





<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-B45 #1							
Analysis Date:							
Analyzed By: JB							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
931,179		1,091,592		Florida State Plane East		-40.6 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 (%):
160.49	160.49	0.12	0.00	#200 - 0.13 #230 - 0.09	1.90	73.60	
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	1.43	0.89	1.43	0.89	
11/16"	-3.50	11.31	0.00	0.00	1.43	0.89	
5/16"	-3.00	8.00	0.25	0.16	1.68	1.05	
3.5	-2.50	5.66	0.01	0.01	1.69	1.06	
4	-2.25	4.76	0.12	0.07	1.81	1.13	
5	-2.00	4.00	0.15	0.09	1.96	1.22	
7	-1.50	2.83	0.29	0.18	2.25	1.40	
10	-1.00	2.00	0.64	0.40	2.89	1.80	
14	-0.50	1.41	1.66	1.03	4.55	2.83	
18	0.00	1.00	4.99	3.11	9.54	5.94	
25	0.50	0.71	11.91	7.42	21.45	13.36	
35	1.00	0.50	27.13	16.90	48.58	30.26	
45	1.50	0.35	47.60	29.66	96.18	59.92	
60	2.00	0.25	53.46	33.31	149.64	93.23	
80	2.50	0.18	9.01	5.61	158.65	98.84	
120	3.00	0.13	1.12	0.70	159.77	99.54	
170	3.50	0.09	0.38	0.24	160.15	99.78	
200	3.75	0.07	0.15	0.09	160.30	99.87	
230	4.00	0.06	0.07	0.04	160.37	99.91	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.16	1.86	1.73	1.33	0.84	0.58	-0.15	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.19	0.44	0.87	-2.62	15.73		

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Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-B45 #2							
Analysis Date:							
Analyzed By: JB							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
931,179		1,091,592		Florida State Plane East		-44.6 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 (%):
159.93	159.93	0.20	0.00	#200 - 0.15 #230 - 0.11	2.30	88.00	
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	0.32	0.20	0.32	0.20	
5/16"	-3.00	8.00	0.00	0.00	0.32	0.20	
3.5	-2.50	5.66	1.42	0.89	1.74	1.09	
4	-2.25	4.76	0.41	0.26	2.15	1.35	
5	-2.00	4.00	0.99	0.62	3.14	1.97	
7	-1.50	2.83	2.59	1.62	5.73	3.59	
10	-1.00	2.00	4.16	2.60	9.89	6.19	
14	-0.50	1.41	9.70	6.07	19.59	12.26	
18	0.00	1.00	17.25	10.79	36.84	23.05	
25	0.50	0.71	28.22	17.65	65.06	40.70	
35	1.00	0.50	40.10	25.07	105.16	65.77	
45	1.50	0.35	33.12	20.71	138.28	86.48	
60	2.00	0.25	15.34	9.59	153.62	96.07	
80	2.50	0.18	4.54	2.84	158.16	98.91	
120	3.00	0.13	1.11	0.69	159.27	99.60	
170	3.50	0.09	0.30	0.19	159.57	99.79	
200	3.75	0.07	0.09	0.06	159.66	99.85	
230	4.00	0.06	0.07	0.04	159.73	99.89	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
1.94	1.44	1.22	0.69	0.06	-0.33	-1.23	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.57	0.67	0.97	-0.8	4.56		

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Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-B45 #3							
Analysis Date:							
Analyzed By: JB							
Easting (ft): <div style="text-align: center;">931,179</div>		Northing (ft): <div style="text-align: center;">1,091,592</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-48.6 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;">172.65</div>	Wash Weight (g): <div style="text-align: center;">172.65</div>	Pan Retained (g): <div style="text-align: center;">0.73</div>	Sieve Loss (%): <div style="text-align: center;">0.00</div>	Fines (%): #200 - 0.63 #230 - 0.41	Organics (%): <div style="text-align: center;">2.30</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	0.12	0.07	0.12	0.07	
5/16"	-3.00	8.00	0.24	0.14	0.36	0.21	
3.5	-2.50	5.66	0.04	0.02	0.40	0.23	
4	-2.25	4.76	0.13	0.08	0.53	0.31	
5	-2.00	4.00	0.47	0.27	1.00	0.58	
7	-1.50	2.83	1.12	0.65	2.12	1.23	
10	-1.00	2.00	2.42	1.40	4.54	2.63	
14	-0.50	1.41	2.22	1.29	6.76	3.92	
18	0.00	1.00	3.12	1.81	9.88	5.73	
25	0.50	0.71	10.96	6.35	20.84	12.08	
35	1.00	0.50	23.11	13.39	43.95	25.47	
45	1.50	0.35	40.21	23.29	84.16	48.76	
60	2.00	0.25	52.40	30.35	136.56	79.11	
80	2.50	0.18	25.42	14.72	161.98	93.83	
120	3.00	0.13	7.09	4.11	169.07	97.94	
170	3.50	0.09	1.89	1.09	170.96	99.03	
200	3.75	0.07	0.58	0.34	171.54	99.37	
230	4.00	0.06	0.38	0.22	171.92	99.59	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.64	2.17	1.93	1.52	0.98	0.65	-0.20	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.39	0.38	0.9	-1.17	6.41		

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Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-B45 #4							
Analysis Date:							
Analyzed By: JB							
Easting (ft): <div style="text-align: center;">931,179</div>		Northing (ft): <div style="text-align: center;">1,091,592</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-50.6 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;">166.09</div>	Wash Weight (g): <div style="text-align: center;">160.59</div>	Pan Retained (g): <div style="text-align: center;">0.14</div>	Sieve Loss (%): <div style="text-align: center;">0.14</div>	Fines (%): #200 - 4.01 #230 - 3.53	Organics (%): <div style="text-align: center;">2.50</div>	Carbonates (%): <div style="text-align: center;">85.60</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	6.90	4.15	6.90	4.15	
5/8"	-4.00	16.00	1.74	1.05	8.64	5.20	
11/16"	-3.50	11.31	1.37	0.82	10.01	6.02	
5/16"	-3.00	8.00	3.32	2.00	13.33	8.02	
3.5	-2.50	5.66	3.68	2.22	17.01	10.24	
4	-2.25	4.76	2.27	1.37	19.28	11.61	
5	-2.00	4.00	1.48	0.89	20.76	12.50	
7	-1.50	2.83	3.05	1.84	23.81	14.34	
10	-1.00	2.00	5.56	3.35	29.37	17.69	
14	-0.50	1.41	7.54	4.54	36.91	22.23	
18	0.00	1.00	9.72	5.85	46.63	28.08	
25	0.50	0.71	12.33	7.42	58.96	35.50	
35	1.00	0.50	18.77	11.30	77.73	46.80	
45	1.50	0.35	25.28	15.22	103.01	62.02	
60	2.00	0.25	27.93	16.82	130.94	78.84	
80	2.50	0.18	16.04	9.66	146.98	88.50	
120	3.00	0.13	8.39	5.05	155.37	93.55	
170	3.50	0.09	3.03	1.82	158.40	95.37	
200	3.75	0.07	1.03	0.62	159.43	95.99	
230	4.00	0.06	0.79	0.48	160.22	96.47	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.40	2.27	1.89	1.11	-0.26	-1.25	-4.05	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.51	0.70	1.62	-0.56	3.2		