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|--|-------------------------|------------------------------------|-----------------------|--|------------------------------|---|-------------|
| <b>Granularmetric Report</b><br>Depths and elevations based on measured values |                         |                                    |                       |  <b>COASTAL TECH</b><br>Coastal Geology & Sediments Laboratory<br><br>715-E North Dr.<br>Melbourne, Fl. 32934<br>Phone (321) 751-1135<br>Fax (321) 751-2343 |                              |   |             |
| Project Name: Gulf County Supplemental   |                         |                                    |                       |  |                              |   |             |
| Sample Name: RC-8 #1   |                         |                                    |                       |  |                              |   |             |
| Analysis Date: 05-25-06  |                         |                                    |                       |  |                              |   |             |
| Analyzed By: jv  |                         |                                    |                       |  |                              |   |             |
| Easting (ft):<br><b>1,680,739.5</b>  |                         | Northing (ft):<br><b>253,826.8</b> |                       | Coordinate System:<br><b>Florida State Plane North</b>   |                              | Elevation (ft):<br><b>-34.1 NAVD 88</b> |             |
| USCS:<br><b>SP</b>   |                         | Munsell:<br><b>Wet - 10YR-8/1</b>  |                       | Comments:  |                              |   |             |
| Dry Weight (g):<br><b>112.51</b>   | Wash Weight (g):        | Pan Retained (g):<br><b>0.16</b>   | Sieve Loss (%):       | Fines (%):<br><b>#200 - 0.07</b><br><b>#230 - 0.04</b>   | Organics (%):<br><b>0.30</b> | Carbonates (%):<br><b>3.00</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                               | 0.21                  | 0.19   | 0.21                         | 0.19                                    |             |
| 7  | -1.50                   | 2.83                               | 0.20                  | 0.18   | 0.41                         | 0.37                                    |             |
| 10   | -1.00                   | 2.00                               | 0.39                  | 0.35   | 0.80                         | 0.72                                    |             |
| 14   | -0.50                   | 1.41                               | 0.60                  | 0.53   | 1.40                         | 1.25                                    |             |
| 18   | 0.00                    | 1.00                               | 0.76                  | 0.68   | 2.16                         | 1.93                                    |             |
| 25   | 0.50                    | 0.71                               | 1.40                  | 1.24   | 3.56                         | 3.17                                    |             |
| 35   | 1.00                    | 0.50                               | 4.61                  | 4.10   | 8.17                         | 7.27                                    |             |
| 45   | 1.50                    | 0.35                               | 18.32                 | 16.28  | 26.49                        | 23.55                                   |             |
| 60   | 2.00                    | 0.25                               | 53.37                 | 47.44  | 79.86                        | 70.99                                   |             |
| 80   | 2.50                    | 0.18                               | 25.58                 | 22.74  | 105.44                       | 93.73                                   |             |
| 120  | 3.00                    | 0.13                               | 6.07                  | 5.40   | 111.51                       | 99.13                                   |             |
| 170  | 3.50                    | 0.09                               | 0.79                  | 0.70   | 112.30                       | 99.83                                   |             |
| 200  | 3.75                    | 0.07                               | 0.11                  | 0.10   | 112.41                       | 99.93                                   |             |
| 230  | 4.00                    | 0.06                               | 0.03                  | 0.03   | 112.44                       | 99.96                                   |             |
|  |                         |                                    |                       |  |                              |   |             |
| <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>                           |             |
| 2.62   | 2.29                    | 2.09                               | 1.78                  | 1.52   | 1.27                         | 0.72                                    |             |
| <b>Moment</b>  | <b>Mean Phi</b>         | <b>Mean mm</b>                     | <b>Sorting</b>        | <b>Skewness</b>  | <b>Kurtosis</b>              |   |             |
| <b>Statistics</b>  | 1.74                    | 0.30                               | 0.62                  | -1.66  | 10.28                        |   |             |

|  |                         |                                    |                       |  |                              |   |             |
|--|-------------------------|------------------------------------|-----------------------|--|------------------------------|---|-------------|
| <b>Granularmetric Report</b><br>Depths and elevations based on measured values |                         |                                    |                       |  <b>COASTAL TECH</b><br>Coastal Geology & Sediments Laboratory<br><br>715-E North Dr.<br>Melbourne, Fl. 32934<br>Phone (321) 751-1135<br>Fax (321) 751-2343 |                              |   |             |
| Project Name: Gulf County Supplemental   |                         |                                    |                       |  |                              |   |             |
| Sample Name: RC-8 #2   |                         |                                    |                       |  |                              |   |             |
| Analysis Date: 06-20-06  |                         |                                    |                       |  |                              |   |             |
| Analyzed By: jv  |                         |                                    |                       |  |                              |   |             |
| Easting (ft):<br><b>1,680,739.5</b>  |                         | Northing (ft):<br><b>253,826.8</b> |                       | Coordinate System:<br><b>Florida State Plane North</b>   |                              | Elevation (ft):<br><b>-37.6 NAVD 88</b> |             |
| USCS:<br><b>SW</b>   |                         | Munsell:<br><b>Wet - 10YR-8/1</b>  |                       | Comments:  |                              |   |             |
| Dry Weight (g):<br><b>92.19</b>  | Wash Weight (g):        | Pan Retained (g):<br><b>0.07</b>   | Sieve Loss (%):       | Fines (%):<br><b>#200 - 0.10</b><br><b>#230 - 0.09</b>   | Organics (%):<br><b>0.30</b> | Carbonates (%):<br><b>3.60</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                              | 0.96                  | 1.04   | 0.96                         | 1.04                                    |             |
| 5/16"  | -3.00                   | 8.00                               | 0.00                  | 0.00   | 0.96                         | 1.04                                    |             |
| 3.5  | -2.50                   | 5.66                               | 0.75                  | 0.81   | 1.71                         | 1.85                                    |             |
| 4  | -2.25                   | 4.76                               | 0.41                  | 0.44   | 2.12                         | 2.29                                    |             |
| 5  | -2.00                   | 4.00                               | 0.21                  | 0.23   | 2.33                         | 2.52                                    |             |
| 7  | -1.50                   | 2.83                               | 0.29                  | 0.31   | 2.62                         | 2.83                                    |             |
| 10   | -1.00                   | 2.00                               | 0.44                  | 0.48   | 3.06                         | 3.31                                    |             |
| 14   | -0.50                   | 1.41                               | 0.63                  | 0.68   | 3.69                         | 3.99                                    |             |
| 18   | 0.00                    | 1.00                               | 0.60                  | 0.65   | 4.29                         | 4.64                                    |             |
| 25   | 0.50                    | 0.71                               | 1.08                  | 1.17   | 5.37                         | 5.81                                    |             |
| 35   | 1.00                    | 0.50                               | 4.73                  | 5.13   | 10.10                        | 10.94                                   |             |
| 45   | 1.50                    | 0.35                               | 20.89                 | 22.66  | 30.99                        | 33.60                                   |             |
| 60   | 2.00                    | 0.25                               | 39.49                 | 42.84  | 70.48                        | 76.44                                   |             |
| 80   | 2.50                    | 0.18                               | 17.22                 | 18.68  | 87.70                        | 95.12                                   |             |
| 120  | 3.00                    | 0.13                               | 4.02                  | 4.36   | 91.72                        | 99.48                                   |             |
| 170  | 3.50                    | 0.09                               | 0.37                  | 0.40   | 92.09                        | 99.88                                   |             |
| 200  | 3.75                    | 0.07                               | 0.02                  | 0.02   | 92.11                        | 99.90                                   |             |
| 230  | 4.00                    | 0.06                               | 0.01                  | 0.01   | 92.12                        | 99.91                                   |             |
|  |                         |                                    |                       |  |                              |   |             |
| <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>                           |             |
| 2.50   | 2.20                    | 1.98                               | 1.69                  | 1.31   | 1.11                         | 0.15                                    |             |
| <b>Moment</b>  | <b>Mean Phi</b>         | <b>Mean mm</b>                     | <b>Sorting</b>        | <b>Skewness</b>  | <b>Kurtosis</b>              |   |             |
| <b>Statistics</b>  | 1.53                    | 0.35                               | 0.96                  | -3.09  | 15.6                         |   |             |

|  |                         |                                    |                       |  |                            |   |             |
|--|-------------------------|------------------------------------|-----------------------|--|----------------------------|---|-------------|
| <b>Granularmetric Report</b><br>Depths and elevations based on measured values |                         |                                    |                       |  <b>COASTAL TECH</b><br>Coastal Geology & Sediments Laboratory<br><br>715-E North Dr.<br>Melbourne, Fl. 32934<br>Phone (321) 751-1135<br>Fax (321) 751-2343 |                            |   |             |
| Project Name: Gulf County Supplemental   |                         |                                    |                       |  |                            |   |             |
| Sample Name: RC-8 #3   |                         |                                    |                       |  |                            |   |             |
| Analysis Date: 06-20-06  |                         |                                    |                       |  |                            |   |             |
| Analyzed By: jv  |                         |                                    |                       |  |                            |   |             |
| Easting (ft):<br><b>1,680,739.5</b>  |                         | Northing (ft):<br><b>253,826.8</b> |                       | Coordinate System:<br><b>Florida State Plane North</b>   |                            | Elevation (ft):<br><b>-38.3 NAVD 88</b> |             |
| USCS:<br><b>SP</b>   |                         | Munsell:<br><b>Wet - 10YR-8/1</b>  |                       | Comments:  |                            |   |             |
| Dry Weight (g):<br><b>94.48</b>  | Wash Weight (g):        | Pan Retained (g):<br><b>0.21</b>   | Sieve Loss (%):       | Fines (%):<br><b>#200 - 0.33</b><br><b>#230 - 0.29</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                               | 0.64                  | 0.68   | 0.64                       | 0.68                                    |             |
| 4  | -2.25                   | 4.76                               | 0.06                  | 0.06   | 0.70                       | 0.74                                    |             |
| 5  | -2.00                   | 4.00                               | 0.14                  | 0.15   | 0.84                       | 0.89                                    |             |
| 7  | -1.50                   | 2.83                               | 0.51                  | 0.54   | 1.35                       | 1.43                                    |             |
| 10   | -1.00                   | 2.00                               | 0.61                  | 0.65   | 1.96                       | 2.08                                    |             |
| 14   | -0.50                   | 1.41                               | 1.27                  | 1.34   | 3.23                       | 3.42                                    |             |
| 18   | 0.00                    | 1.00                               | 1.43                  | 1.51   | 4.66                       | 4.93                                    |             |
| 25   | 0.50                    | 0.71                               | 2.19                  | 2.32   | 6.85                       | 7.25                                    |             |
| 35   | 1.00                    | 0.50                               | 6.57                  | 6.95   | 13.42                      | 14.20                                   |             |
| 45   | 1.50                    | 0.35                               | 23.02                 | 24.36  | 36.44                      | 38.56                                   |             |
| 60   | 2.00                    | 0.25                               | 36.36                 | 38.48  | 72.80                      | 77.04                                   |             |
| 80   | 2.50                    | 0.18                               | 17.44                 | 18.46  | 90.24                      | 95.50                                   |             |
| 120  | 3.00                    | 0.13                               | 3.42                  | 3.62   | 93.66                      | 99.12                                   |             |
| 170  | 3.50                    | 0.09                               | 0.44                  | 0.47   | 94.10                      | 99.59                                   |             |
| 200  | 3.75                    | 0.07                               | 0.08                  | 0.08   | 94.18                      | 99.67                                   |             |
| 230  | 4.00                    | 0.06                               | 0.04                  | 0.04   | 94.22                      | 99.71                                   |             |
|  |                         |                                    |                       |  |                            |   |             |
| <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>                           |             |
| 2.49   | 2.19                    | 1.97                               | 1.65                  | 1.22   | 1.04                       | 0.02                                    |             |
| <b>Moment</b>  | <b>Mean Phi</b>         | <b>Mean mm</b>                     | <b>Sorting</b>        | <b>Skewness</b>  | <b>Kurtosis</b>            |   |             |
| <b>Statistics</b>  | 1.52                    | 0.35                               | 0.82                  | -2.03  | 10                         |   |             |

|  |                            |                             |                         |  |                     |                                  |             |
|--|----------------------------|-----------------------------|-------------------------|--|---------------------|----------------------------------|-------------|
| <b>Granularmetric Report</b><br>Depths and elevations based on measured values |                            |                             |                         |  <b>COASTAL TECH</b><br>Coastal Geology & Sediments Laboratory<br><br>715-E North Dr.<br>Melbourne, Fl. 32934<br>Phone (321) 751-1135<br>Fax (321) 751-2343 |                     |                                  |             |
| Project Name: Gulf County Supplemental   |                            |                             |                         |  |                     |                                  |             |
| Sample Name: RC-8 #4   |                            |                             |                         |  |                     |                                  |             |
| Analysis Date: 05-25-06  |                            |                             |                         |  |                     |                                  |             |
| Analyzed By: jv  |                            |                             |                         |  |                     |                                  |             |
| Easting (ft):<br>1,680,739.5   |                            | Northing (ft):<br>253,826.8 |                         | Coordinate System:<br>Florida State Plane North  |                     | Elevation (ft):<br>-40.6 NAVD 88 |             |
| USCS:<br>SP-SM   |                            | Munsell:<br>Wet - 10YR-4/1  |                         | Comments:  |                     |                                  |             |
| Dry Weight (g):<br>115.54  | Wash Weight (g):<br>108.02 | Pan Retained (g):<br>0.20   | Sieve Loss (%):<br>0.00 | Fines (%):<br>#200 - 6.96<br>#230 - 6.67   | Organics (%):       | Carbonates (%):                  | Shells (%): |
| Sieve Number   | Sieve Size (Phi)           | Sieve Size (Millimeters)    | Grams Retained          | % Weight Retained  | Cum. Grams Retained | C. % Weight Retained             |             |
| 5/8"   | -4.00                      | 16.00                       | 10.22                   | 8.85   | 10.22               | 8.85                             |             |
| 11/16"   | -3.50                      | 11.31                       | 1.37                    | 1.19   | 11.59               | 10.04                            |             |
| 5/16"  | -3.00                      | 8.00                        | 3.94                    | 3.41   | 15.53               | 13.45                            |             |
| 3.5  | -2.50                      | 5.66                        | 1.59                    | 1.38   | 17.12               | 14.83                            |             |
| 4  | -2.25                      | 4.76                        | 0.86                    | 0.74   | 17.98               | 15.57                            |             |
| 5  | -2.00                      | 4.00                        | 0.90                    | 0.78   | 18.88               | 16.35                            |             |
| 7  | -1.50                      | 2.83                        | 2.26                    | 1.96   | 21.14               | 18.31                            |             |
| 10   | -1.00                      | 2.00                        | 2.21                    | 1.91   | 23.35               | 20.22                            |             |
| 14   | -0.50                      | 1.41                        | 2.44                    | 2.11   | 25.79               | 22.33                            |             |
| 18   | 0.00                       | 1.00                        | 2.13                    | 1.84   | 27.92               | 24.17                            |             |
| 25   | 0.50                       | 0.71                        | 3.66                    | 3.17   | 31.58               | 27.34                            |             |
| 35   | 1.00                       | 0.50                        | 10.51                   | 9.10   | 42.09               | 36.44                            |             |
| 45   | 1.50                       | 0.35                        | 20.62                   | 17.85  | 62.71               | 54.29                            |             |
| 60   | 2.00                       | 0.25                        | 17.51                   | 15.15  | 80.22               | 69.44                            |             |
| 80   | 2.50                       | 0.18                        | 9.95                    | 8.61   | 90.17               | 78.05                            |             |
| 120  | 3.00                       | 0.13                        | 13.05                   | 11.29  | 103.22              | 89.34                            |             |
| 170  | 3.50                       | 0.09                        | 3.81                    | 3.30   | 107.03              | 92.64                            |             |
| 200  | 3.75                       | 0.07                        | 0.46                    | 0.40   | 107.49              | 93.04                            |             |
| 230  | 4.00                       | 0.06                        | 0.33                    | 0.29   | 107.82              | 93.33                            |             |
|  |                            |                             |                         |  |                     |                                  |             |
| Phi 5  | Phi 16                     | Phi 25                      | Phi 50                  | Phi 75   | Phi 84              | Phi 95                           |             |
|  | 2.76                       | 2.32                        | 1.38                    | 0.13   | -2.11               |                                  |             |
| Moment   | Mean Phi                   | Mean mm                     | Sorting                 | Skewness   | Kurtosis            |                                  |             |
| Statistics   | 0.56                       | 0.68                        | 1.67                    | -0.29  | 2.86                |                                  |             |