
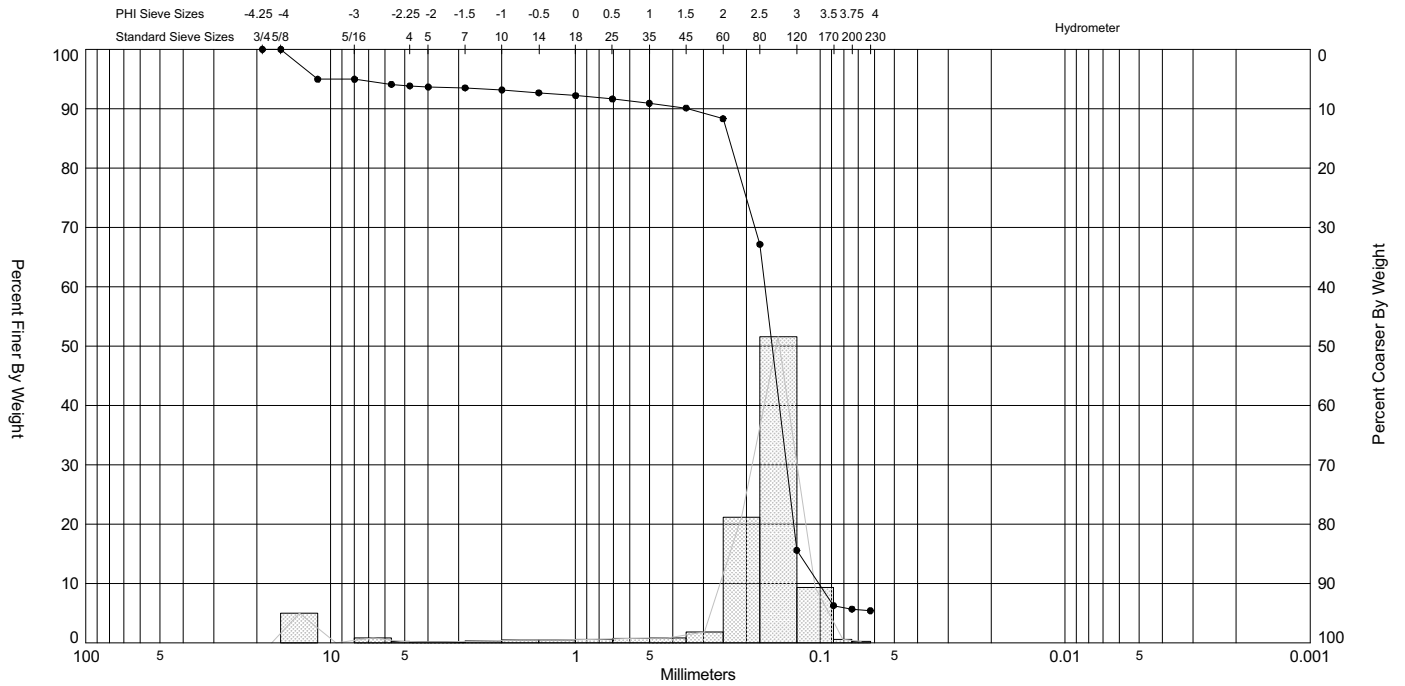



| | | | | | | | |
|--|--|--|--|---|---------------------|---|---|
| Granularmetric Report Depths and elevations based on measured values | | | |  Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116 | | | |
| Project Name: Anna Maria Island | | | | | | | |
| Sample Name: AMVC-05-11 #5 | | | | | | | |
| Analysis Date: 03-07-05 | | | | | | | |
| Analyzed By: CPE | | | | | | | |
| Easting (ft): <div style="text-align: center;">413,677</div> | | Northing (ft): <div style="text-align: center;">1,156,316</div> | | Coordinate System: <div style="text-align: center;">Florida State Plane West</div> | | Elevation (ft): <div style="text-align: center;">-27.9 NAVD 88</div> | |
| USCS: <div style="text-align: center;">SP-SM</div> | | Munsell: Wet - 5Y-8/1 Dry - 5Y-8/1 Washed - 5Y-8/1 | | Comments: | | | |
| Dry Weight (g): <div style="text-align: center;">71.02</div> | Wash Weight (g): <div style="text-align: center;">67.60</div> | Pan Retained (g): <div style="text-align: center;">0.11</div> | Sieve Loss (%): <div style="text-align: center;">0.44</div> | Fines (%): #200 - 5.69 #230 - 5.41 | Organics (%): | Carbonates (%): | Shell Hash (%): <div style="text-align: center;">2</div> |
| 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 | 3.57 | 5.03 | 3.57 | 5.03 | |
| 5/16" | -3.00 | 8.00 | 0.00 | 0.00 | 3.57 | 5.03 | |
| 3.5 | -2.50 | 5.66 | 0.61 | 0.86 | 4.18 | 5.89 | |
| 4 | -2.25 | 4.76 | 0.19 | 0.27 | 4.37 | 6.15 | |
| 5 | -2.00 | 4.00 | 0.13 | 0.18 | 4.50 | 6.34 | |
| 7 | -1.50 | 2.83 | 0.10 | 0.14 | 4.60 | 6.48 | |
| 10 | -1.00 | 2.00 | 0.26 | 0.37 | 4.86 | 6.84 | |
| 14 | -0.50 | 1.41 | 0.33 | 0.46 | 5.19 | 7.31 | |
| 18 | 0.00 | 1.00 | 0.34 | 0.48 | 5.53 | 7.79 | |
| 25 | 0.50 | 0.71 | 0.41 | 0.58 | 5.94 | 8.36 | |
| 35 | 1.00 | 0.50 | 0.51 | 0.72 | 6.45 | 9.08 | |
| 45 | 1.50 | 0.35 | 0.57 | 0.80 | 7.02 | 9.88 | |
| 60 | 2.00 | 0.25 | 1.29 | 1.82 | 8.31 | 11.70 | |
| 80 | 2.50 | 0.18 | 15.02 | 21.15 | 23.33 | 32.85 | |
| 120 | 3.00 | 0.13 | 36.61 | 51.55 | 59.94 | 84.40 | |
| 170 | 3.50 | 0.09 | 6.62 | 9.32 | 66.56 | 93.72 | |
| 200 | 3.75 | 0.07 | 0.42 | 0.59 | 66.98 | 94.31 | |
| 230 | 4.00 | 0.06 | 0.20 | 0.28 | 67.18 | 94.59 | |
| Shell Hash calculated from visual estimate of shell <4.75mm and >2.8mm. | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| | 3.00 | 2.91 | 2.67 | 2.31 | 2.10 | -3.01 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 2.16 | 0.22 | 1.64 | -2.88 | 10.22 | | |

SIEVE ANALYSIS ANNA MARIA_05 NAVD88.GPJ FL DEPROSS.GDT 10/30/08



| Gravel | | Sand | | | Silt and Clay | |
|--------|------|--------|--------|------|---------------|--|
| Coarse | Fine | Coarse | Medium | Fine | | |

| Sample | Symbol | Elev. (ft) | USCS | % Fines | % Organics | % Carbonates | Median | Mean | Skew | Kurt | Sort | Sample Information | |
|---|--------|------------|-------|----------------------------|------------|---|--------|------|-------|-------|------|--------------------|-------------------|
| AMVC-05-11 #5 | —●— | -27.9 | SP-SM | #200 - 5.69 #230 - 5.41 | | | 2.67 | 2.16 | -2.88 | 10.22 | 1.64 | Project Name: | Anna Maria Island |
| Comments: | | | | | | | | | | | | Analysis Date: | 03-07-05 |
| Depths and elevations based on measured values | | | | | | | | | | | | Analyzed By: | CPE |
|  | | | | | | Coastal Planning & Engineering | | | | | | Easting (X, ft): | 413,677 |
| | | | | | | 2481 NW Boca Raton Blvd, Boca Raton | | | | | | Northing (Y, ft): | 1,156,316 |
| | | | | | | FL 33431 | | | | | | Horizontal System: | NAD 1983 |
| | | | | | | ph (561) 391-8102 fax (561) 391-9116 | | | | | | Vertical System: | NAVD 88 |