

Onshore Grab Sample

Sample: DD-07-BB
Sample Taken By: D. Phelps
Sample Collected On: 2/28/09
Splits? N/A

County: Dade
Latitude: 25° 52' 36.5"
Longitude: 80° 07' 12.7"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 57.169 grams
Total Fines in Sample 0.709 grams
Total Percent Fines 1.22 %

Dry Sieving Summary

Total Sample Weight 56.559 grams
Total Digested Weight 4.831 grams
Total Carbonate Weight 51.728 grams
Total Silica % 8.54 %
Total Carbonate % 91.46 %
Carbonate/Silica Ratio 10.708

General Comments:

Not Enough Sample to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DD-07-BB

Total Sample Mass: 56.559 grams

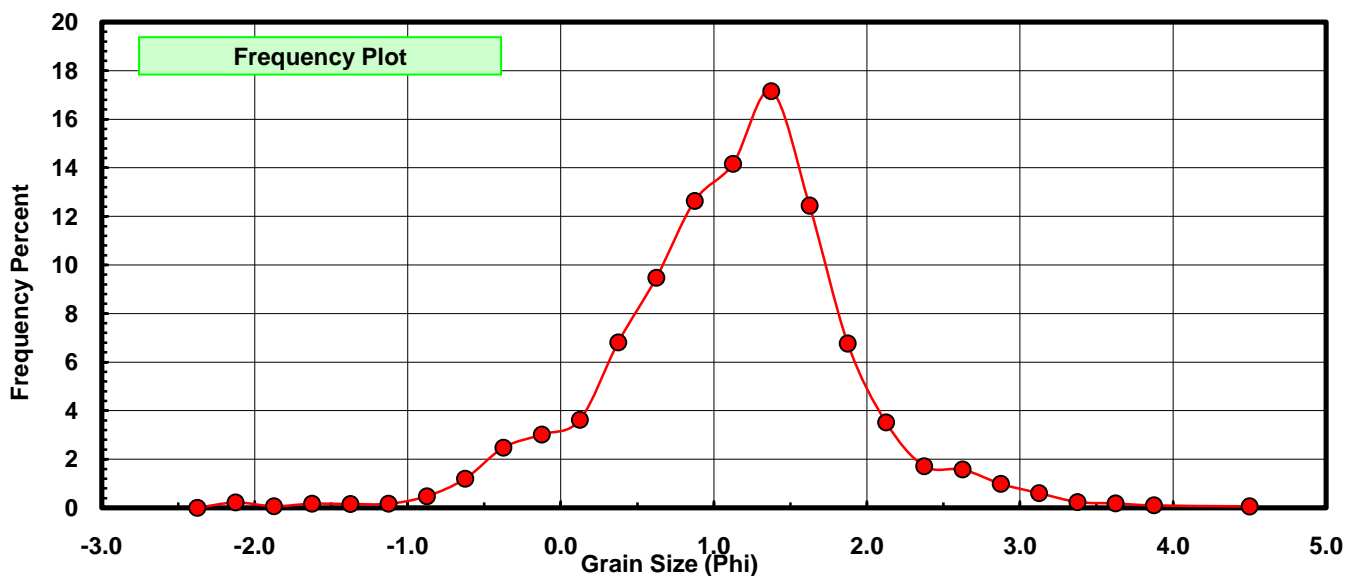
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.25 | -2.375 | 0.000 | 0.000 | 0.000 |
| -2.00 | -2.125 | 0.124 | 0.219 | 0.219 |
| -1.75 | -1.875 | 0.037 | 0.065 | 0.285 |
| -1.50 | -1.625 | 0.095 | 0.168 | 0.453 |
| -1.25 | -1.375 | 0.089 | 0.157 | 0.610 |
| -1.00 | -1.125 | 0.094 | 0.166 | 0.776 |
| -0.75 | -0.875 | 0.271 | 0.479 | 1.255 |
| -0.50 | -0.625 | 0.676 | 1.195 | 2.451 |
| -0.25 | -0.375 | 1.402 | 2.479 | 4.929 |
| 0.00 | -0.125 | 1.706 | 3.016 | 7.946 |
| 0.25 | 0.125 | 2.049 | 3.623 | 11.568 |
| 0.50 | 0.375 | 3.851 | 6.809 | 18.377 |
| 0.75 | 0.625 | 5.361 | 9.479 | 27.856 |
| 1.00 | 0.875 | 7.149 | 12.640 | 40.496 |
| 1.25 | 1.125 | 8.008 | 14.159 | 54.654 |
| 1.50 | 1.375 | 9.702 | 17.154 | 71.808 |
| 1.75 | 1.625 | 7.038 | 12.444 | 84.252 |
| 2.00 | 1.875 | 3.826 | 6.765 | 91.016 |
| 2.25 | 2.125 | 1.990 | 3.518 | 94.535 |
| 2.50 | 2.375 | 0.971 | 1.717 | 96.252 |
| 2.75 | 2.625 | 0.892 | 1.577 | 97.829 |
| 3.00 | 2.875 | 0.558 | 0.987 | 98.815 |
| 3.25 | 3.125 | 0.342 | 0.605 | 99.420 |
| 3.50 | 3.375 | 0.137 | 0.242 | 99.662 |
| 3.75 | 3.625 | 0.102 | 0.180 | 99.843 |
| 4.00 | 3.875 | 0.056 | 0.099 | 99.942 |
| 5.00 | 4.50 | 0.033 | 0.058 | 100.000 |

| Statistical Results | | | |
|---------------------|---------|---------------|-------------|
| Mean: | 1.1121 | phi | (0.4626 mm) |
| Standard Dev: | 0.7777 | phi-units | (0.5833 mm) |
| Skewness: | -0.2237 | dimensionless | |
| Kurtosis: | 4.4111 | dimensionless | |
| 5th Moment: | -2.6505 | dimensionless | |
| 6th Moment: | 38.8103 | dimensionless | |
| RARD * | 0.6993 | dimensionless | |
| Median | 1.0428 | phi | (0.4854 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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