

Onshore Grab Sample

Sample: SJ-28-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 52' 32.2"
Longitude: 81° 16' 13.3"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 73.38 grams
Total Fines in Sample 0.910 grams
Total Percent Fines 1.22 %

Dry Sieving Summary

Total Sample Weight 72.513 grams
Total Digested Weight 71.337 grams
Total Carbonate Weight 1.176 grams
Total Silica % 98.38 %
Total Carbonate % 1.62 %
Carbonate/Silica Ratio 0.016

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-28-SS

Total Sample Mass: 72.513 grams

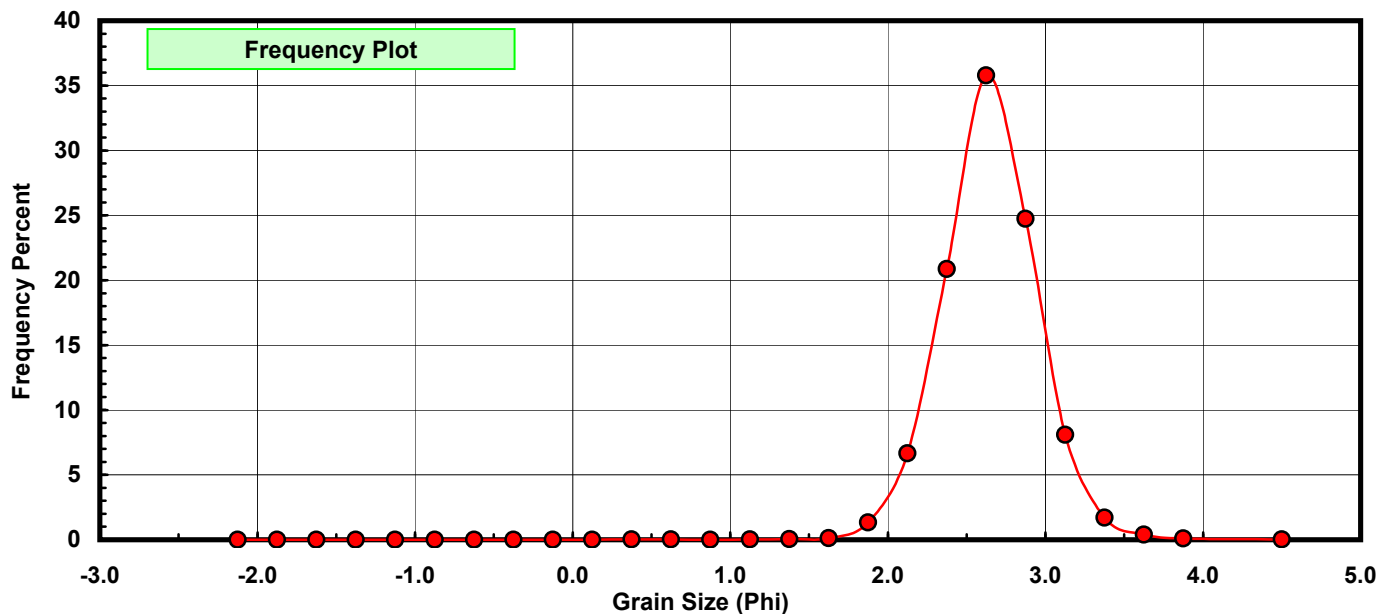
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.00 | -2.125 | 0.000 | 0.000 | 0.000 |
| -1.75 | -1.875 | 0.000 | 0.000 | 0.000 |
| -1.50 | -1.625 | 0.000 | 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 | 0.005 | 0.007 | 0.007 |
| -0.25 | -0.375 | 0.004 | 0.006 | 0.012 |
| 0.00 | -0.125 | 0.005 | 0.007 | 0.019 |
| 0.25 | 0.125 | 0.004 | 0.006 | 0.025 |
| 0.50 | 0.375 | 0.026 | 0.036 | 0.061 |
| 0.75 | 0.625 | 0.014 | 0.019 | 0.080 |
| 1.00 | 0.875 | 0.008 | 0.011 | 0.091 |
| 1.25 | 1.125 | 0.010 | 0.014 | 0.105 |
| 1.50 | 1.375 | 0.032 | 0.044 | 0.149 |
| 1.75 | 1.625 | 0.088 | 0.121 | 0.270 |
| 2.00 | 1.875 | 0.967 | 1.334 | 1.604 |
| 2.25 | 2.125 | 4.830 | 6.661 | 8.265 |
| 2.50 | 2.375 | 15.135 | 20.872 | 29.137 |
| 2.75 | 2.625 | 25.952 | 35.789 | 64.926 |
| 3.00 | 2.875 | 17.934 | 24.732 | 89.658 |
| 3.25 | 3.125 | 5.863 | 8.085 | 97.744 |
| 3.50 | 3.375 | 1.239 | 1.709 | 99.453 |
| 3.75 | 3.625 | 0.295 | 0.407 | 99.859 |
| 4.00 | 3.875 | 0.077 | 0.106 | 99.966 |
| 5.00 | 4.500 | 0.025 | 0.034 | 100.000 |

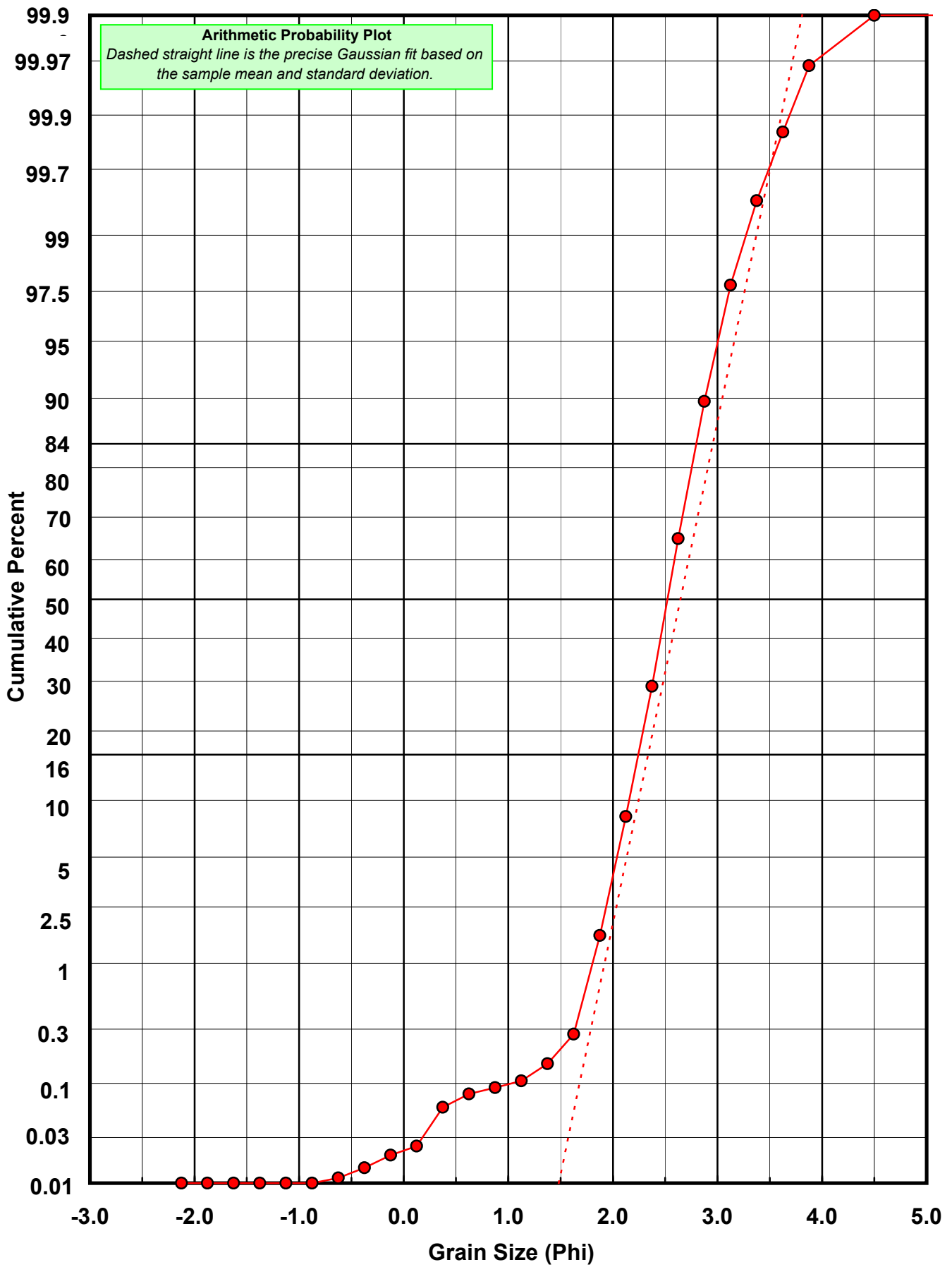
| Statistical Results | | | |
|---------------------|----------|---------------|-------------|
| Mean: | 2.6466 | phi | (0.1597 mm) |
| Standard Dev: | 0.3123 | phi-units | (0.8054 mm) |
| Skewness: | -0.2917 | dimensionless | |
| Kurtosis: | 7.0988 | dimensionless | |
| 5th Moment: | -26.4139 | dimensionless | |
| 6th Moment: | 297.0127 | dimensionless | |
| RARD * | 0.1180 | dimensionless | |
| Median | 2.5207 | phi | (0.1743 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 Calculation Sheets | |
| 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) |





Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SJ-28-SS

Total Carbonate Mass: 2.106 grams

% Carbonate: 1.6 %

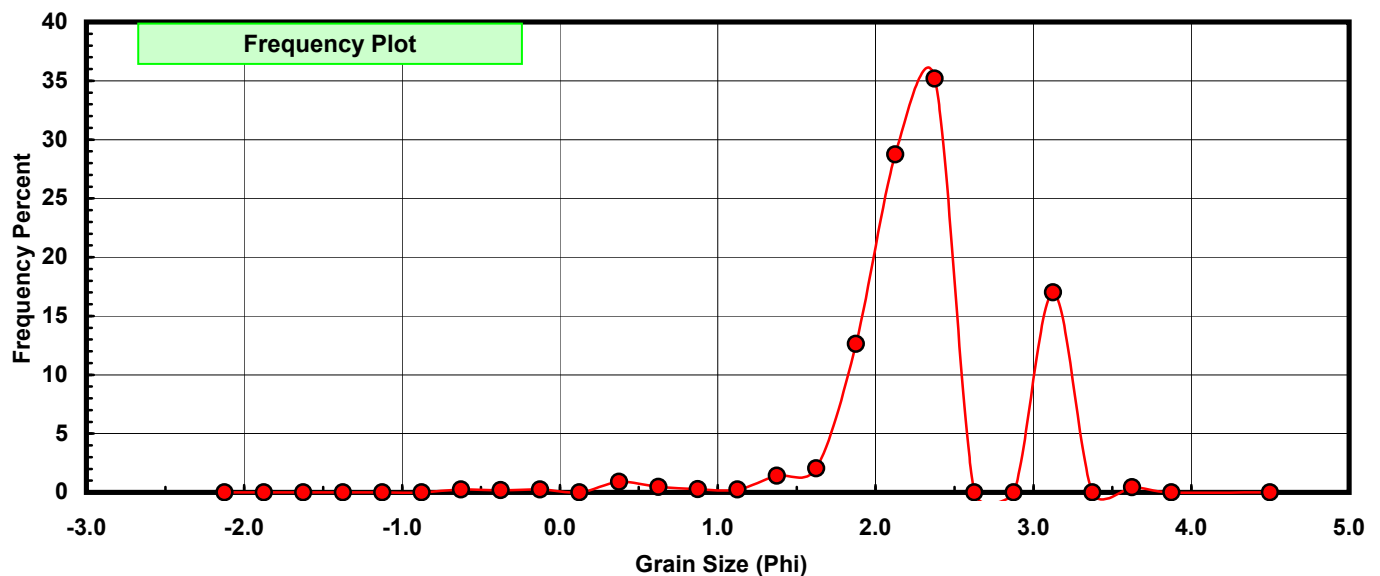
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.00 | -2.125 | 0.000 | 0.000 | 0.000 |
| -1.75 | -1.875 | 0.000 | 0.000 | 0.000 |
| -1.50 | -1.625 | 0.000 | 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 | 0.005 | 0.237 | 0.237 |
| -0.25 | -0.375 | 0.004 | 0.190 | 0.427 |
| 0.00 | -0.125 | 0.005 | 0.237 | 0.665 |
| 0.25 | 0.125 | 0.000 | 0.000 | 0.665 |
| 0.50 | 0.375 | 0.019 | 0.902 | 1.567 |
| 0.75 | 0.625 | 0.010 | 0.475 | 2.042 |
| 1.00 | 0.875 | 0.006 | 0.285 | 2.327 |
| 1.25 | 1.125 | 0.005 | 0.237 | 2.564 |
| 1.50 | 1.375 | 0.030 | 1.425 | 3.989 |
| 1.75 | 1.625 | 0.043 | 2.042 | 6.030 |
| 2.00 | 1.875 | 0.266 | 12.631 | 18.661 |
| 2.25 | 2.125 | 0.605 | 28.727 | 47.388 |
| 2.50 | 2.375 | 0.741 | 35.185 | 82.574 |
| 2.75 | 2.625 | 0.000 | 0.000 | 82.574 |
| 3.00 | 2.875 | 0.000 | 0.000 | 82.574 |
| 3.25 | 3.125 | 0.358 | 16.999 | 99.573 |
| 3.50 | 3.375 | 0.000 | 0.000 | 99.573 |
| 3.75 | 3.625 | 0.009 | 0.427 | 100.000 |
| 4.00 | 3.875 | 0.000 | 0.000 | 100.000 |
| 5.00 | 4.500 | 0.000 | 0.000 | 100.000 |

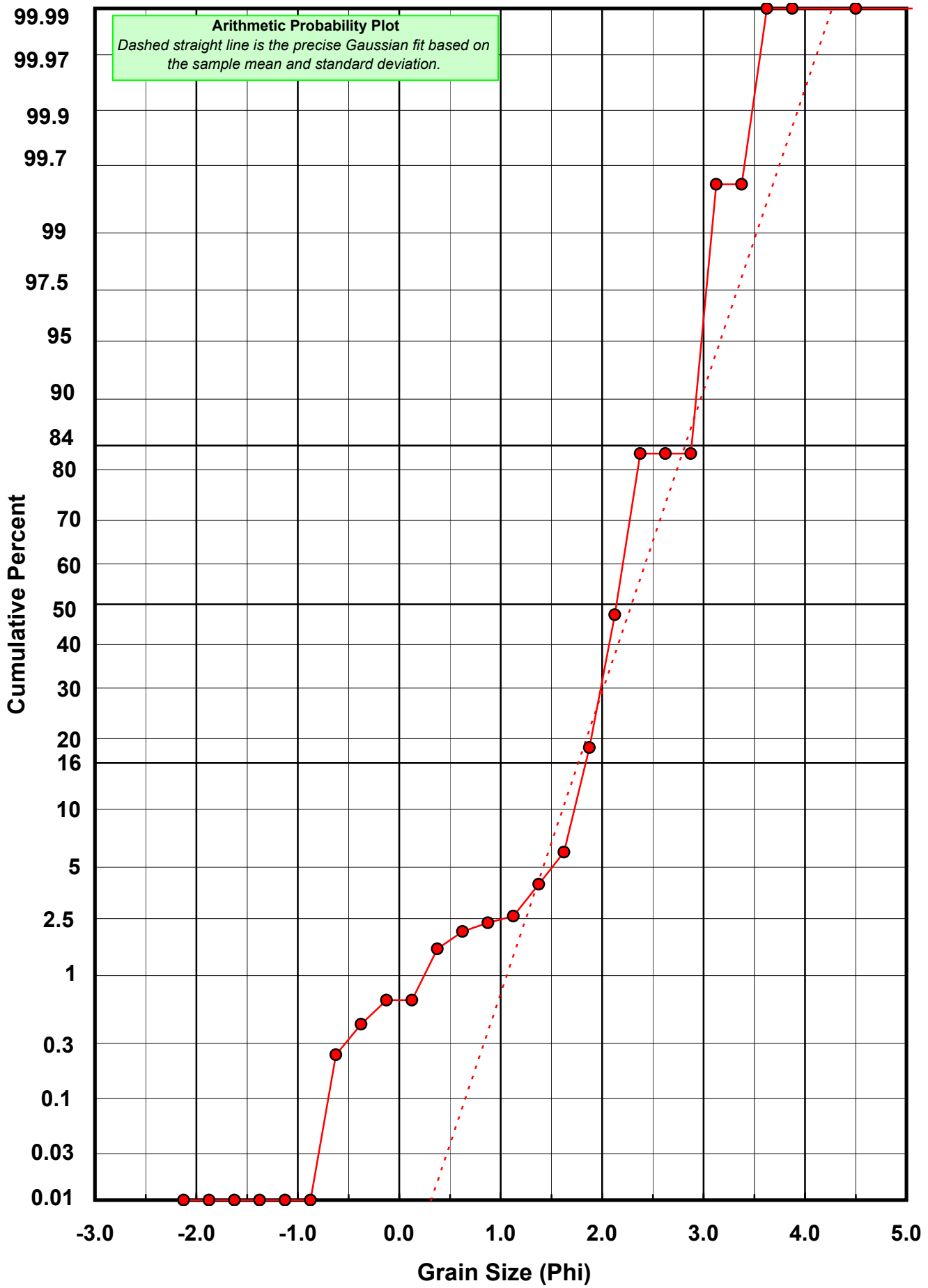
| Statistical Results | | | |
|---------------------|----------|---------------|-------------|
| Mean: | 2.2914 | phi | (0.2043 mm) |
| Standard Dev: | 0.5309 | phi-units | (0.6921 mm) |
| Skewness: | -0.9647 | dimensionless | |
| Kurtosis: | 8.0111 | dimensionless | |
| 5th Moment: | -28.3292 | dimensionless | |
| 6th Moment: | 146.6843 | dimensionless | |
| RARD * | 0.2317 | dimensionless | |
| Median | 2.1436 | phi | (0.2263 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 Calculation Sheets | |
| 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) |





Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-28-SS

Total Digested Mass: 71.316 grams

% Silica: 98.4 %

| 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 | 0.000 | 0.000 | 0.000 |
| 0.00 | -0.125 | 0.000 | 0.000 | 0.000 |
| 0.25 | 0.125 | 0.005 | 0.007 | 0.007 |
| 0.50 | 0.375 | 0.007 | 0.010 | 0.017 |
| 0.75 | 0.625 | 0.004 | 0.006 | 0.022 |
| 1.00 | 0.875 | 0.002 | 0.003 | 0.025 |
| 1.25 | 1.125 | 0.005 | 0.007 | 0.032 |
| 1.50 | 1.375 | 0.002 | 0.003 | 0.035 |
| 1.75 | 1.625 | 0.045 | 0.063 | 0.098 |
| 2.00 | 1.875 | 0.701 | 0.983 | 1.081 |
| 2.25 | 2.125 | 4.225 | 5.924 | 7.005 |
| 2.50 | 2.375 | 14.394 | 20.183 | 27.189 |
| 2.75 | 2.625 | 26.394 | 37.010 | 64.199 |
| 3.00 | 2.875 | 18.399 | 25.799 | 89.998 |
| 3.25 | 3.125 | 5.505 | 7.719 | 97.717 |
| 3.50 | 3.375 | 1.254 | 1.758 | 99.476 |
| 3.75 | 3.625 | 0.286 | 0.401 | 99.877 |
| 4.00 | 3.875 | 0.088 | 0.123 | 100.000 |
| 5.00 | 4.500 | 0.000 | 0.000 | 100.000 |

| Statistical Results | | | |
|---------------------|---------|---------------|-------------|
| Mean: | 2.6581 | phi | (0.1584 mm) |
| Standard Dev: | 0.2939 | phi-units | (0.8157 mm) |
| Skewness: | 0.0237 | dimensionless | |
| Kurtosis: | 4.4629 | dimensionless | |
| 5th Moment: | -5.1975 | dimensionless | |
| 6th Moment: | 83.8276 | dimensionless | |
| RARD * | 0.1106 | dimensionless | |
| Median | 2.5291 | phi | (0.1732 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 Calculation Sheets | |
| Millimeter data calculated by $mm = 2^{(-phi)}$ | |

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