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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-05-66 #1.0 | | | | | | | |
| Analysis Date: 08-18-05 | | | | | | | |
| Analyzed By: SEA Inc. | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 975,967 | | 904,785 | | Florida State Plane East | | -76.7 NAVD 88 | |
| USCS: | | Munsell: | | Comments: | | | |
| SW | | | | | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): | Organics (%): | Carbonates (%): | Shells (%): |
| 30.68 | 30.20 | 0.02 | 1.93 | #200 - 3.83 #230 - 3.61 | | 83.66 | |
| Sieve Number | Sieve Size (Phi) | Sieve Size (Millimeters) | Grams Retained | % Weight Retained | Cum. Grams Retained | C. % Weight Retained | |
| 3.5 | -2.50 | 5.66 | 0.38 | 1.22 | 0.38 | 1.22 | |
| 5 | -2.00 | 4.00 | 1.02 | 3.32 | 1.39 | 4.54 | |
| 7 | -1.50 | 2.83 | 2.23 | 7.28 | 3.63 | 11.82 | |
| 10 | -1.00 | 2.00 | 2.09 | 6.82 | 5.72 | 18.64 | |
| 14 | -0.50 | 1.41 | 2.69 | 8.77 | 8.41 | 27.41 | |
| 18 | 0.00 | 1.00 | 2.74 | 8.93 | 11.15 | 36.34 | |
| 25 | 0.50 | 0.71 | 2.85 | 9.30 | 14.01 | 45.64 | |
| 35 | 1.00 | 0.50 | 2.72 | 8.86 | 16.73 | 54.50 | |
| 45 | 1.50 | 0.35 | 3.07 | 10.01 | 19.80 | 64.51 | |
| 60 | 2.00 | 0.25 | 3.52 | 11.47 | 23.32 | 75.98 | |
| 80 | 2.50 | 0.18 | 3.35 | 10.90 | 26.66 | 86.88 | |
| 120 | 3.00 | 0.13 | 1.77 | 5.77 | 28.43 | 92.65 | |
| 170 | 3.50 | 0.09 | 0.88 | 2.87 | 29.32 | 95.52 | |
| 200 | 3.75 | 0.07 | 0.20 | 0.65 | 29.51 | 96.17 | |
| 230 | 4.00 | 0.06 | 0.07 | 0.22 | 29.58 | 96.39 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 3.41 | 2.37 | 1.96 | 0.75 | -0.64 | -1.19 | -1.97 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 0.56 | 0.68 | 1.51 | -0.02 | 2.01 | | |

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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-05-66 #3.0 | | | | | | | |
| Analysis Date: 08-18-05 | | | | | | | |
| Analyzed By: SEA Inc. | | | | | | | |
| Easting (ft): <div style="text-align: center;">975,967</div> | | Northing (ft): <div style="text-align: center;">904,785</div> | | Coordinate System: <div style="text-align: center;">Florida State Plane East</div> | | Elevation (ft): <div style="text-align: center;">-78.7 NAVD 88</div> | |
| USCS: <div style="text-align: center;">SP</div> | | Munsell: | | Comments: | | | |
| Dry Weight (g): <div style="text-align: center;">45.61</div> | Wash Weight (g): <div style="text-align: center;">45.00</div> | Pan Retained (g): <div style="text-align: center;">0.00</div> | Sieve Loss (%): <div style="text-align: center;">0.14</div> | Fines (%): #200 - 1.56 #230 - 1.49 | Organics (%): | Carbonates (%): <div style="text-align: center;">83.75</div> | Shells (%): |
| Sieve Number | Sieve Size (Phi) | Sieve Size (Millimeters) | Grams Retained | % Weight Retained | Cum. Grams Retained | C. % Weight Retained | |
| 3.5 | -2.50 | 5.66 | 0.40 | 0.87 | 0.40 | 0.87 | |
| 5 | -2.00 | 4.00 | 0.44 | 0.97 | 0.84 | 1.84 | |
| 7 | -1.50 | 2.83 | 0.44 | 0.96 | 1.28 | 2.80 | |
| 10 | -1.00 | 2.00 | 0.76 | 1.66 | 2.03 | 4.46 | |
| 14 | -0.50 | 1.41 | 1.61 | 3.52 | 3.64 | 7.98 | |
| 18 | 0.00 | 1.00 | 2.27 | 4.97 | 5.91 | 12.95 | |
| 25 | 0.50 | 0.71 | 3.37 | 7.38 | 9.27 | 20.33 | |
| 35 | 1.00 | 0.50 | 4.87 | 10.68 | 14.14 | 31.01 | |
| 45 | 1.50 | 0.35 | 7.14 | 15.65 | 21.28 | 46.66 | |
| 60 | 2.00 | 0.25 | 8.99 | 19.71 | 30.27 | 66.37 | |
| 80 | 2.50 | 0.18 | 7.70 | 16.88 | 37.97 | 83.25 | |
| 120 | 3.00 | 0.13 | 5.54 | 12.14 | 43.51 | 95.39 | |
| 170 | 3.50 | 0.09 | 1.31 | 2.87 | 44.82 | 98.26 | |
| 200 | 3.75 | 0.07 | 0.08 | 0.18 | 44.90 | 98.44 | |
| 230 | 4.00 | 0.06 | 0.03 | 0.07 | 44.93 | 98.51 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 2.98 | 2.53 | 2.26 | 1.58 | 0.72 | 0.21 | -0.92 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 1.35 | 0.39 | 1.13 | -0.69 | 3.35 | | |

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|--|------------------|--------------------------|-----------------|--|---------------------|----------------------|-------------|
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| Project Name: Singer Island 2005 | | | | | | | |
| Sample Name: SI-05-66 #6.0 | | | | | | | |
| Analysis Date: 08-18-05 | | | | | | | |
| Analyzed By: SEA Inc. | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 975,967 | | 904,785 | | Florida State Plane East | | -81.7 NAVD 88 | |
| USCS: | | Munsell: | | Comments: | | | |
| SP | | | | | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): | Organics (%): | Carbonates (%): | Shells (%): |
| 39.97 | 39.68 | 0.01 | 0.00 | #200 - 0.71 | | 83.36 | |
| Sieve Number | Sieve Size (Phi) | Sieve Size (Millimeters) | Grams Retained | % Weight Retained | Cum. Grams Retained | C. % Weight Retained | |
| 7 | -1.50 | 2.83 | 0.05 | 0.11 | 0.05 | 0.11 | |
| 10 | -1.00 | 2.00 | 0.05 | 0.12 | 0.09 | 0.23 | |
| 14 | -0.50 | 1.41 | 0.18 | 0.45 | 0.27 | 0.68 | |
| 18 | 0.00 | 1.00 | 0.32 | 0.80 | 0.59 | 1.48 | |
| 25 | 0.50 | 0.71 | 0.80 | 2.01 | 1.39 | 3.49 | |
| 35 | 1.00 | 0.50 | 2.27 | 5.68 | 3.66 | 9.17 | |
| 45 | 1.50 | 0.35 | 7.27 | 18.19 | 10.93 | 27.36 | |
| 60 | 2.00 | 0.25 | 12.50 | 31.28 | 23.44 | 58.64 | |
| 80 | 2.50 | 0.18 | 7.74 | 19.37 | 31.18 | 78.01 | |
| 120 | 3.00 | 0.13 | 6.49 | 16.24 | 37.67 | 94.25 | |
| 170 | 3.50 | 0.09 | 1.98 | 4.96 | 39.65 | 99.21 | |
| 200 | 3.75 | 0.07 | 0.03 | 0.08 | 39.68 | 99.29 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 3.08 | 2.68 | 2.42 | 1.86 | 1.44 | 1.19 | 0.63 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 1.87 | 0.27 | 0.73 | -0.4 | 3.69 | | |

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

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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-05-66 #Comp | | | | | | | |
| Analysis Date: 08-18-05 | | | | | | | |
| Analyzed By: SEA Inc. | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 975,967 | | 904,785 | | Florida State Plane East | | -85.7 NAVD 88 | |
| USCS: | | Munsell: | | Comments: | | | |
| SP | | | | | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): | Organics (%): | Carbonates (%): | Shells (%): |
| 36.49 | 35.80 | 0.01 | -0.10 | #200 - 2.36 #230 - 1.79 | | 82.48 | |
| Sieve Number | Sieve Size (Phi) | Sieve Size (Millimeters) | Grams Retained | % Weight Retained | Cum. Grams Retained | C. % Weight Retained | |
| 5 | -2.00 | 4.00 | 0.32 | 0.89 | 0.32 | 0.89 | |
| 7 | -1.50 | 2.83 | 0.96 | 2.63 | 1.28 | 3.52 | |
| 10 | -1.00 | 2.00 | 0.88 | 2.40 | 2.16 | 5.92 | |
| 14 | -0.50 | 1.41 | 1.69 | 4.64 | 3.85 | 10.56 | |
| 18 | 0.00 | 1.00 | 1.93 | 5.30 | 5.78 | 15.86 | |
| 25 | 0.50 | 0.71 | 2.37 | 6.49 | 8.15 | 22.35 | |
| 35 | 1.00 | 0.50 | 3.02 | 8.27 | 11.17 | 30.62 | |
| 45 | 1.50 | 0.35 | 4.36 | 11.96 | 15.53 | 42.58 | |
| 60 | 2.00 | 0.25 | 6.13 | 16.79 | 21.66 | 59.37 | |
| 80 | 2.50 | 0.18 | 5.82 | 15.94 | 27.47 | 75.31 | |
| 120 | 3.00 | 0.13 | 5.54 | 15.19 | 33.01 | 90.50 | |
| 170 | 3.50 | 0.09 | 2.21 | 6.06 | 35.23 | 96.56 | |
| 200 | 3.75 | 0.07 | 0.40 | 1.08 | 35.62 | 97.64 | |
| 230 | 4.00 | 0.06 | 0.21 | 0.57 | 35.83 | 98.21 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 3.37 | 2.79 | 2.49 | 1.72 | 0.66 | 0.01 | -1.19 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 1.44 | 0.37 | 1.28 | -0.58 | 2.72 | | |