

Onshore Grab Sample

Sample: FG-17-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Flagler
Latitude: 29° 27' 55.4"
Longitude: 81° 07' 10.7"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 123.246 grams
Total Fines in Sample 1.135 grams
Total Percent Fines 0.91 %

Dry Sieving Summary

Total Sample Weight 121.644 grams
Total Digested Weight 84.665 grams
Total Carbonate Weight 36.979 grams
Total Silica % 69.60 %
Total Carbonate % 30.40 %
Carbonate/Silica Ratio 0.437

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-17-SS

Total Sample Mass: 121.644 grams

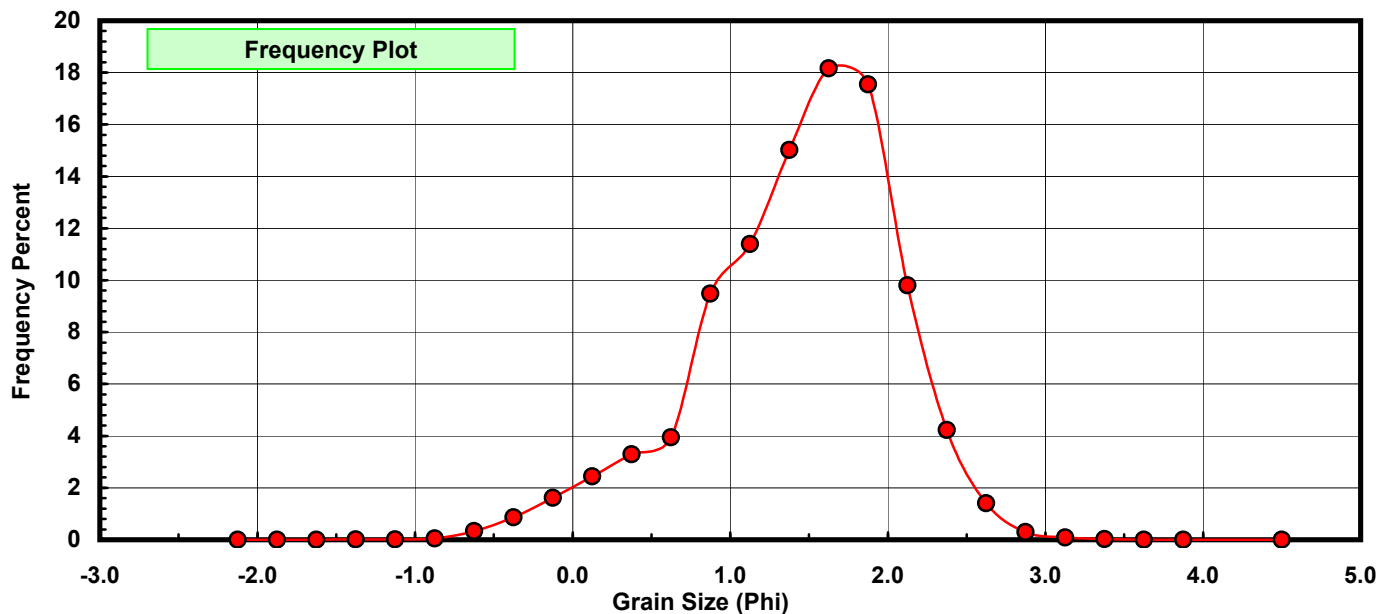
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.00 | -2.125 | 0.000 | 0.000 | 0.000 |
| -1.75 | -1.875 | 0.000 | 0.000 | 0.000 |
| -1.50 | -1.625 | 0.000 | 0.000 | 0.000 |
| -1.25 | -1.375 | 0.017 | 0.014 | 0.014 |
| -1.00 | -1.125 | 0.009 | 0.007 | 0.021 |
| -0.75 | -0.875 | 0.061 | 0.050 | 0.072 |
| -0.50 | -0.625 | 0.398 | 0.327 | 0.399 |
| -0.25 | -0.375 | 1.047 | 0.861 | 1.259 |
| 0.00 | -0.125 | 1.970 | 1.619 | 2.879 |
| 0.25 | 0.125 | 2.970 | 2.442 | 5.320 |
| 0.50 | 0.375 | 3.998 | 3.287 | 8.607 |
| 0.75 | 0.625 | 4.806 | 3.951 | 12.558 |
| 1.00 | 0.875 | 11.528 | 9.477 | 22.035 |
| 1.25 | 1.125 | 13.866 | 11.399 | 33.434 |
| 1.50 | 1.375 | 18.269 | 15.018 | 48.452 |
| 1.75 | 1.625 | 22.096 | 18.164 | 66.617 |
| 2.00 | 1.875 | 21.350 | 17.551 | 84.168 |
| 2.25 | 2.125 | 11.922 | 9.801 | 93.968 |
| 2.50 | 2.375 | 5.139 | 4.225 | 98.193 |
| 2.75 | 2.625 | 1.708 | 1.404 | 99.597 |
| 3.00 | 2.875 | 0.361 | 0.297 | 99.894 |
| 3.25 | 3.125 | 0.099 | 0.081 | 99.975 |
| 3.50 | 3.375 | 0.025 | 0.021 | 99.996 |
| 3.75 | 3.625 | 0.003 | 0.002 | 99.998 |
| 4.00 | 3.875 | 0.002 | 0.002 | 100.000 |
| 5.00 | 4.500 | 0.000 | 0.000 | 100.000 |

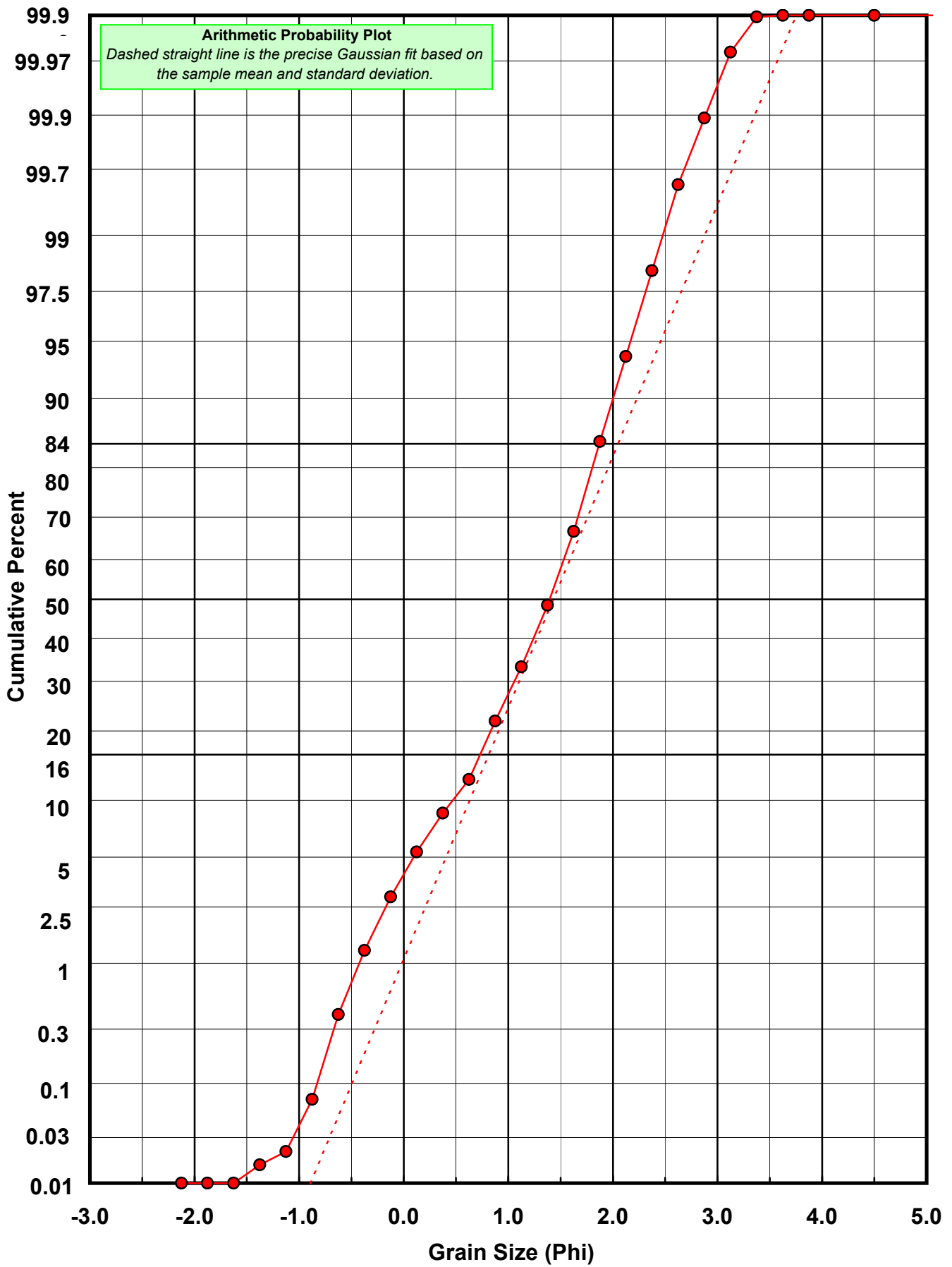
| Statistical Results | | | |
|---------------------|---------|---------------|-------------|
| Mean: | 1.4314 | phi | (0.3708 mm) |
| Standard Dev: | 0.6235 | phi-units | (0.6491 mm) |
| Skewness: | -0.6680 | dimensionless | |
| Kurtosis: | 3.5049 | dimensionless | |
| 5th Moment: | -5.6812 | dimensionless | |
| 6th Moment: | 21.7535 | dimensionless | |
| RARD * | 0.4356 | dimensionless | |
| Median | 1.3963 | phi | (0.3799 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: FG-17-SS

Total Carbonate Mass: 36.981 grams

% Carbonate: 30.4 %

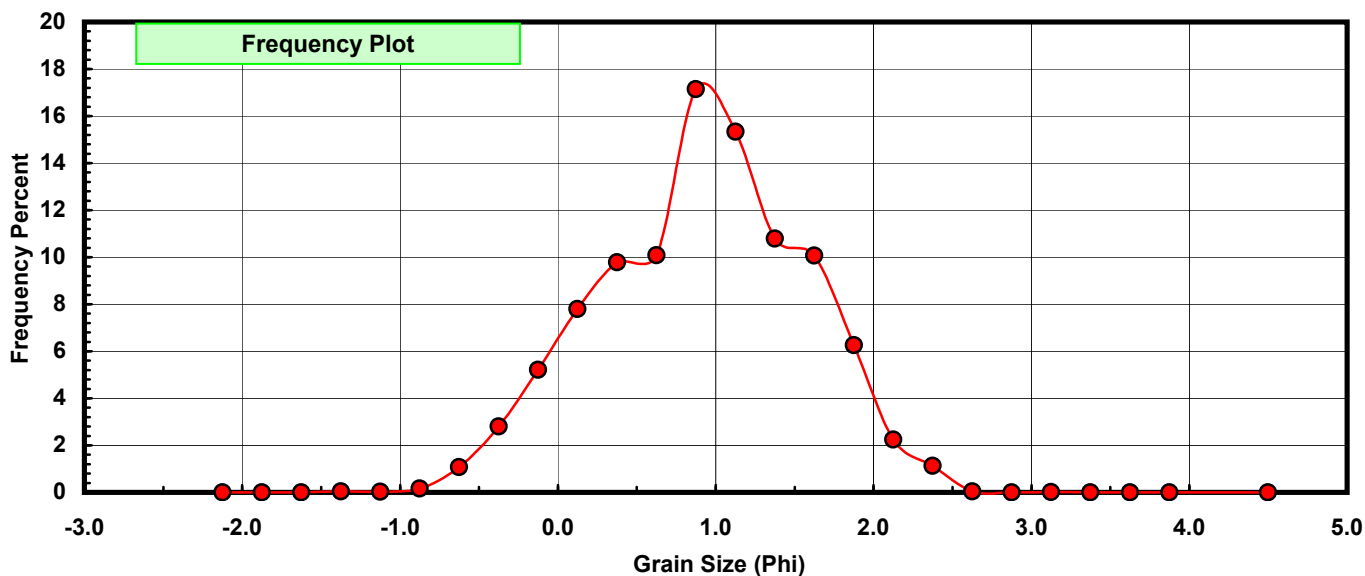
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.00 | -2.125 | 0.000 | 0.000 | 0.000 |
| -1.75 | -1.875 | 0.000 | 0.000 | 0.000 |
| -1.50 | -1.625 | 0.000 | 0.000 | 0.000 |
| -1.25 | -1.375 | 0.017 | 0.046 | 0.046 |
| -1.00 | -1.125 | 0.009 | 0.024 | 0.070 |
| -0.75 | -0.875 | 0.061 | 0.165 | 0.235 |
| -0.50 | -0.625 | 0.395 | 1.068 | 1.303 |
| -0.25 | -0.375 | 1.037 | 2.804 | 4.108 |
| 0.00 | -0.125 | 1.929 | 5.216 | 9.324 |
| 0.25 | 0.125 | 2.882 | 7.793 | 17.117 |
| 0.50 | 0.375 | 3.618 | 9.783 | 26.900 |
| 0.75 | 0.625 | 3.728 | 10.081 | 36.981 |
| 1.00 | 0.875 | 6.338 | 17.139 | 54.120 |
| 1.25 | 1.125 | 5.668 | 15.327 | 69.446 |
| 1.50 | 1.375 | 3.990 | 10.789 | 80.236 |
| 1.75 | 1.625 | 3.723 | 10.067 | 90.303 |
| 2.00 | 1.875 | 2.315 | 6.260 | 96.563 |
| 2.25 | 2.125 | 0.829 | 2.242 | 98.805 |
| 2.50 | 2.375 | 0.416 | 1.125 | 99.930 |
| 2.75 | 2.625 | 0.017 | 0.046 | 99.976 |
| 3.00 | 2.875 | 0.000 | 0.000 | 99.976 |
| 3.25 | 3.125 | 0.007 | 0.019 | 99.995 |
| 3.50 | 3.375 | 0.000 | 0.000 | 99.995 |
| 3.75 | 3.625 | 0.000 | 0.000 | 99.995 |
| 4.00 | 3.875 | 0.002 | 0.005 | 100.000 |
| 5.00 | 4.500 | 0.000 | 0.000 | 100.000 |

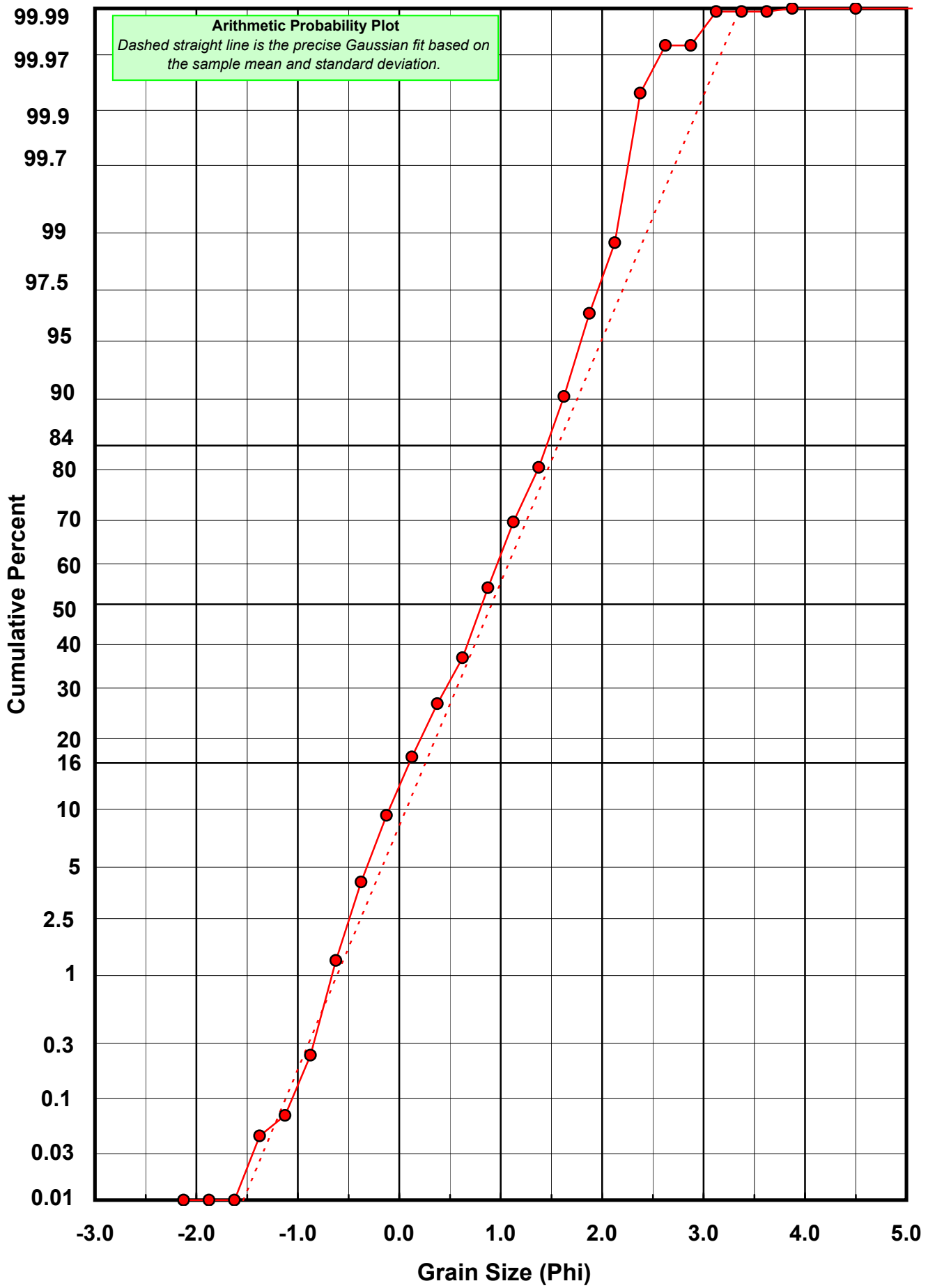
| Statistical Results | | | |
|---------------------|---------|---------------|-------------|
| Mean: | 0.9114 | phi | (0.5317 mm) |
| Standard Dev: | 0.6575 | phi-units | (0.634 mm) |
| Skewness: | -0.1553 | dimensionless | |
| Kurtosis: | 2.5681 | dimensionless | |
| 5th Moment: | -0.9297 | dimensionless | |
| 6th Moment: | 10.2663 | dimensionless | |
| RARD * | 0.7214 | dimensionless | |
| Median | 0.8149 | phi | (0.5684 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: FG-17-SS

Total Digested Mass: 84.665 grams

% Silica: 69.6 %

| 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 | 0.003 | 0.004 | 0.004 |
| -0.25 | -0.375 | 0.010 | 0.012 | 0.015 |
| 0.00 | -0.125 | 0.041 | 0.048 | 0.064 |
| 0.25 | 0.125 | 0.088 | 0.104 | 0.168 |
| 0.50 | 0.375 | 0.380 | 0.449 | 0.617 |
| 0.75 | 0.625 | 1.078 | 1.273 | 1.890 |
| 1.00 | 0.875 | 5.190 | 6.130 | 8.020 |
| 1.25 | 1.125 | 8.198 | 9.683 | 17.703 |
| 1.50 | 1.375 | 14.279 | 16.865 | 34.568 |
| 1.75 | 1.625 | 18.373 | 21.701 | 56.269 |
| 2.00 | 1.875 | 19.035 | 22.483 | 78.752 |
| 2.25 | 2.125 | 11.093 | 13.102 | 91.854 |
| 2.50 | 2.375 | 4.723 | 5.578 | 97.432 |
| 2.75 | 2.625 | 1.691 | 1.997 | 99.430 |
| 3.00 | 2.875 | 0.361 | 0.426 | 99.856 |
| 3.25 | 3.125 | 0.092 | 0.109 | 99.965 |
| 3.50 | 3.375 | 0.026 | 0.031 | 99.995 |
| 3.75 | 3.625 | 0.004 | 0.005 | 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: | 1.6585 | phi | (0.3168 mm) |
| Standard Dev: | 0.4507 | phi-units | (0.7317 mm) |
| Skewness: | -0.1365 | dimensionless | |
| Kurtosis: | 3.1625 | dimensionless | |
| 5th Moment: | -1.1987 | dimensionless | |
| 6th Moment: | 18.7138 | dimensionless | |
| RARD * | 0.2717 | dimensionless | |
| Median | 1.5528 | phi | (0.3409 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) |
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