





GRANULARMETRIC REPORT SARASOTA_ALL_VC_GINT_FDEP.GPJ FL DEP ROSS.GDT 8/2/13

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|--|------------------|----------------------------------|-----------------|---|---------------------|--|-----------------------------|
| Granularmetric Report Depths and elevations based on measured values | | | |  <p>US Army Corps of Engineers 701 San Marco Blvd. Jacksonville, Florida 32207 Phone (904) 396-7121</p> | | | |
| Project Name: Sarasota SPP | | | | | | | |
| Sample Name: VB-SCV09-42 #1.5 | | | | | | | |
| Analysis Date: 07-14-09 | | | | | | | |
| Analyzed By: | | | | | | | |
| Easting (ft): 490,396 | | Northing (ft): 938,140 | | Coordinate System: | | Elevation (ft): -44.6 NAVD88 | |
| USCS: SW | | Munsell: Wet - 5Y 4/1 | | Comments: | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): #230 - 1.43 | Organics (%): | Carbonates (%): 7.60 | Shells (%): 25.00 |
| 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 | |
| 3/8" | -3.25 | 9.48 | | 1.56 | | 1.56 | |
| #3.5 | -2.50 | 5.66 | | 1.46 | | 3.02 | |
| #4 | -2.25 | 4.75 | | 0.15 | | 3.17 | |
| #5 | -2.00 | 3.99 | | 0.64 | | 3.81 | |
| #7 | -1.50 | 2.82 | | 1.39 | | 5.20 | |
| #10 | -1.00 | 2.00 | | 2.00 | | 7.20 | |
| #14 | -0.50 | 1.41 | | 4.13 | | 11.33 | |
| #18 | 0.00 | 1.00 | | 6.90 | | 18.23 | |
| #25 | 0.50 | 0.71 | | 12.71 | | 30.94 | |
| #35 | 1.00 | 0.50 | | 21.54 | | 52.48 | |
| #45 | 1.50 | 0.35 | | 21.08 | | 73.56 | |
| #60 | 2.00 | 0.25 | | 15.84 | | 89.40 | |
| #80 | 2.50 | 0.18 | | 5.55 | | 94.95 | |
| #120 | 3.00 | 0.13 | | 2.87 | | 97.82 | |
| #170 | 3.50 | 0.09 | | 0.52 | | 98.34 | |
| #200 | 3.75 | 0.07 | | 0.16 | | 98.50 | |
| #230 | 4.00 | 0.06 | | 0.07 | | 98.57 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 2.51 | 1.83 | 1.54 | 0.94 | 0.27 | -0.16 | -1.57 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 0.76 | 0.59 | 1.21 | -1.27 | 5.73 | | |

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| Granularmetric Report Depths and elevations based on measured values | | | |  <p>US Army Corps of Engineers 701 San Marco Blvd. Jacksonville, Florida 32207 Phone (904) 396-7121</p> | | | |
| Project Name: Sarasota SPP | | | | | | | |
| Sample Name: VB-SCV09-42 #1.6 | | | | | | | |
| Analysis Date: 07-20-09 | | | | | | | |
| Analyzed By: | | | | | | | |
| Easting (ft): 490,396 | | Northing (ft): 938,140 | | Coordinate System: | | Elevation (ft): -44.7 NAVD88 | |
| USCS: SW | | Munsell: Wet - 5Y 4/1 | | Comments: | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): #230 - 0.14 | Organics (%): | Carbonates (%): | Shells (%): 25.00 |
| 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 | |
| 3/8" | -3.25 | 9.48 | | 2.85 | | 2.85 | |
| #3.5 | -2.50 | 5.66 | | 1.60 | | 4.45 | |
| #4 | -2.25 | 4.75 | | 0.12 | | 4.57 | |
| #5 | -2.00 | 3.99 | | 0.29 | | 4.86 | |
| #7 | -1.50 | 2.82 | | 1.27 | | 6.13 | |
| #10 | -1.00 | 2.00 | | 1.93 | | 8.06 | |
| #14 | -0.50 | 1.41 | | 3.94 | | 12.00 | |
| #18 | 0.00 | 1.00 | | 6.35 | | 18.35 | |
| #25 | 0.50 | 0.71 | | 12.52 | | 30.87 | |
| #35 | 1.00 | 0.50 | | 20.42 | | 51.29 | |
| #45 | 1.50 | 0.35 | | 22.07 | | 73.36 | |
| #60 | 2.00 | 0.25 | | 18.35 | | 91.71 | |
| #80 | 2.50 | 0.18 | | 4.88 | | 96.59 | |
| #120 | 3.00 | 0.13 | | 2.51 | | 99.10 | |
| #170 | 3.50 | 0.09 | | 0.57 | | 99.67 | |
| #200 | 3.75 | 0.07 | | 0.12 | | 99.79 | |
| #230 | 4.00 | 0.06 | | 0.07 | | 99.86 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 2.34 | 1.79 | 1.54 | 0.97 | 0.27 | -0.19 | -1.94 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 0.73 | 0.60 | 1.29 | -1.5 | 6.08 | | |

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|--|------------------|--|-----------------|---|---------------------|--|----------------------|
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| Project Name: Sarasota SPP | | | | | | | |
| Sample Name: VB-SCV09-42 #4 | | | | | | | |
| Analysis Date: 07-16-09 | | | | | | | |
| Analyzed By: | | | | | | | |
| Easting (ft): <div style="text-align: center;">490,396</div> | | Northing (ft): <div style="text-align: center;">938,140</div> | | Coordinate System: | | Elevation (ft): <div style="text-align: center;">-47.1 NAVD88</div> | |
| USCS: <div style="text-align: center;">SP</div> | | Munsell: <div style="text-align: center;">Wet - 5Y 6/2</div> | | Comments: | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): #230 - 2.73 | Organics (%): | Carbonates (%): | Shells (%): 10.00 |
| Sieve Number | Sieve Size (Phi) | Sieve Size (Millimeters) | Grams Retained | % Weight Retained | Cum. Grams Retained | C. % Weight Retained | |
| 3/8" | -3.25 | 9.48 | | 0.00 | | 0.00 | |
| #3.5 | -2.50 | 5.66 | | 0.10 | | 0.10 | |
| #4 | -2.25 | 4.75 | | 0.04 | | 0.14 | |
| #5 | -2.00 | 3.99 | | 0.02 | | 0.16 | |
| #7 | -1.50 | 2.82 | | 0.20 | | 0.36 | |
| #10 | -1.00 | 2.00 | | 0.32 | | 0.68 | |
| #14 | -0.50 | 1.41 | | 0.78 | | 1.46 | |
| #18 | 0.00 | 1.00 | | 0.81 | | 2.27 | |
| #25 | 0.50 | 0.71 | | 2.27 | | 4.54 | |
| #35 | 1.00 | 0.50 | | 3.39 | | 7.93 | |
| #45 | 1.50 | 0.35 | | 4.30 | | 12.23 | |
| #60 | 2.00 | 0.25 | | 42.14 | | 54.37 | |
| #80 | 2.50 | 0.18 | | 34.64 | | 89.01 | |
| #120 | 3.00 | 0.13 | | 6.42 | | 95.43 | |
| #170 | 3.50 | 0.09 | | 1.23 | | 96.66 | |
| #200 | 3.75 | 0.07 | | 0.37 | | 97.03 | |
| #230 | 4.00 | 0.06 | | 0.24 | | 97.27 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 2.97 | 2.43 | 2.30 | 1.94 | 1.65 | 1.54 | 0.57 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 1.87 | 0.27 | 0.68 | -1.9 | 10.81 | | |

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|--|------------------|--|-----------------|---|---------------------|--|-------------|
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| Project Name: Sarasota SPP | | | | | | | |
| Sample Name: VB-SCV09-42 #6 | | | | | | | |
| Analysis Date: 07-16-09 | | | | | | | |
| Analyzed By: | | | | | | | |
| Easting (ft): <div style="text-align: center;">490,396</div> | | Northing (ft): <div style="text-align: center;">938,140</div> | | Coordinate System: | | Elevation (ft): <div style="text-align: center;">-49.1 NAVD88</div> | |
| USCS: <div style="text-align: center;">SM</div> | | Munsell: <div style="text-align: center;">Wet - 5Y 6/2</div> | | Comments: | | | |
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%): | Organics (%): | Carbonates (%): | Shells (%): |
| | | | #230 - 17.07 | | | | 10.00 |
| 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 | |
| 3/8" | -3.25 | 9.48 | | 0.37 | | 0.37 | |
| #3.5 | -2.50 | 5.66 | | 0.97 | | 1.34 | |
| #4 | -2.25 | 4.75 | | 0.15 | | 1.49 | |
| #5 | -2.00 | 3.99 | | 0.30 | | 1.79 | |
| #7 | -1.50 | 2.82 | | 0.28 | | 2.07 | |
| #10 | -1.00 | 2.00 | | 0.59 | | 2.66 | |
| #14 | -0.50 | 1.41 | | 1.04 | | 3.70 | |
| #18 | 0.00 | 1.00 | | 0.94 | | 4.64 | |
| #25 | 0.50 | 0.71 | | 1.33 | | 5.97 | |
| #35 | 1.00 | 0.50 | | 1.99 | | 7.96 | |
| #45 | 1.50 | 0.35 | | 2.35 | | 10.31 | |
| #60 | 2.00 | 0.25 | | 4.14 | | 14.45 | |
| #80 | 2.50 | 0.18 | | 43.20 | | 57.65 | |
| #120 | 3.00 | 0.13 | | 21.03 | | 78.68 | |
| #170 | 3.50 | 0.09 | | 1.51 | | 80.19 | |
| #200 | 3.75 | 0.07 | | 1.17 | | 81.36 | |
| #230 | 4.00 | 0.06 | | 1.57 | | 82.93 | |
| | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| | | 2.91 | 2.41 | 2.12 | 2.01 | 0.14 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 2.11 | 0.23 | 1.09 | -2.76 | 12.4 | | |