

Onshore Grab Sample

Sample: GF-02-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/11/11
Splits? N/A

County: Gulf
Latitude: 29° 54' 45" N
Longitude: 85° 22' 35.4" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 52.279 grams
Total Fines in Sample 0.076 grams
Total Percent Fines 0.15 %

Dry Sieving Summary

Total Sample Weight 52.169 grams
Total Digested Weight 51.997 grams
Total Carbonate Weight 0.172 grams
Total Silica % 99.67 %
Total Carbonate % 0.33 %
Carbonate/Silica Ratio 0.003

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: GF-02-BB

Total Sample Mass: 52.169 grams

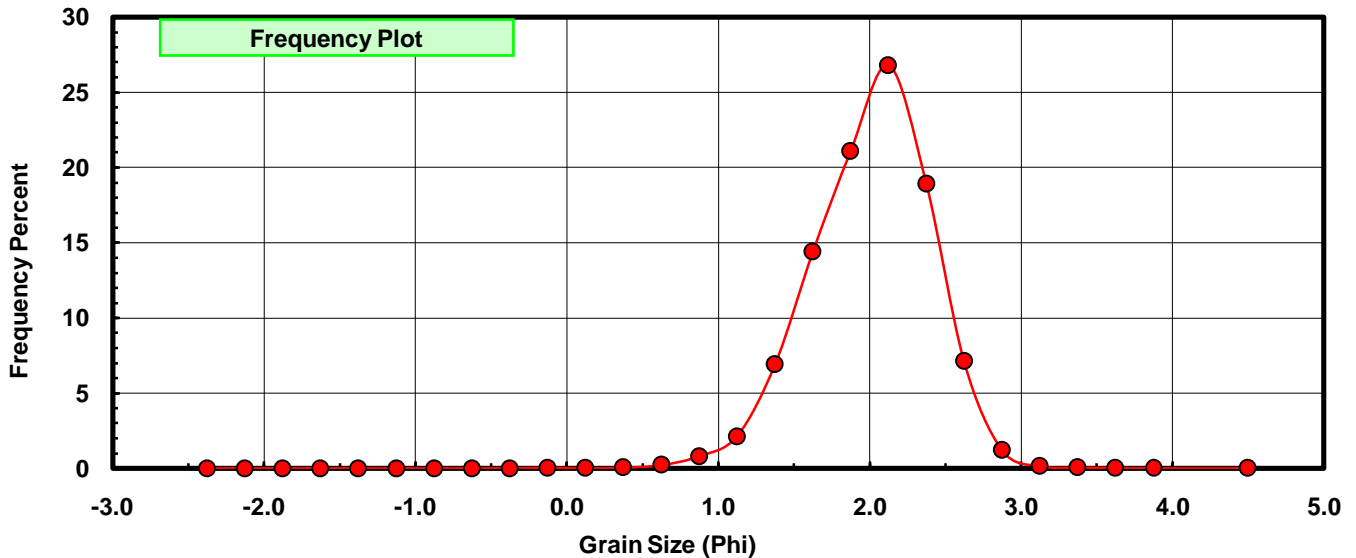
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.25 | -2.375 | 0.000 | 0.000 | 0.000 |
| -2.00 | -2.125 | 0.000 | 0.000 | 0.000 |
| -1.75 | -1.875 | 0.000 | 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 | 0.015 | 0.029 | 0.029 |
| 0.25 | 0.125 | 0.009 | 0.017 | 0.046 |
| 0.50 | 0.375 | 0.034 | 0.065 | 0.111 |
| 0.75 | 0.625 | 0.120 | 0.230 | 0.341 |
| 1.00 | 0.875 | 0.415 | 0.795 | 1.137 |
| 1.25 | 1.125 | 1.106 | 2.120 | 3.257 |
| 1.50 | 1.375 | 3.618 | 6.935 | 10.192 |
| 1.75 | 1.625 | 7.524 | 14.422 | 24.614 |
| 2.00 | 1.875 | 11.007 | 21.099 | 45.713 |
| 2.25 | 2.125 | 13.984 | 26.805 | 72.518 |
| 2.50 | 2.375 | 9.869 | 18.917 | 91.436 |
| 2.75 | 2.625 | 3.711 | 7.113 | 98.549 |
| 3.00 | 2.875 | 0.634 | 1.215 | 99.764 |
| 3.25 | 3.125 | 0.076 | 0.146 | 99.910 |
| 3.50 | 3.375 | 0.025 | 0.048 | 99.958 |
| 3.75 | 3.625 | 0.013 | 0.025 | 99.983 |
| 4.00 | 3.875 | 0.005 | 0.010 | 99.992 |
| 5.00 | 4.50 | 0.004 | 0.008 | 100.000 |

| Statistical Results | | | |
|---------------------|---------|---------------|-------------|
| Mean: | 2.0062 | phi | (0.2489 mm) |
| Standard Dev: | 0.4001 | phi-units | (0.7578 mm) |
| Skewness: | -0.3792 | dimensionless | |
| Kurtosis: | 3.6490 | dimensionless | |
| 5th Moment: | -3.8701 | dimensionless | |
| 6th Moment: | 34.0411 | dimensionless | |
| RARD * | 0.1994 | dimensionless | |
| Median | 1.9150 | phi | (0.2652 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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