



| Granularmetric Report | | | |  US Army Corps of Engineers Jacksonville District | | | |
|--|------------------|-----------------------------|-------------------|--|----------------------|---|----------|
| Project Name: Flagler HSDR Flagler HSDR | | | | | | | |
| Sample Name: VB-FC18-25 @ 1 ft | | | | | | | |
| Analysis Date: 3/29/2019 | | | | | | | |
| Easting (ft): 669,671 | | Northing (ft): 1,903,365 | | Coordinate System: State Plane, FLE (U.S. Ft.) | | Elevation (ft): -58.1 NAVD88 | |
| USCS: SW | | Munsell: 5Y 6/1 | | Fines (%): #200 - 1.42 #230 - 1.37 | | Organics (%): Carbonates (%): Shells (%): 35.2 | |
| Sieve Number | Sieve Size (Phi) | Sieve Size (Millimeters) | % Weight Retained | | C. % Weight Retained | | |
| 3/8" | -3.25 | 9.50 | 0.00 | | 0.00 | | |
| #3.5 | -2.50 | 5.60 | 1.89 | | 1.89 | | |
| #4 | -2.25 | 4.75 | 0.00 | | 1.89 | | |
| #5 | -2.00 | 4.00 | 0.18 | | 2.07 | | |
| #7 | -1.50 | 2.80 | 1.22 | | 3.29 | | |
| #10 | -1.00 | 2.00 | 1.54 | | 4.84 | | |
| #14 | -0.50 | 1.40 | 2.52 | | 7.36 | | |
| #18 | 0.00 | 1.00 | 3.32 | | 10.67 | | |
| #25 | 0.50 | 0.71 | 5.21 | | 15.88 | | |
| #35 | 1.00 | 0.50 | 8.36 | | 24.24 | | |
| #45 | 1.50 | 0.36 | 9.40 | | 33.64 | | |
| #60 | 2.00 | 0.25 | 14.39 | | 48.03 | | |
| #80 | 2.50 | 0.18 | 34.70 | | 82.73 | | |
| #120 | 3.00 | 0.13 | 14.64 | | 97.37 | | |
| #170 | 3.50 | 0.09 | 1.05 | | 98.42 | | |
| #200 | 3.75 | 0.08 | 0.16 | | 98.58 | | |
| #230 | 4.00 | 0.06 | 0.05 | | 98.63 | | |
| SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some fine to coarse-grained sand-sized shell, trace silt | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 2.92 | 2.54 | 2.39 | 2.03 | 1.04 | 0.51 | -0.97 | |
| Moment Statistics | Mean Phi | Mean mm | Median Phi | Median mm | Sorting | Skewness | Kurtosis |
| | 1.57 | 0.34 | 2.03 | 0.24 | 1.22 | -1.56 | 5.47 |

GRANULARMETRIC REPORT % FLAGLER HSDR - NAVD88 - WORKING.GPJ CESAJ 20171021.GDT 7/1/19

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|---|------------------|-----------------------------|-------------------|--|----------------------|---|----------|
| Project Name: Flagler HSDR Flagler HSDR | | | | | | | |
| Sample Name: VB-FC18-25 @ 5 ft | | | | | | | |
| Analysis Date: 3/29/2019 | | | | | | | |
| Easting (ft): 669,671 | | Northing (ft): 1,903,365 | | Coordinate System: State Plane, FLE (U.S. Ft.) | | Elevation (ft): -62.1 NAVD88 | |
| USCS: SW | | Munsell: 5Y 6/1 | | Fines (%): #200 - 2.08 #230 - 2.07 | | Organics (%): Carbonates (%): 23.26 | |
| Shells (%): 26.1 | | | | | | | |
| Sieve Number | Sieve Size (Phi) | Sieve Size (Millimeters) | % Weight Retained | | C. % Weight Retained | | |
| 3/8" | -3.25 | 9.50 | 0.00 | | 0.00 | | |
| #3.5 | -2.50 | 5.60 | 0.55 | | 0.55 | | |
| #4 | -2.25 | 4.75 | 0.00 | | 0.55 | | |
| #5 | -2.00 | 4.00 | 0.26 | | 0.80 | | |
| #7 | -1.50 | 2.80 | 0.56 | | 1.36 | | |
| #10 | -1.00 | 2.00 | 1.00 | | 2.36 | | |
| #14 | -0.50 | 1.40 | 1.92 | | 4.28 | | |
| #18 | 0.00 | 1.00 | 2.13 | | 6.41 | | |
| #25 | 0.50 | 0.71 | 2.65 | | 9.07 | | |
| #35 | 1.00 | 0.50 | 3.91 | | 12.97 | | |
| #45 | 1.50 | 0.36 | 6.10 | | 19.07 | | |
| #60 | 2.00 | 0.25 | 13.74 | | 32.81 | | |
| #80 | 2.50 | 0.18 | 42.86 | | 75.67 | | |
| #120 | 3.00 | 0.13 | 20.56 | | 96.23 | | |
| #170 | 3.50 | 0.09 | 1.50 | | 97.72 | | |
| #200 | 3.75 | 0.08 | 0.19 | | 97.92 | | |
| #230 | 4.00 | 0.06 | 0.01 | | 97.93 | | |
| <p>SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, trace silt</p> | | | | | | | |
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 | |
| 2.97 | 2.70 | 2.49 | 2.20 | 1.72 | 1.25 | -0.33 | |
| Moment | Mean Phi | Mean mm | Median Phi | Median mm | Sorting | Skewness | Kurtosis |
| Statistics | 1.91 | 0.27 | 2.20 | 0.22 | 0.99 | -2.06 | 7.93 |