

Onshore Grab Sample

Sample: ES-13-BB
Sample Taken By: D. Phelps
Sample Collected On: 3/29/11
Splits? N/A

County: Escambia
Latitude: 30° 19' 6.3" N
Longitude: 87° 19' 34.7" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

| | |
|-----------------------|--------------|
| Total Sample Weight | 49.049 grams |
| Total Fines in Sample | 0.021 grams |
| Total Percent Fines | 0.04 % |

Dry Sieving Summary

| | |
|------------------------|--------------|
| Total Sample Weight | 49.199 grams |
| Total Digested Weight | 48.905 grams |
| Total Carbonate Weight | 0.294 grams |
| Total Silica % | 99.40 % |
| Total Carbonate % | 0.60 % |
| Carbonate/Silica Ratio | 0.006 |

General Comments:

Not Enough Carbonate Material to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: ES-13-BB

Total Sample Mass: 49.199 grams

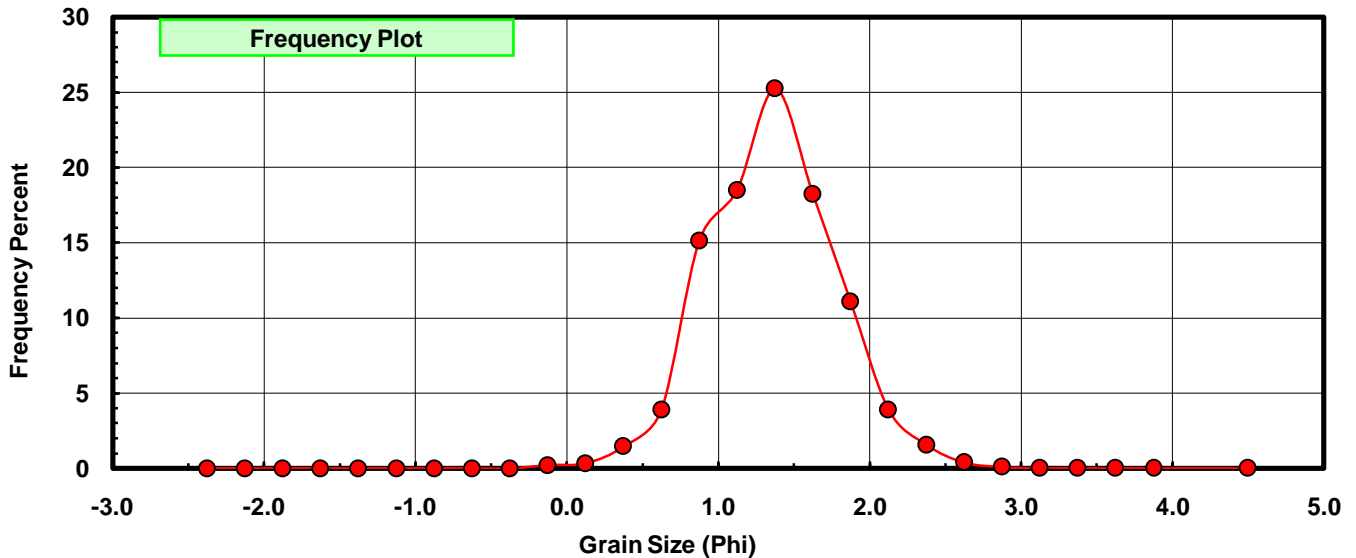
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.25 | -2.375 | 0.000 | 0.000 | 0.000 |
| -2.00 | -2.125 | 0.000 | 0.000 | 0.000 |
| -1.75 | -1.875 | 0.000 | 0.000 | 0.000 |
| -1.50 | -1.625 | 0.000 | 0.000 | 0.000 |
| -1.25 | -1.375 | 0.000 | 0.000 | 0.000 |
| -1.00 | -1.125 | 0.000 | 0.000 | 0.000 |
| -0.75 | -0.875 | 0.000 | 0.000 | 0.000 |
| -0.50 | -0.625 | 0.000 | 0.000 | 0.000 |
| -0.25 | -0.375 | 0.000 | 0.000 | 0.000 |
| 0.00 | -0.125 | 0.101 | 0.205 | 0.205 |
| 0.25 | 0.125 | 0.160 | 0.325 | 0.530 |
| 0.50 | 0.375 | 0.715 | 1.453 | 1.984 |
| 0.75 | 0.625 | 1.915 | 3.892 | 5.876 |
| 1.00 | 0.875 | 7.435 | 15.112 | 20.988 |
| 1.25 | 1.125 | 9.087 | 18.470 | 39.458 |
| 1.50 | 1.375 | 12.422 | 25.248 | 64.707 |
| 1.75 | 1.625 | 8.965 | 18.222 | 82.929 |
| 2.00 | 1.875 | 5.446 | 11.069 | 93.998 |
| 2.25 | 2.125 | 1.919 | 3.900 | 97.898 |
| 2.50 | 2.375 | 0.766 | 1.557 | 99.455 |
| 2.75 | 2.625 | 0.194 | 0.394 | 99.850 |
| 3.00 | 2.875 | 0.044 | 0.089 | 99.939 |
| 3.25 | 3.125 | 0.010 | 0.020 | 99.959 |
| 3.50 | 3.375 | 0.009 | 0.018 | 99.978 |
| 3.75 | 3.625 | 0.004 | 0.008 | 99.986 |
| 4.00 | 3.875 | 0.004 | 0.008 | 99.994 |
| 5.00 | 4.50 | 0.003 | 0.006 | 100.000 |

| Statistical Results | | | |
|---------------------|---------|---------------|-------------|
| Mean: | 1.3557 | phi | (0.3907 mm) |
| Standard Dev: | 0.4318 | phi-units | (0.7413 mm) |
| Skewness: | 0.1346 | dimensionless | |
| Kurtosis: | 3.5622 | dimensionless | |
| 5th Moment: | 3.0440 | dimensionless | |
| 6th Moment: | 34.3778 | dimensionless | |
| RARD * | 0.3185 | dimensionless | |
| Median | 1.2294 | phi | (0.4265 mm) |

* RARD = reciprocal absolute relative dispersion (see below)

| Statistical Explanation | |
|---|--|
| Calculations based on the Method of Moments | |
| Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0 | |
| Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0 | |
| For Further Explanation, See Basille et al. 2002 | |
| Millimeter data calculated by $mm = 2^{(-\phi)}$ | |

| Reciprocal Absolute Relative Dispersion (RARD) Scale | |
|--|---------------------------------------|
| < 0.5 | Excellent homogeneity (e.g., beaches) |
| 0.5 to 1.0 | Good homogeneity |
| 1.0 to 1.33 | Fair homogeneity |
| > 1.33 | Poor homogeneity (e.g., glacial) |



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