




<b>Granularmetric Report</b> Depths and elevations based on measured values				 <b>COASTAL TECH</b> Coastal Geology & Sediments Laboratory  715-E North Dr. Melbourne, Fl. 32934 Phone (321) 751-1135 Fax (321) 751-2343			
Project Name: Gulf County Supplemental							
Sample Name: C-302 #1							
Analysis Date: 08-08-06							
Analyzed By: JV							
Easting (ft): <b>1,675,809.07</b>		Northing (ft): <b>258,653.11</b>		Coordinate System: <b>Florida State Plane North</b>		Elevation (ft): <b>-37.5 NAVD 88</b>	
USCS: <b>SP</b>		Munsell: <b>Wet - 10YR-8/2</b>		Comments:			
Dry Weight (g): <b>121.08</b>	Wash Weight (g):	Pan Retained (g): <b>0.03</b>	Sieve Loss (%):	Fines (%): <b>#200 - 0.03</b> <b>#230 - 0.03</b>	Organics (%):	Carbonates (%):	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>	
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	0.06	0.05	0.06	0.05	
7	-1.50	2.83	0.45	0.37	0.51	0.42	
10	-1.00	2.00	0.79	0.65	1.30	1.07	
14	-0.50	1.41	1.80	1.49	3.10	2.56	
18	0.00	1.00	5.88	4.86	8.98	7.42	
25	0.50	0.71	25.66	21.19	34.64	28.61	
35	1.00	0.50	35.62	29.42	70.26	58.03	
45	1.50	0.35	39.06	32.26	109.32	90.29	
60	2.00	0.25	9.36	7.73	118.68	98.02	
80	2.50	0.18	2.08	1.72	120.76	99.74	
120	3.00	0.13	0.24	0.20	121.00	99.94	
170	3.50	0.09	0.02	0.02	121.02	99.96	
200	3.75	0.07	0.01	0.01	121.03	99.97	
230	4.00	0.06	0.00	0.00	121.03	99.97	
<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>	
1.80	1.40	1.26	0.86	0.41	0.20	-0.25	
<b>Moment</b>	<b>Mean Phi</b>	<b>Mean mm</b>	<b>Sorting</b>	<b>Skewness</b>	<b>Kurtosis</b>		
<b>Statistics</b>	0.82	0.57	0.62	-0.54	4.43		

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Project Name: Gulf County Supplemental				715-E North Dr. Melbourne, Fl. 32934 Phone (321) 751-1135 Fax (321) 751-2343			
Sample Name: C-302 #2							
Analysis Date: 08-08-06							
Analyzed By: JV							
Easting (ft): <b>1,675,809.07</b>		Northing (ft): <b>258,653.11</b>		Coordinate System: <b>Florida State Plane North</b>		Elevation (ft): <b>-40.0 NAVD 88</b>	
USCS: <b>SW</b>		Munsell: <b>Wet - 10YR-7/2</b>		Comments:			
Dry Weight (g): <b>95.49</b>	Wash Weight (g):	Pan Retained (g): <b>0.04</b>	Sieve Loss (%):	Fines (%): <b>#200 - 4.61</b> <b>#230 - 4.55</b>	Organics (%):	Carbonates (%):	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>	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
11/16"	-3.50	11.31	0.99	1.04	0.99	1.04	
5/16"	-3.00	8.00	0.46	0.48	1.45	1.52	
3.5	-2.50	5.66	0.55	0.58	2.00	2.10	
4	-2.25	4.76	0.52	0.54	2.52	2.64	
5	-2.00	4.00	0.93	0.97	3.45	3.61	
7	-1.50	2.83	0.88	0.92	4.33	4.53	
10	-1.00	2.00	1.29	1.35	5.62	5.88	
14	-0.50	1.41	1.08	1.13	6.70	7.01	
18	0.00	1.00	1.64	1.72	8.34	8.73	
25	0.50	0.71	4.47	4.68	12.81	13.41	
35	1.00	0.50	12.09	12.66	24.90	26.07	
45	1.50	0.35	14.25	14.92	39.15	40.99	
60	2.00	0.25	14.30	14.98	53.45	55.97	
80	2.50	0.18	14.60	15.29	68.05	71.26	
120	3.00	0.13	20.39	21.35	88.44	92.61	
170	3.50	0.09	2.53	2.65	90.97	95.26	
200	3.75	0.07	0.12	0.13	91.09	95.39	
230	4.00	0.06	0.06	0.06	91.15	95.45	
<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>	
3.45	2.80	2.59	1.80	0.96	0.60	-1.33	
<b>Moment</b>	<b>Mean Phi</b>	<b>Mean mm</b>	<b>Sorting</b>	<b>Skewness</b>	<b>Kurtosis</b>		
<b>Statistics</b>	1.5	0.35	1.33	-1.58	6.13		

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Project Name: Gulf County Supplemental							
Sample Name: C-302 #3							
Analysis Date: 11-18-06							
Analyzed By: LA							
Easting (ft): <b>1,675,809.07</b>		Northing (ft): <b>258,653.11</b>		Coordinate System: <b>Florida State Plane North</b>		Elevation (ft): <b>-41.3 NAVD 88</b>	
USCS: <b>ML</b>		Munsell: <b>Wet - 10YR-5/1</b>		Comments:			
Dry Weight (g): <b>103.42</b>	Wash Weight (g): <b>18.68</b>	Pan Retained (g): <b>0.16</b>	Sieve Loss (%): <b>0.18</b>	Fines (%): <b>#200 - 82.46</b> <b>#230 - 82.26</b>	Organics (%): <b>10.20</b>	Carbonates (%): <b>14.60</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>	
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	0.00	0.00	0.00	0.00	
7	-1.50	2.83	0.01	0.01	0.01	0.01	
10	-1.00	2.00	0.08	0.08	0.09	0.09	
14	-0.50	1.41	0.08	0.08	0.17	0.17	
18	0.00	1.00	0.15	0.15	0.32	0.32	
25	0.50	0.71	0.31	0.30	0.63	0.62	
35	1.00	0.50	1.06	1.02	1.69	1.64	
45	1.50	0.35	2.47	2.39	4.16	4.03	
60	2.00	0.25	3.74	3.62	7.90	7.65	
80	2.50	0.18	4.03	3.90	11.93	11.55	
120	3.00	0.13	4.61	4.46	16.54	16.01	
170	3.50	0.09	1.29	1.25	17.83	17.26	
200	3.75	0.07	0.29	0.28	18.12	17.54	
230	4.00	0.06	0.21	0.20	18.33	17.74	
<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>	
					3.00	1.63	
<b>Moment</b>	<b>Mean Phi</b>	<b>Mean mm</b>	<b>Sorting</b>	<b>Skewness</b>	<b>Kurtosis</b>		
<b>Statistics</b>	2.08	0.24	0.84	-0.68	4.08		

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Project Name: Gulf County Supplemental							
Sample Name: C-302 #4							
Analysis Date: 11-18-06							
Analyzed By: LA							
Easting (ft): <b>1,675,809.07</b>		Northing (ft): <b>258,653.11</b>		Coordinate System: <b>Florida State Plane North</b>		Elevation (ft): <b>-44.5 NAVD 88</b>	
USCS: <b>SP</b>		Munsell: <b>Wet - 10YR-8/1</b>		Comments:			
Dry Weight (g): <b>129.21</b>	Wash Weight (g):	Pan Retained (g): <b>0.00</b>	Sieve Loss (%):	Fines (%): <b>#200 - 0.18</b> <b>#230 - 0.16</b>	Organics (%): <b>0.20</b>	Carbonates (%): <b>2.30</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>	
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	0.59	0.46	0.59	0.46	
3.5	-2.50	5.66	0.18	0.14	0.77	0.60	
4	-2.25	4.76	0.00	0.00	0.77	0.60	
5	-2.00	4.00	0.03	0.02	0.80	0.62	
7	-1.50	2.83	0.09	0.07	0.89	0.69	
10	-1.00	2.00	0.17	0.13	1.06	0.82	
14	-0.50	1.41	0.36	0.28	1.42	1.10	
18	0.00	1.00	0.69	0.53	2.11	1.63	
25	0.50	0.71	2.20	1.70	4.31	3.33	
35	1.00	0.50	8.89	6.88	13.20	10.21	
45	1.50	0.35	26.55	20.55	39.75	30.76	
60	2.00	0.25	55.20	42.72	94.95	73.48	
80	2.50	0.18	29.51	22.84	124.46	96.32	
120	3.00	0.13	4.38	3.39	128.84	99.71	
170	3.50	0.09	0.12	0.09	128.96	99.80	
200	3.75	0.07	0.02	0.02	128.98	99.82	
230	4.00	0.06	0.02	0.02	129.00	99.84	
<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>	
2.47	2.23	2.03	1.73	1.36	1.14	0.62	
<b>Moment</b>	<b>Mean Phi</b>	<b>Mean mm</b>	<b>Sorting</b>	<b>Skewness</b>	<b>Kurtosis</b>		
<b>Statistics</b>	1.65	0.32	0.67	-2.7	18.7		