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|--|------------------|--------------------------|-----------------|---|---------------------|----------------------|-------------|
| Granularmetric Report Depths and elevations based on measured values | | | | Scientific Environmental Applications 5575 Willoughby Drive Melbourne, FL 32934 seappinc.com seapp1@aol.com (321) 254-2708 | | | |
| Project Name: Juno 2016 | | | | | | | |
| Sample Name: Juno16-07 #0.5 | | | | | | | |
| Analysis Date: 05-10-16 | | | | | | | |
| Analyzed By: | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 967,013 | | 958,486 | | Florida State Plane East | | -65.9 NAVD 88 | |
| USCS: | | Munsell: | | Comments: | | | |
| SW | | Dry - 10YR-6.5/1 | | | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): | Organics (%): | Carbonates (%): | Shells (%): |
| 86.82 | 86.25 | 0.03 | -0.22 | #200 - 0.55 #230 - 0.48 | | 78.07 | |
| 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 | 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 | 0.17 | 0.19 | 0.17 | 0.19 | |
| 4 | -2.25 | 4.76 | 0.46 | 0.53 | 0.62 | 0.72 | |
| 5 | -2.00 | 4.00 | 0.30 | 0.34 | 0.92 | 1.06 | |
| 7 | -1.50 | 2.83 | 0.94 | 1.08 | 1.86 | 2.14 | |
| 10 | -1.00 | 2.00 | 1.28 | 1.47 | 3.14 | 3.61 | |
| 14 | -0.50 | 1.41 | 3.08 | 3.55 | 6.22 | 7.16 | |
| 18 | 0.00 | 1.00 | 5.90 | 6.80 | 12.12 | 13.96 | |
| 25 | 0.50 | 0.71 | 7.15 | 8.23 | 19.27 | 22.19 | |
| 35 | 1.00 | 0.50 | 10.52 | 12.11 | 29.78 | 34.30 | |
| 45 | 1.50 | 0.35 | 14.04 | 16.17 | 43.83 | 50.47 | |
| 60 | 2.00 | 0.25 | 21.44 | 24.70 | 65.27 | 75.17 | |
| 80 | 2.50 | 0.18 | 16.84 | 19.39 | 82.11 | 94.56 | |
| 120 | 3.00 | 0.13 | 2.26 | 2.60 | 84.37 | 97.16 | |
| 170 | 3.50 | 0.09 | 1.87 | 2.15 | 86.24 | 99.31 | |
| 200 | 3.75 | 0.07 | 0.12 | 0.14 | 86.36 | 99.45 | |
| 230 | 4.00 | 0.06 | 0.06 | 0.07 | 86.42 | 99.52 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 2.58 | 2.23 | 2.00 | 1.49 | 0.62 | 0.12 | -0.80 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 1.23 | 0.43 | 1.07 | -0.86 | 3.76 | | |

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|--|--|---|--|---|---------------------|---|-------------|
| Granularmetric Report Depths and elevations based on measured values | | | | Scientific Environmental Applications 5575 Willoughby Drive Melbourne, FL 32934 seappinc.com seapp1@aol.com (321) 254-2708 | | | |
| Project Name: Juno 2016 | | | | | | | |
| Sample Name: Juno16-07 #3 | | | | | | | |
| Analysis Date: 05-10-16 | | | | | | | |
| Analyzed By: | | | | | | | |
| Easting (ft): <div style="text-align: center;">967,013</div> | | Northing (ft): <div style="text-align: center;">958,486</div> | | Coordinate System: <div style="text-align: center;">Florida State Plane East</div> | | Elevation (ft): <div style="text-align: center;">-68.4 NAVD 88</div> | |
| USCS: <div style="text-align: center;">SW</div> | | Munsell: <div style="text-align: center;">Dry - 10YR-6/0.5</div> | | Comments: | | | |
| Dry Weight (g): <div style="text-align: center;">86.46</div> | Wash Weight (g): <div style="text-align: center;">85.65</div> | Pan Retained (g): <div style="text-align: center;">0.06</div> | Sieve Loss (%): <div style="text-align: center;">0.04</div> | Fines (%): #200 - 1.19 #230 - 1.05 | Organics (%): | Carbonates (%): <div style="text-align: center;">86.39</div> | Shells (%): |
| 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 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5/16" | -3.00 | 8.00 | 0.84 | 0.97 | 0.84 | 0.97 | |
| 3.5 | -2.50 | 5.66 | 1.05 | 1.22 | 1.89 | 2.19 | |
| 4 | -2.25 | 4.76 | 0.08 | 0.09 | 1.97 | 2.28 | |
| 5 | -2.00 | 4.00 | 0.70 | 0.81 | 2.66 | 3.09 | |
| 7 | -1.50 | 2.83 | 1.70 | 1.96 | 4.36 | 5.05 | |
| 10 | -1.00 | 2.00 | 5.19 | 6.01 | 9.56 | 11.06 | |
| 14 | -0.50 | 1.41 | 10.75 | 12.43 | 20.31 | 23.49 | |
| 18 | 0.00 | 1.00 | 14.81 | 17.13 | 35.12 | 40.62 | |
| 25 | 0.50 | 0.71 | 12.87 | 14.88 | 47.99 | 55.50 | |
| 35 | 1.00 | 0.50 | 10.21 | 11.81 | 58.19 | 67.31 | |
| 45 | 1.50 | 0.35 | 8.97 | 10.37 | 67.16 | 77.68 | |
| 60 | 2.00 | 0.25 | 9.50 | 10.98 | 76.66 | 88.66 | |
| 80 | 2.50 | 0.18 | 6.46 | 7.47 | 83.12 | 96.13 | |
| 120 | 3.00 | 0.13 | 1.40 | 1.62 | 84.52 | 97.75 | |
| 170 | 3.50 | 0.09 | 0.60 | 0.69 | 85.11 | 98.44 | |
| 200 | 3.75 | 0.07 | 0.32 | 0.37 | 85.43 | 98.81 | |
| 230 | 4.00 | 0.06 | 0.12 | 0.14 | 85.56 | 98.95 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 2.42 | 1.79 | 1.37 | 0.32 | -0.46 | -0.80 | -1.51 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 0.38 | 0.77 | 1.25 | -0.12 | 2.99 | | |

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|--|------------------|--------------------------|-----------------|---|---------------------|----------------------|-------------|
| Granularmetric Report Depths and elevations based on measured values | | | | Scientific Environmental Applications 5575 Willoughby Drive Melbourne, FL 32934 seappinc.com seapp1@aol.com (321) 254-2708 | | | |
| Project Name: Juno 2016 | | | | | | | |
| Sample Name: Juno16-07 #6 | | | | | | | |
| Analysis Date: 05-10-16 | | | | | | | |
| Analyzed By: | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 967,013 | | 958,486 | | Florida State Plane East | | -71.4 NAVD 88 | |
| USCS: | | Munsell: | | Comments: | | | |
| SW | | Dry - 10YR-6/0.5 | | | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): | Organics (%): | Carbonates (%): | Shells (%): |
| 86.33 | 84.73 | 0.11 | 0.22 | #200 - 2.46 #230 - 2.19 | | 86.07 | |
| 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 | 1.53 | 1.77 | 1.53 | 1.77 | |
| 5/16" | -3.00 | 8.00 | 4.04 | 4.68 | 5.57 | 6.45 | |
| 3.5 | -2.50 | 5.66 | 4.12 | 4.78 | 9.70 | 11.23 | |
| 4 | -2.25 | 4.76 | 0.68 | 0.79 | 10.38 | 12.02 | |
| 5 | -2.00 | 4.00 | 0.84 | 0.98 | 11.22 | 13.00 | |
| 7 | -1.50 | 2.83 | 2.06 | 2.39 | 13.28 | 15.39 | |
| 10 | -1.00 | 2.00 | 2.42 | 2.80 | 15.70 | 18.19 | |
| 14 | -0.50 | 1.41 | 5.16 | 5.98 | 20.86 | 24.17 | |
| 18 | 0.00 | 1.00 | 8.81 | 10.20 | 29.67 | 34.37 | |
| 25 | 0.50 | 0.71 | 8.49 | 9.83 | 38.16 | 44.20 | |
| 35 | 1.00 | 0.50 | 9.08 | 10.52 | 47.24 | 54.72 | |
| 45 | 1.50 | 0.35 | 9.64 | 11.17 | 56.88 | 65.89 | |
| 60 | 2.00 | 0.25 | 12.28 | 14.23 | 69.16 | 80.12 | |
| 80 | 2.50 | 0.18 | 9.73 | 11.27 | 78.89 | 91.39 | |
| 120 | 3.00 | 0.13 | 1.98 | 2.29 | 80.86 | 93.68 | |
| 170 | 3.50 | 0.09 | 2.99 | 3.47 | 83.86 | 97.15 | |
| 200 | 3.75 | 0.07 | 0.34 | 0.39 | 84.19 | 97.54 | |
| 230 | 4.00 | 0.06 | 0.24 | 0.27 | 84.43 | 97.81 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 3.19 | 2.17 | 1.82 | 0.78 | -0.46 | -1.39 | -3.15 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 0.42 | 0.75 | 1.77 | -0.65 | 2.71 | | |

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| Granularmetric Report Depths and elevations based on measured values | | | | Scientific Environmental Applications 5575 Willoughby Drive Melbourne, FL 32934 seappinc.com seapp1@aol.com (321) 254-2708 | | | |
| Project Name: Juno 2016 | | | | | | | |
| Sample Name: Juno16-07 #9 | | | | | | | |
| Analysis Date: 05-10-16 | | | | | | | |
| Analyzed By: | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 967,013 | | 958,486 | | Florida State Plane East | | -74.4 NAVD 88 | |
| USCS: | | Munsell: | | Comments: | | | |
| SP | | Dry - 10YR-6/0.5 | | | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): | Organics (%): | Carbonates (%): | Shells (%): |
| 87.02 | 85.97 | 0.06 | 0.43 | #200 - 1.83 #230 - 1.70 | | 69.78 | |
| 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 | 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 | 0.26 | 0.30 | 0.26 | 0.30 | |
| 4 | -2.25 | 4.76 | 0.00 | 0.00 | 0.26 | 0.30 | |
| 5 | -2.00 | 4.00 | 0.17 | 0.20 | 0.44 | 0.50 | |
| 7 | -1.50 | 2.83 | 0.14 | 0.16 | 0.58 | 0.66 | |
| 10 | -1.00 | 2.00 | 0.28 | 0.33 | 0.86 | 0.99 | |
| 14 | -0.50 | 1.41 | 0.69 | 0.80 | 1.55 | 1.79 | |
| 18 | 0.00 | 1.00 | 1.80 | 2.06 | 3.35 | 3.85 | |
| 25 | 0.50 | 0.71 | 3.80 | 4.37 | 7.15 | 8.22 | |
| 35 | 1.00 | 0.50 | 11.06 | 12.71 | 18.21 | 20.93 | |
| 45 | 1.50 | 0.35 | 25.98 | 29.86 | 44.20 | 50.79 | |
| 60 | 2.00 | 0.25 | 23.55 | 27.06 | 67.74 | 77.85 | |
| 80 | 2.50 | 0.18 | 10.90 | 12.52 | 78.64 | 90.37 | |
| 120 | 3.00 | 0.13 | 5.88 | 6.76 | 84.52 | 97.13 | |
| 170 | 3.50 | 0.09 | 0.73 | 0.84 | 85.25 | 97.97 | |
| 200 | 3.75 | 0.07 | 0.17 | 0.20 | 85.42 | 98.17 | |
| 230 | 4.00 | 0.06 | 0.12 | 0.13 | 85.54 | 98.30 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 2.84 | 2.25 | 1.95 | 1.49 | 1.07 | 0.81 | 0.13 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 1.45 | 0.37 | 0.79 | -0.9 | 6.51 | | |

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|--|------------------|--------------------------|-----------------|---|---------------------|----------------------|-------------|
| Granularmetric Report Depths and elevations based on measured values | | | | Scientific Environmental Applications 5575 Willoughby Drive Melbourne, FL 32934 seappinc.com seapp1@aol.com (321) 254-2708 | | | |
| Project Name: Juno 2016 | | | | | | | |
| Sample Name: Juno16-07 #11 | | | | | | | |
| Analysis Date: 05-10-16 | | | | | | | |
| Analyzed By: | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 967,013 | | 958,486 | | Florida State Plane East | | -76.4 NAVD 88 | |
| USCS: | | Munsell: | | Comments: | | | |
| SW | | Dry - 10YR-6/0.5 | | | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): | Organics (%): | Carbonates (%): | Shells (%): |
| 86.06 | 84.91 | 0.16 | 0.33 | #200 - 2.26 #230 - 1.85 | | 69.48 | |
| 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 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5/16" | -3.00 | 8.00 | 1.18 | 1.37 | 1.18 | 1.37 | |
| 3.5 | -2.50 | 5.66 | 0.00 | 0.00 | 1.18 | 1.37 | |
| 4 | -2.25 | 4.76 | 0.00 | 0.00 | 1.18 | 1.37 | |
| 5 | -2.00 | 4.00 | 0.00 | 0.00 | 1.18 | 1.37 | |
| 7 | -1.50 | 2.83 | 0.12 | 0.14 | 1.30 | 1.51 | |
| 10 | -1.00 | 2.00 | 0.24 | 0.27 | 1.53 | 1.78 | |
| 14 | -0.50 | 1.41 | 0.29 | 0.33 | 1.82 | 2.11 | |
| 18 | 0.00 | 1.00 | 0.64 | 0.75 | 2.46 | 2.86 | |
| 25 | 0.50 | 0.71 | 1.55 | 1.80 | 4.01 | 4.66 | |
| 35 | 1.00 | 0.50 | 8.18 | 9.51 | 12.19 | 14.17 | |
| 45 | 1.50 | 0.35 | 25.87 | 30.06 | 38.06 | 44.23 | |
| 60 | 2.00 | 0.25 | 24.17 | 28.08 | 62.23 | 72.31 | |
| 80 | 2.50 | 0.18 | 12.51 | 14.54 | 74.74 | 86.85 | |
| 120 | 3.00 | 0.13 | 6.04 | 7.02 | 80.79 | 93.87 | |
| 170 | 3.50 | 0.09 | 2.93 | 3.40 | 83.72 | 97.27 | |
| 200 | 3.75 | 0.07 | 0.40 | 0.47 | 84.12 | 97.74 | |
| 230 | 4.00 | 0.06 | 0.35 | 0.41 | 84.47 | 98.15 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 3.17 | 2.40 | 2.09 | 1.60 | 1.18 | 1.03 | 0.52 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 1.58 | 0.33 | 0.92 | -1.88 | 12.26 | | |

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|--|------------------|--------------------------|-----------------|---|---------------------|----------------------|-------------|
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| Project Name: Juno 2016 | | | | | | | |
| Sample Name: Juno16-07 #Comp | | | | | | | |
| Analysis Date: 05-10-16 | | | | | | | |
| Analyzed By: | | | | | | | |
| Easting (ft): | | Northing (ft): | | Coordinate System: | | Elevation (ft): | |
| 967,013 | | 958,486 | | Florida State Plane East | | -78.4 NAVD 88 | |
| USCS: | | Munsell: | | Comments: | | | |
| SW | | Dry - 10YR-6/0.5 | | | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): | Organics (%): | Carbonates (%): | Shells (%): |
| 86.50 | 85.74 | 0.07 | 0.29 | #200 - 1.41 #230 - 1.26 | | 78.21 | |
| 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 | 3.10 | 3.58 | 3.10 | 3.58 | |
| 5/16" | -3.00 | 8.00 | 0.20 | 0.23 | 3.29 | 3.81 | |
| 3.5 | -2.50 | 5.66 | 0.77 | 0.89 | 4.06 | 4.70 | |
| 4 | -2.25 | 4.76 | 0.58 | 0.66 | 4.63 | 5.36 | |
| 5 | -2.00 | 4.00 | 0.44 | 0.51 | 5.07 | 5.87 | |
| 7 | -1.50 | 2.83 | 1.58 | 1.83 | 6.66 | 7.70 | |
| 10 | -1.00 | 2.00 | 2.62 | 3.03 | 9.27 | 10.73 | |
| 14 | -0.50 | 1.41 | 5.87 | 6.78 | 15.14 | 17.51 | |
| 18 | 0.00 | 1.00 | 8.32 | 9.62 | 23.47 | 27.13 | |
| 25 | 0.50 | 0.71 | 8.71 | 10.07 | 32.18 | 37.20 | |
| 35 | 1.00 | 0.50 | 10.13 | 11.71 | 42.31 | 48.91 | |
| 45 | 1.50 | 0.35 | 14.71 | 17.00 | 57.02 | 65.91 | |
| 60 | 2.00 | 0.25 | 14.64 | 16.92 | 71.66 | 82.83 | |
| 80 | 2.50 | 0.18 | 9.11 | 10.53 | 80.77 | 93.36 | |
| 120 | 3.00 | 0.13 | 3.52 | 4.07 | 84.29 | 97.43 | |
| 170 | 3.50 | 0.09 | 0.75 | 0.87 | 85.04 | 98.30 | |
| 200 | 3.75 | 0.07 | 0.25 | 0.29 | 85.28 | 98.59 | |
| 230 | 4.00 | 0.06 | 0.13 | 0.15 | 85.41 | 98.74 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 2.70 | 2.06 | 1.77 | 1.03 | -0.11 | -0.61 | -2.39 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 0.69 | 0.62 | 1.49 | -1.06 | 4.2 | | |