

Onshore Grab Sample

Sample: BY-30-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/31/11
Splits? N/A

County: Bay
Latitude: 30° 3' 17.3" N
Longitude: 85° 36' 10.4" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 37.89 grams
Total Fines in Sample 0.003 grams
Total Percent Fines 0.01 %

Dry Sieving Summary

Total Sample Weight 37.763 grams
Total Digested Weight 37.770 grams
Total Carbonate Weight -0.007 grams
Total Silica % 100.02 %
Total Carbonate % -0.02 %
Carbonate/Silica Ratio 0.000

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: BY-30-BB

Total Sample Mass: 37.763 grams

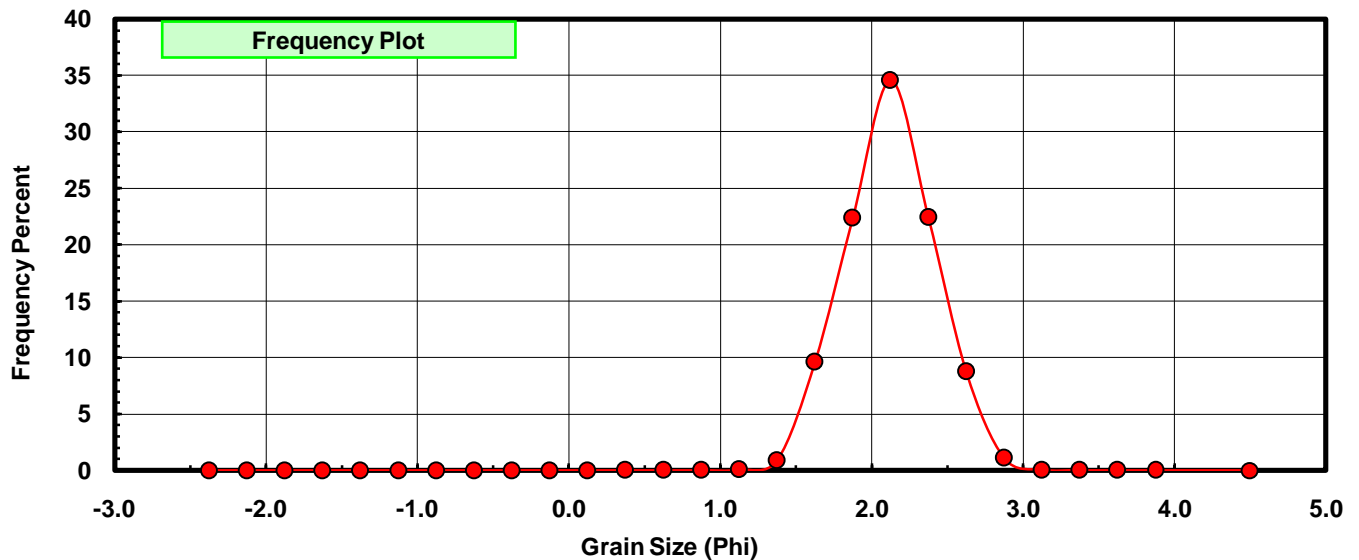
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.25 | -2.375 | 0.000 | 0.000 | 0.000 |
| -2.00 | -2.125 | 0.000 | 0.000 | 0.000 |
| -1.75 | -1.875 | 0.000 | 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 | 0.000 | 0.000 | 0.000 |
| 0.25 | 0.125 | 0.000 | 0.000 | 0.000 |
| 0.50 | 0.375 | 0.007 | 0.019 | 0.019 |
| 0.75 | 0.625 | 0.006 | 0.016 | 0.034 |
| 1.00 | 0.875 | 0.010 | 0.026 | 0.061 |
| 1.25 | 1.125 | 0.024 | 0.064 | 0.124 |
| 1.50 | 1.375 | 0.343 | 0.908 | 1.033 |
| 1.75 | 1.625 | 3.622 | 9.591 | 10.624 |
| 2.00 | 1.875 | 8.449 | 22.374 | 32.998 |
| 2.25 | 2.125 | 13.058 | 34.579 | 67.577 |
| 2.50 | 2.375 | 8.475 | 22.443 | 90.019 |
| 2.75 | 2.625 | 3.314 | 8.776 | 98.795 |
| 3.00 | 2.875 | 0.422 | 1.117 | 99.913 |
| 3.25 | 3.125 | 0.019 | 0.050 | 99.963 |
| 3.50 | 3.375 | 0.006 | 0.016 | 99.979 |
| 3.75 | 3.625 | 0.003 | 0.008 | 99.987 |
| 4.00 | 3.875 | 0.004 | 0.011 | 99.997 |
| 5.00 | 4.50 | 0.001 | 0.003 | 100.000 |

| Statistical Results | | | |
|---------------------|---------|---------------|-------------|
| Mean: | 2.1222 | phi | (0.2297 mm) |
| Standard Dev: | 0.3018 | phi-units | (0.8112 mm) |
| Skewness: | -0.0023 | dimensionless | |
| Kurtosis: | 3.2905 | dimensionless | |
| 5th Moment: | 0.1034 | dimensionless | |
| 6th Moment: | 34.1958 | dimensionless | |
| RARD * | 0.1422 | dimensionless | |
| Median | 1.9979 | phi | (0.2504 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) |



BY-30-BB

