

**Onshore Grab Sample**

**Sample:** SR-02-MB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 9/14/06  
**Splits?** Yes

**County:** Santa Rosa  
**Latitude:** 30° 22' 59.62"  
**Longitude:** 86° 50' 15.92"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 72.234 grams  
Total Fines in Sample 0.018 grams  
Total Percent Fines 0.02 %

**Dry Sieving Summary**

Total Sample Weight 72.166 grams  
Total Digested Weight 72.069 grams  
Total Carbonate Weight 0.097 grams  
Total Silica % 99.87 %  
Total Carbonate % 0.13 %  
Carbonate/Silica Ratio 0.001

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SR-02-MB

Total Sample Mass: 72.166 grams

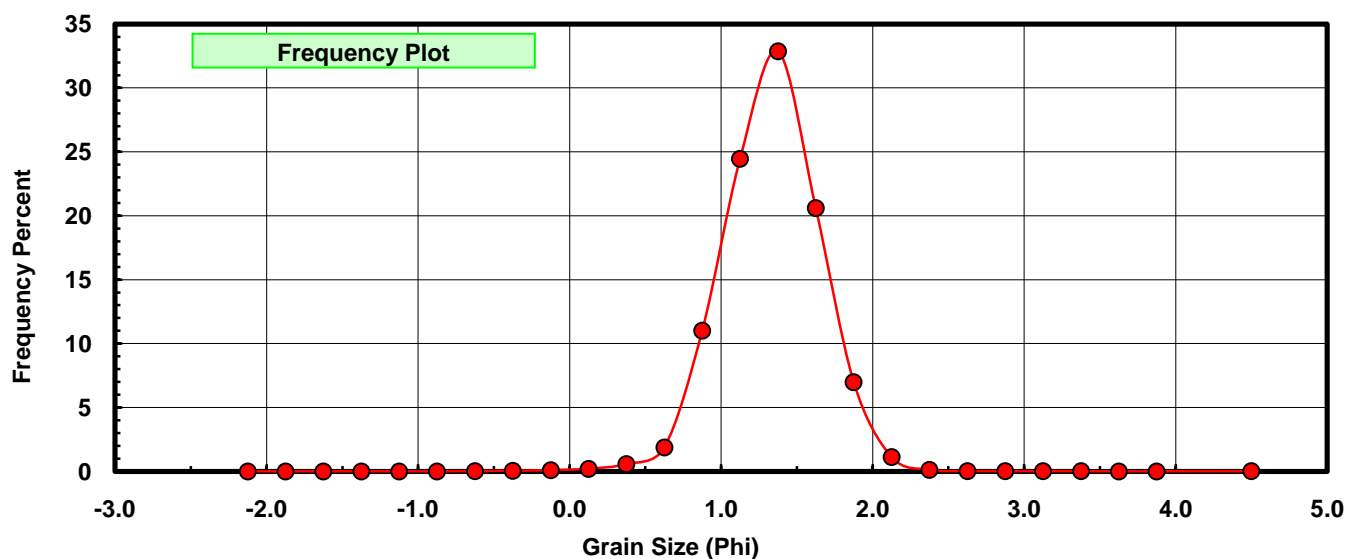
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.00            | -2.125            | 0.000          | 0.000         | 0.000               |
| -1.75            | -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            | 0.011          | 0.015         | 0.015               |
| -0.25            | -0.375            | 0.034          | 0.047         | 0.062               |
| 0.00             | -0.125            | 0.065          | 0.090         | 0.152               |
| 0.25             | 0.125             | 0.145          | 0.201         | 0.353               |
| 0.50             | 0.375             | 0.409          | 0.567         | 0.920               |
| 0.75             | 0.625             | 1.356          | 1.879         | 2.799               |
| 1.00             | 0.875             | 7.941          | 11.004        | 13.803              |
| 1.25             | 1.125             | 17.648         | 24.455        | 38.258              |
| 1.50             | 1.375             | 23.723         | 32.873        | 71.130              |
| 1.75             | 1.625             | 14.856         | 20.586        | 91.716              |
| 2.00             | 1.875             | 5.042          | 6.987         | 98.703              |
| 2.25             | 2.125             | 0.815          | 1.129         | 99.832              |
| 2.50             | 2.375             | 0.085          | 0.118         | 99.950              |
| 2.75             | 2.625             | 0.014          | 0.019         | 99.970              |
| 3.00             | 2.875             | 0.005          | 0.007         | 99.976              |
| 3.25             | 3.125             | 0.005          | 0.007         | 99.983              |
| 3.50             | 3.375             | 0.005          | 0.007         | 99.990              |
| 3.75             | 3.625             | 0.001          | 0.001         | 99.992              |
| 4.00             | 3.875             | 0.002          | 0.003         | 99.994              |
| 5.00             | 4.50              | 0.004          | 0.006         | 100.000             |

| Statistical Results |          |               |             |
|---------------------|----------|---------------|-------------|
| Mean:               | 1.3310   | phi           | (0.3975 mm) |
| Standard Dev:       | 0.3246   | phi-units     | (0.7985 mm) |
| Skewness:           | -0.1889  | dimensionless |             |
| Kurtosis:           | 4.8100   | dimensionless |             |
| 5th Moment:         | 0.8853   | dimensionless |             |
| 6th Moment:         | 107.2665 | dimensionless |             |
| RARD *              | 0.2439   | dimensionless |             |
| Median              | 1.2143   | phi           | (0.431 mm)  |

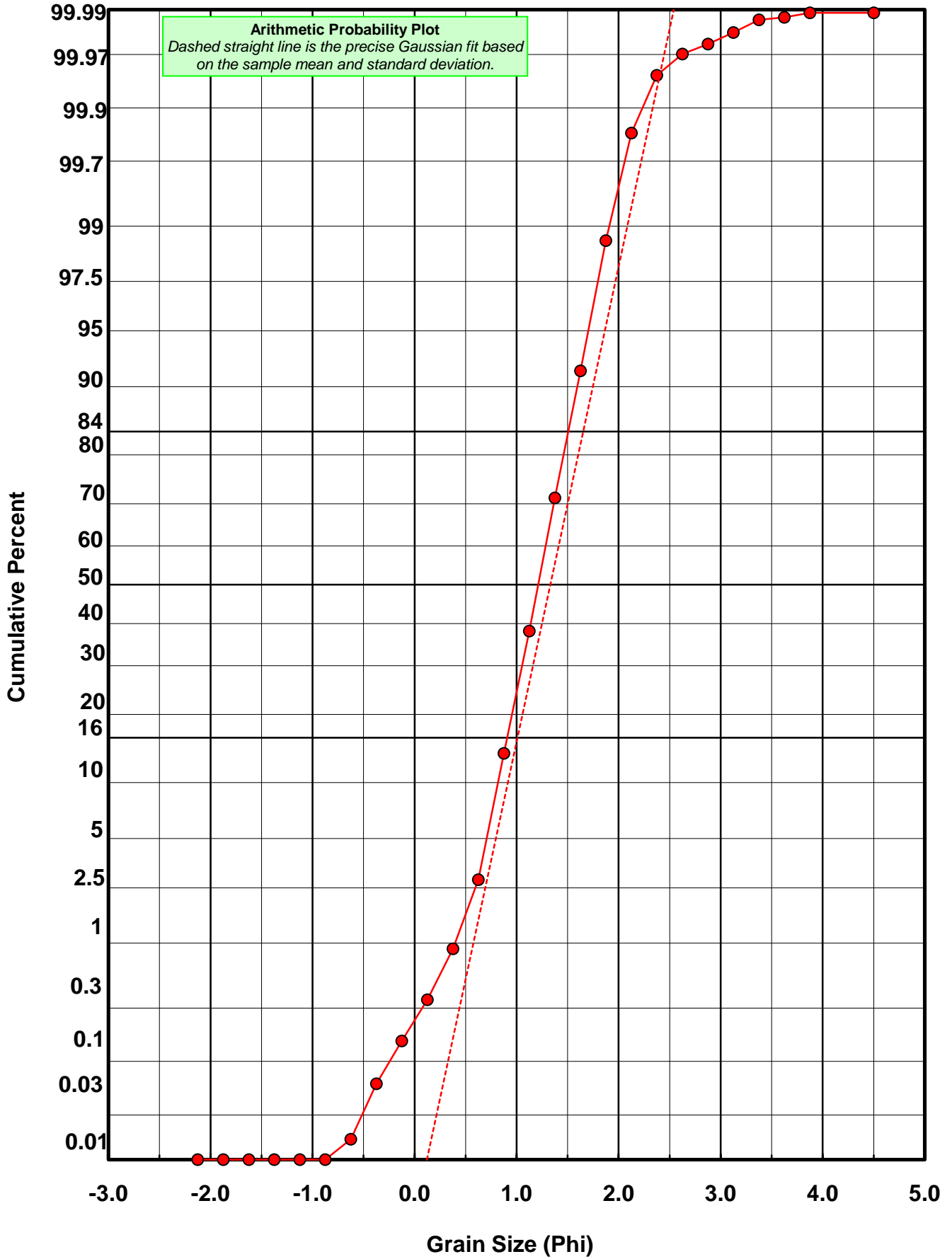
\* RARD = reciprocal absolute relative dispersion (see below)

| 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)      |



# SR-02-MB



# Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SR-02-MB

Total Carbonate Mass: 2.214 grams

% Carbonate: 0.1 %

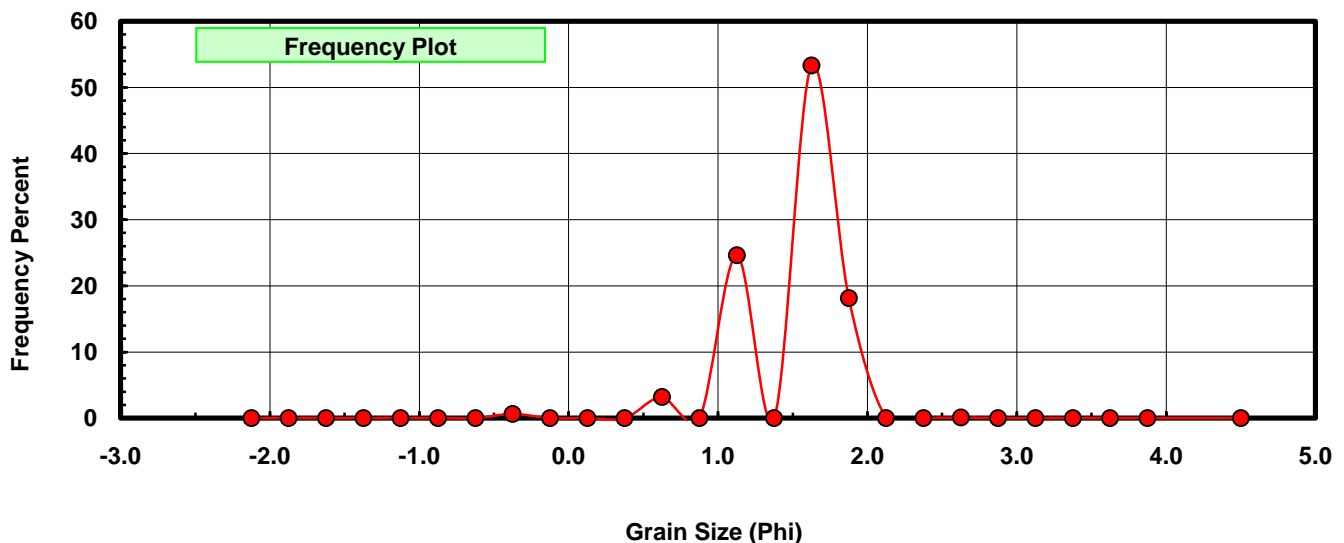
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.00            | -2.125            | 0.000          | 0.000         | 0.000               |
| -1.75            | -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            | 0.014          | 0.632         | 0.632               |
| 0.00             | -0.125            | 0.000          | 0.000         | 0.632               |
| 0.25             | 0.125             | 0.000          | 0.000         | 0.632               |
| 0.50             | 0.375             | 0.000          | 0.000         | 0.632               |
| 0.75             | 0.625             | 0.071          | 3.207         | 3.839               |
| 1.00             | 0.875             | 0.000          | 0.000         | 3.839               |
| 1.25             | 1.125             | 0.545          | 24.616        | 28.455              |
| 1.50             | 1.375             | 0.000          | 0.000         | 28.455              |
| 1.75             | 1.625             | 1.180          | 53.297        | 81.752              |
| 2.00             | 1.875             | 0.402          | 18.157        | 99.910              |
| 2.25             | 2.125             | 0.000          | 0.000         | 99.910              |
| 2.50             | 2.375             | 0.000          | 0.000         | 99.910              |
| 2.75             | 2.625             | 0.002          | 0.090         | 100.000             |
| 3.00             | 2.875             | 0.000          | 0.000         | 100.000             |
| 3.25             | 3.125             | 0.000          | 0.000         | 100.000             |
| 3.50             | 3.375             | 0.000          | 0.000         | 100.000             |
| 3.75             | 3.625             | 0.000          | 0.000         | 100.000             |
| 4.00             | 3.875             | 0.000          | 0.000         | 100.000             |
| 5.00             | 4.500             | 0.000          | 0.000         | 100.000             |

| Statistical Results |          |               |             |
|---------------------|----------|---------------|-------------|
| Mean:               | 1.5035   | phi           | (0.3527 mm) |
| Standard Dev:       | 0.3412   | phi-units     | (0.7894 mm) |
| Skewness:           | -1.6487  | dimensionless |             |
| Kurtosis:           | 7.9646   | dimensionless |             |
| 5th Moment:         | -35.4203 | dimensionless |             |
| 6th Moment:         | 187.4697 | dimensionless |             |
| RARD *              | 0.2269   | dimensionless |             |
| Median              | 1.4761   | phi           | (0.3595 mm) |

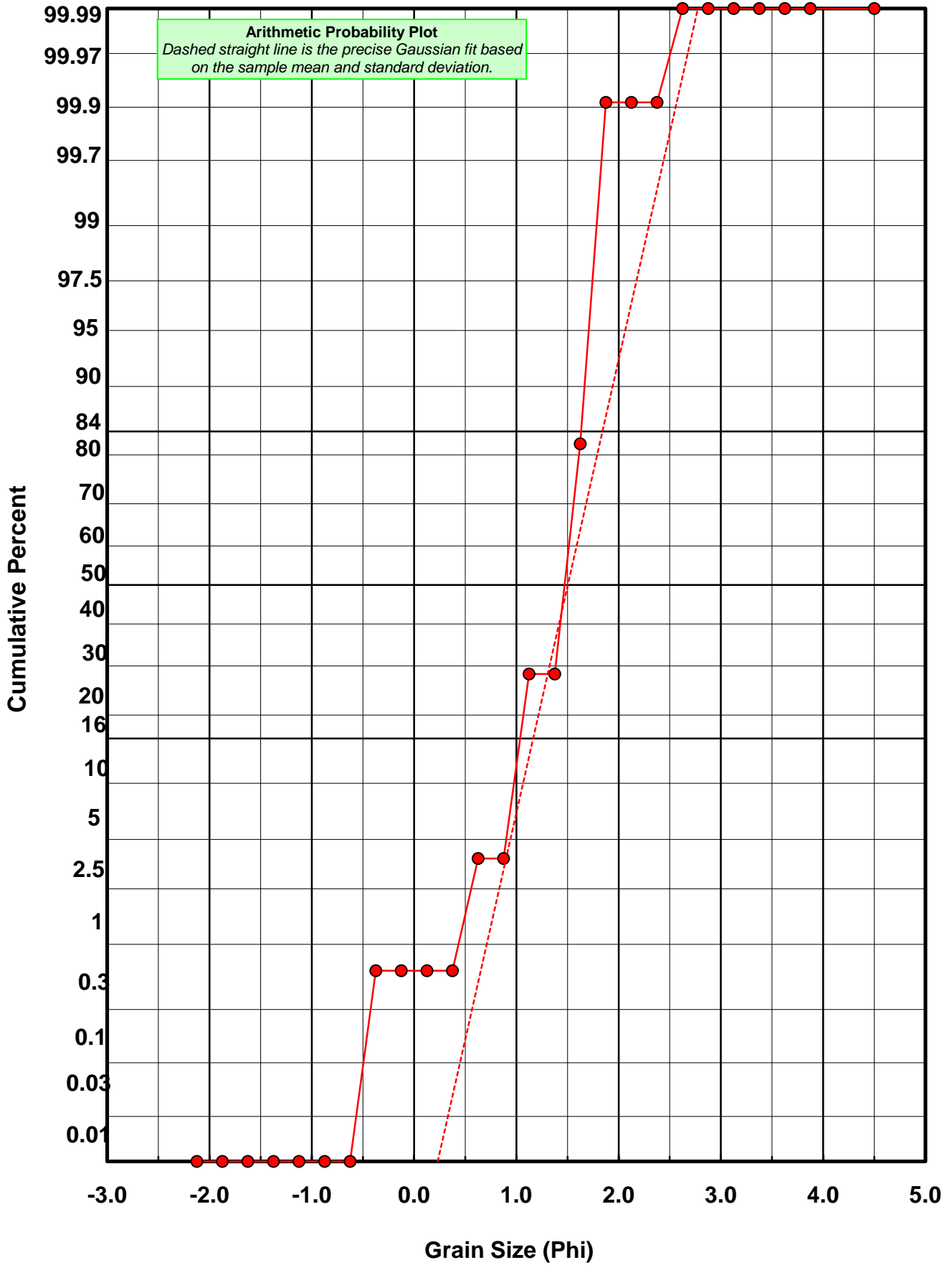
\* RARD = reciprocal absolute relative dispersion (see below)

| 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)      |



# SR-02-MB



# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SR-02-MB

Total Digested Mass: 72.069 grams

% Silica: 99.9 %

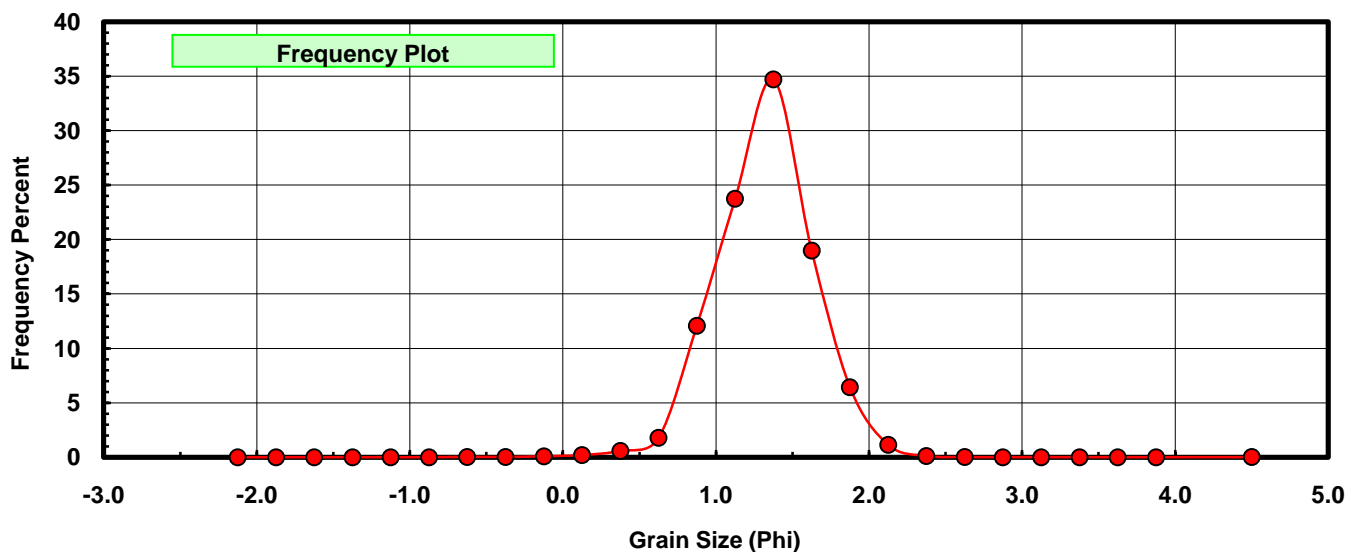
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.00            | -2.125            | 0.000          | 0.000         | 0.000               |
| -1.75            | -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            | 0.024          | 0.033         | 0.033               |
| -0.25            | -0.375            | 0.020          | 0.028         | 0.061               |
| 0.00             | -0.125            | 0.066          | 0.092         | 0.153               |
| 0.25             | 0.125             | 0.147          | 0.204         | 0.357               |
| 0.50             | 0.375             | 0.423          | 0.587         | 0.944               |
| 0.75             | 0.625             | 1.285          | 1.783         | 2.727               |
| 1.00             | 0.875             | 8.712          | 12.088        | 14.815              |
| 1.25             | 1.125             | 17.103         | 23.731        | 38.546              |
| 1.50             | 1.375             | 25.017         | 34.713        | 73.259              |
| 1.75             | 1.625             | 13.676         | 18.976        | 92.235              |
| 2.00             | 1.875             | 4.640          | 6.438         | 98.673              |
| 2.25             | 2.125             | 0.824          | 1.143         | 99.817              |
| 2.50             | 2.375             | 0.088          | 0.122         | 99.939              |
| 2.75             | 2.625             | 0.012          | 0.017         | 99.956              |
| 3.00             | 2.875             | 0.006          | 0.008         | 99.964              |
| 3.25             | 3.125             | 0.005          | 0.007         | 99.971              |
| 3.50             | 3.375             | 0.005          | 0.007         | 99.978              |
| 3.75             | 3.625             | 0.004          | 0.006         | 99.983              |
| 4.00             | 3.875             | 0.004          | 0.006         | 99.989              |
| 5.00             | 4.500             | 0.008          | 0.011         | 100.000             |

| Statistical Results |          |               |             |
|---------------------|----------|---------------|-------------|
| Mean:               | 1.3215   | phi           | (0.4001 mm) |
| Standard Dev:       | 0.3244   | phi-units     | (0.7986 mm) |
| Skewness:           | -0.0939  | dimensionless |             |
| Kurtosis:           | 5.6258   | dimensionless |             |
| 5th Moment:         | 7.4806   | dimensionless |             |
| 6th Moment:         | 174.6790 | dimensionless |             |
| RARD *              | 0.2455   | dimensionless |             |
| Median              | 1.2075   | phi           | (0.433 mm)  |

\* RARD = reciprocal absolute relative dispersion (see below)

| Statistical Explanation                           |  |
|---|--|
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| Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0 |  |
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# SR-02-MB

