 #3							
Analysis Date:							
Analyzed By: JB							
Easting (ft): <b>936,241</b>		Northing (ft): <b>1,108,563</b>		Coordinate System: <b>Florida State Plane East</b>		Elevation (ft): <b>-47.7 NAVD 88</b>	
USCS: <b>SP</b>		Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-6/2		Comments:			
Dry Weight (g): <b>158.67</b>	Wash Weight (g): <b>158.67</b>	Pan Retained (g): <b>1.05</b>	Sieve Loss (%): <b>0.00</b>	Fines (%): #200 - 0.94 #230 - 0.63	Organics (%): <b>1.90</b>	Carbonates (%): <b>63.90</b>	Shells (%):
<b>Sieve Number</b>	<b>Sieve Size (Phi)</b>	<b>Sieve Size (Millimeters)</b>	<b>Grams Retained</b>	<b>% Weight Retained</b>	<b>Cum. Grams Retained</b>	<b>C. % Weight Retained</b>	
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	0.02	0.01	0.02	0.01	
7	-1.50	2.83	0.12	0.08	0.14	0.09	
10	-1.00	2.00	0.52	0.33	0.66	0.42	
14	-0.50	1.41	1.50	0.95	2.16	1.37	
18	0.00	1.00	3.58	2.26	5.74	3.63	
25	0.50	0.71	7.69	4.85	13.43	8.48	
35	1.00	0.50	17.45	11.00	30.88	19.48	
45	1.50	0.35	33.79	21.30	64.67	40.78	
60	2.00	0.25	49.23	31.03	113.90	71.81	
80	2.50	0.18	29.11	18.35	143.01	90.16	
120	3.00	0.13	10.90	6.87	153.91	97.03	
170	3.50	0.09	2.59	1.63	156.50	98.66	
200	3.75	0.07	0.63	0.40	157.13	99.06	
230	4.00	0.06	0.49	0.31	157.62	99.37	
<b>Phi 5</b>	<b>Phi 16</b>	<b>Phi 25</b>	<b>Phi 50</b>	<b>Phi 75</b>	<b>Phi 84</b>	<b>Phi 95</b>	
2.85	2.33	2.09	1.65	1.13	0.84	0.14	
<b>Moment</b>	<b>Mean Phi</b>	<b>Mean mm</b>	<b>Sorting</b>	<b>Skewness</b>	<b>Kurtosis</b>		
<b>Statistics</b>	1.58	0.33	0.78	-0.48	4.01		

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Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-C109 #4							
Analysis Date:							
Analyzed By: JB							
Easting (ft): <div style="text-align: center;">936,241</div>		Northing (ft): <div style="text-align: center;">1,108,563</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-49.9 NAVD 88</div>	
USCS: <div style="text-align: center;">SW-SM</div>		Munsell: Wet - 5Y-4/1 Dry - 5Y-6/2		Comments:			
Dry Weight (g): <div style="text-align: center;">138.16</div>	Wash Weight (g): <div style="text-align: center;">138.16</div>	Pan Retained (g): <div style="text-align: center;">4.84</div>	Sieve Loss (%): <div style="text-align: center;">0.00</div>	Fines (%): #200 - 5.11 #230 - 3.51	Organics (%): <div style="text-align: center;">2.60</div>	Carbonates (%): <div style="text-align: center;">63.00</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	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	0.24	0.17	0.24	0.17	
4	-2.25	4.76	0.00	0.00	0.24	0.17	
5	-2.00	4.00	0.00	0.00	0.24	0.17	
7	-1.50	2.83	0.10	0.07	0.34	0.24	
10	-1.00	2.00	0.75	0.54	1.09	0.78	
14	-0.50	1.41	2.10	1.52	3.19	2.30	
18	0.00	1.00	4.19	3.03	7.38	5.33	
25	0.50	0.71	7.31	5.29	14.69	10.62	
35	1.00	0.50	12.56	9.09	27.25	19.71	
45	1.50	0.35	18.61	13.47	45.86	33.18	
60	2.00	0.25	25.64	18.56	71.50	51.74	
80	2.50	0.18	25.99	18.81	97.49	70.55	
120	3.00	0.13	21.14	15.30	118.63	85.85	
170	3.50	0.09	8.45	6.12	127.08	91.97	
200	3.75	0.07	4.03	2.92	131.11	94.89	
230	4.00	0.06	2.21	1.60	133.32	96.49	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.77	2.94	2.65	1.95	1.20	0.80	-0.05	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.82	0.28	1.05	-0.53	3.43		