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|--|------------------|--------------------------|-----------------|--|---------------------|----------------------|-------------|
| Granularmetric Report Depths and elevations based on measured values | | | | Scientific Environmental Applications 5575 Willoughby Drive Melbourne, FL 32934 ph 321 254-2708 fax 321 254-2708 | | | |
| Project Name: Singer Island 2005 | | | | | | | |
| Sample Name: SI-05-69 #1.0 | | | | | | | |
| Analysis Date: 08-23-05 | | | | | | | |
| Analyzed By: SEA Inc. | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 975,757 | | 902,405 | | Florida State Plane East | | -72.3 NAVD 88 | |
| USCS: | | Munsell: | | Comments: | | | |
| SP | | | | | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): | Organics (%): | Carbonates (%): | Shells (%): |
| 37.00 | 36.48 | 0.06 | 0.18 | #200 - 2.34 #230 - 1.70 | | 48.21 | |
| Sieve Number | Sieve Size (Phi) | Sieve Size (Millimeters) | Grams Retained | % Weight Retained | Cum. Grams Retained | C. % Weight Retained | |
| 5 | -2.00 | 4.00 | 0.02 | 0.05 | 0.02 | 0.05 | |
| 7 | -1.50 | 2.83 | 0.08 | 0.22 | 0.10 | 0.27 | |
| 10 | -1.00 | 2.00 | 0.36 | 0.97 | 0.46 | 1.24 | |
| 14 | -0.50 | 1.41 | 0.59 | 1.58 | 1.04 | 2.82 | |
| 18 | 0.00 | 1.00 | 0.92 | 2.48 | 1.96 | 5.30 | |
| 25 | 0.50 | 0.71 | 1.54 | 4.17 | 3.50 | 9.47 | |
| 35 | 1.00 | 0.50 | 2.30 | 6.21 | 5.80 | 15.68 | |
| 45 | 1.50 | 0.35 | 3.41 | 9.22 | 9.21 | 24.90 | |
| 60 | 2.00 | 0.25 | 4.79 | 12.96 | 14.00 | 37.86 | |
| 80 | 2.50 | 0.18 | 3.86 | 10.44 | 17.86 | 48.30 | |
| 120 | 3.00 | 0.13 | 3.76 | 10.17 | 21.63 | 58.47 | |
| 170 | 3.50 | 0.09 | 12.46 | 33.69 | 34.09 | 92.16 | |
| 200 | 3.75 | 0.07 | 2.03 | 5.50 | 36.12 | 97.66 | |
| 230 | 4.00 | 0.06 | 0.24 | 0.64 | 36.36 | 98.30 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 3.63 | 3.38 | 3.25 | 2.58 | 1.50 | 1.02 | -0.06 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 2.24 | 0.21 | 1.18 | -0.9 | 3.08 | | |

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|--|------------------|--------------------------|-----------------|--|---------------------|----------------------|-------------|
| Granularmetric Report Depths and elevations based on measured values | | | | Scientific Environmental Applications 5575 Willoughby Drive Melbourne, FL 32934 ph 321 254-2708 fax 321 254-2708 | | | |
| Project Name: Singer Island 2005 | | | | | | | |
| Sample Name: SI-05-69 #4.0 | | | | | | | |
| Analysis Date: 08-23-05 | | | | | | | |
| Analyzed By: SEA Inc. | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 975,757 | | 902,405 | | Florida State Plane East | | -75.3 NAVD 88 | |
| USCS: | | Munsell: | | Comments: | | | |
| SP | | | | | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): | Organics (%): | Carbonates (%): | Shells (%): |
| 38.24 | 37.78 | 0.00 | 0.12 | #200 - 1.48 #230 - 1.33 | | 80.31 | |
| Sieve Number | Sieve Size (Phi) | Sieve Size (Millimeters) | Grams Retained | % Weight Retained | Cum. Grams Retained | C. % Weight Retained | |
| 3.5 | -2.50 | 5.66 | 0.12 | 0.31 | 0.12 | 0.31 | |
| 5 | -2.00 | 4.00 | 0.12 | 0.32 | 0.24 | 0.63 | |
| 7 | -1.50 | 2.83 | 0.38 | 1.00 | 0.63 | 1.63 | |
| 10 | -1.00 | 2.00 | 0.43 | 1.12 | 1.05 | 2.75 | |
| 14 | -0.50 | 1.41 | 0.96 | 2.52 | 2.02 | 5.27 | |
| 18 | 0.00 | 1.00 | 1.96 | 5.11 | 3.97 | 10.38 | |
| 25 | 0.50 | 0.71 | 3.91 | 10.21 | 7.88 | 20.59 | |
| 35 | 1.00 | 0.50 | 5.27 | 13.78 | 13.15 | 34.37 | |
| 45 | 1.50 | 0.35 | 6.64 | 17.36 | 19.79 | 51.73 | |
| 60 | 2.00 | 0.25 | 8.13 | 21.26 | 27.92 | 72.99 | |
| 80 | 2.50 | 0.18 | 6.94 | 18.15 | 34.86 | 91.14 | |
| 120 | 3.00 | 0.13 | 2.18 | 5.69 | 37.03 | 96.83 | |
| 170 | 3.50 | 0.09 | 0.50 | 1.30 | 37.53 | 98.13 | |
| 200 | 3.75 | 0.07 | 0.15 | 0.39 | 37.68 | 98.52 | |
| 230 | 4.00 | 0.06 | 0.06 | 0.15 | 37.74 | 98.67 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 2.84 | 2.30 | 2.06 | 1.45 | 0.66 | 0.28 | -0.55 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 1.28 | 0.41 | 1.01 | -0.59 | 3.44 | | |

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|--|------------------|--------------------------|-----------------|--|---------------------|----------------------|-------------|
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| Project Name: Singer Island 2005 | | | | | | | |
| Sample Name: SI-05-69 #8.0 | | | | | | | |
| Analysis Date: 08-23-05 | | | | | | | |
| Analyzed By: SEA Inc. | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 975,757 | | 902,405 | | Florida State Plane East | | -79.3 NAVD 88 | |
| USCS: | | Munsell: | | Comments: | | | |
| SP | | | | | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): | Organics (%): | Carbonates (%): | Shells (%): |
| 49.38 | 48.37 | 0.00 | 0.23 | #200 - 2.41 #230 - 2.30 | | 83.59 | |
| Sieve Number | Sieve Size (Phi) | Sieve Size (Millimeters) | Grams Retained | % Weight Retained | Cum. Grams Retained | C. % Weight Retained | |
| 5 | -2.00 | 4.00 | 0.87 | 1.76 | 0.87 | 1.76 | |
| 7 | -1.50 | 2.83 | 0.66 | 1.33 | 1.53 | 3.09 | |
| 10 | -1.00 | 2.00 | 1.07 | 2.16 | 2.60 | 5.25 | |
| 14 | -0.50 | 1.41 | 2.03 | 4.12 | 4.63 | 9.37 | |
| 18 | 0.00 | 1.00 | 3.68 | 7.45 | 8.31 | 16.82 | |
| 25 | 0.50 | 0.71 | 6.48 | 13.13 | 14.79 | 29.95 | |
| 35 | 1.00 | 0.50 | 8.65 | 17.51 | 23.44 | 47.46 | |
| 45 | 1.50 | 0.35 | 7.89 | 15.97 | 31.33 | 63.43 | |
| 60 | 2.00 | 0.25 | 6.15 | 12.46 | 37.48 | 75.89 | |
| 80 | 2.50 | 0.18 | 4.63 | 9.37 | 42.10 | 85.26 | |
| 120 | 3.00 | 0.13 | 4.33 | 8.77 | 46.44 | 94.03 | |
| 170 | 3.50 | 0.09 | 1.57 | 3.18 | 48.00 | 97.21 | |
| 200 | 3.75 | 0.07 | 0.19 | 0.38 | 48.19 | 97.59 | |
| 230 | 4.00 | 0.06 | 0.06 | 0.11 | 48.25 | 97.70 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 3.15 | 2.43 | 1.96 | 1.08 | 0.31 | -0.06 | -1.06 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 1.04 | 0.49 | 1.12 | 0.05 | 2.66 | | |

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|--|------------------|--------------------------|-----------------|--|---------------------|----------------------|-------------|
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| Project Name: Singer Island 2005 | | | | | | | |
| Sample Name: SI-05-69 #Comp | | | | | | | |
| Analysis Date: 08-23-05 | | | | | | | |
| Analyzed By: SEA Inc. | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 975,757 | | 902,405 | | Florida State Plane East | | -80.3 NAVD 88 | |
| USCS: | | Munsell: | | Comments: | | | |
| SP | | | | | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): | Organics (%): | Carbonates (%): | Shells (%): |
| 38.44 | 37.65 | 0.00 | 0.07 | #200 - 2.50 #230 - 2.13 | | 74.87 | |
| Sieve Number | Sieve Size (Phi) | Sieve Size (Millimeters) | Grams Retained | % Weight Retained | Cum. Grams Retained | C. % Weight Retained | |
| 7 | -1.50 | 2.83 | 0.24 | 0.62 | 0.24 | 0.62 | |
| 10 | -1.00 | 2.00 | 0.39 | 1.01 | 0.63 | 1.63 | |
| 14 | -0.50 | 1.41 | 1.13 | 2.93 | 1.75 | 4.56 | |
| 18 | 0.00 | 1.00 | 1.69 | 4.40 | 3.44 | 8.96 | |
| 25 | 0.50 | 0.71 | 3.00 | 7.80 | 6.44 | 16.76 | |
| 35 | 1.00 | 0.50 | 4.32 | 11.25 | 10.77 | 28.01 | |
| 45 | 1.50 | 0.35 | 5.75 | 14.95 | 16.51 | 42.96 | |
| 60 | 2.00 | 0.25 | 7.16 | 18.61 | 23.67 | 61.57 | |
| 80 | 2.50 | 0.18 | 6.02 | 15.66 | 29.69 | 77.23 | |
| 120 | 3.00 | 0.13 | 3.65 | 9.49 | 33.34 | 86.72 | |
| 170 | 3.50 | 0.09 | 3.48 | 9.06 | 36.82 | 95.78 | |
| 200 | 3.75 | 0.07 | 0.66 | 1.72 | 37.48 | 97.50 | |
| 230 | 4.00 | 0.06 | 0.14 | 0.37 | 37.63 | 97.87 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 3.46 | 2.86 | 2.43 | 1.69 | 0.87 | 0.45 | -0.45 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 1.58 | 0.33 | 1.09 | -0.24 | 2.59 | | |

GRANULARMETRIC REPORT SINGER ISLAND.GPJ FL DEP ROSS.GDT 4/25/08