

Onshore Grab Sample

Sample: MO-27
Sample Taken By: D. Phelps
Sample Collected On: 4/14/10
Splits? N/A

County: Monroe
Latitude: 24° 36' 24.9"
Longitude: 81° 33' 42.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 28.703 grams
Total Fines in Sample 0.641 grams
Total Percent Fines 2.18 %

Dry Sieving Summary

Total Sample Weight 28.352 grams
Total Digested Weight 0.043 grams
Total Carbonate Weight 28.309 grams
Total Silica % 0.15 %
Total Carbonate % 99.85 %
Carbonate/Silica Ratio 658.349

General Comments:

Not Enough Sample to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MO-27

Total Sample Mass: 28.352 grams

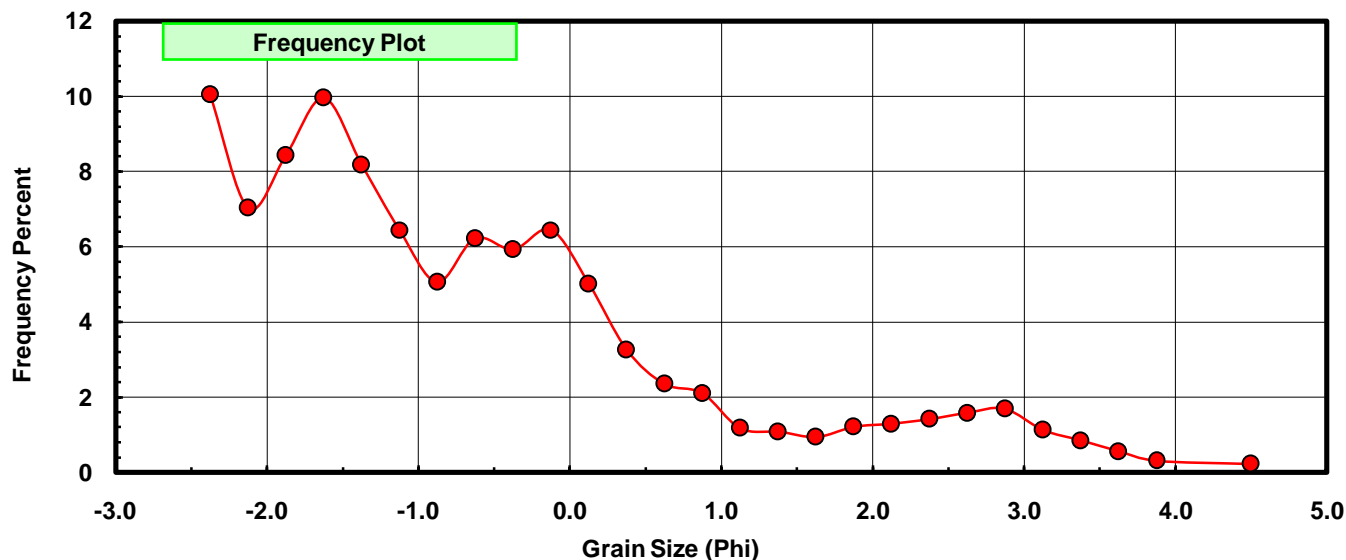
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.25 | -2.375 | 2.850 | 10.052 | 10.052 |
| -2.00 | -2.125 | 1.994 | 7.033 | 17.085 |
| -1.75 | -1.875 | 2.393 | 8.440 | 25.526 |
| -1.50 | -1.625 | 2.825 | 9.964 | 35.490 |
| -1.25 | -1.375 | 2.321 | 8.186 | 43.676 |
| -1.00 | -1.125 | 1.829 | 6.451 | 50.127 |
| -0.75 | -0.875 | 1.435 | 5.061 | 55.188 |
| -0.50 | -0.625 | 1.765 | 6.225 | 61.414 |
| -0.25 | -0.375 | 1.681 | 5.929 | 67.343 |
| 0.00 | -0.125 | 1.829 | 6.451 | 73.794 |
| 0.25 | 0.125 | 1.422 | 5.016 | 78.809 |
| 0.50 | 0.375 | 0.925 | 3.263 | 82.072 |
| 0.75 | 0.625 | 0.668 | 2.356 | 84.428 |
| 1.00 | 0.875 | 0.598 | 2.109 | 86.537 |
| 1.25 | 1.125 | 0.335 | 1.182 | 87.719 |
| 1.50 | 1.375 | 0.307 | 1.083 | 88.801 |
| 1.75 | 1.625 | 0.267 | 0.942 | 89.743 |
| 2.00 | 1.875 | 0.343 | 1.210 | 90.953 |
| 2.25 | 2.125 | 0.366 | 1.291 | 92.244 |
| 2.50 | 2.375 | 0.401 | 1.414 | 93.658 |
| 2.75 | 2.625 | 0.447 | 1.577 | 95.235 |
| 3.00 | 2.875 | 0.480 | 1.693 | 96.928 |
| 3.25 | 3.125 | 0.320 | 1.129 | 98.057 |
| 3.50 | 3.375 | 0.240 | 0.847 | 98.903 |
| 3.75 | 3.625 | 0.159 | 0.561 | 99.464 |
| 4.00 | 3.875 | 0.088 | 0.310 | 99.774 |
| 5.00 | 4.50 | 0.064 | 0.226 | 100.000 |

| Statistical Results | | | |
|---------------------|---------|---------------|-------------|
| Mean: | -0.6317 | phi | (1.5494 mm) |
| Standard Dev: | 1.5262 | phi-units | (0.3472 mm) |
| Skewness: | 1.0669 | dimensionless | |
| Kurtosis: | 3.4753 | dimensionless | |
| 5th Moment: | 7.4096 | dimensionless | |
| 6th Moment: | 19.9699 | dimensionless | |
| RARD * | 2.4160 | dimensionless | |
| Median | -1.1299 | phi | (2.1885 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) |



MO-27

