

Onshore Grab Sample

Sample: GA-01-BB
Sample Taken By: J. Ladner
Sample Collected On: 1/28/03
Splits? N/A

County: Camden
Latitude: 30° 42' 57.3"
Longitude: 81° 26' 54.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 59.595 grams
Total Fines in Sample 0.107 grams
Total Percent Fines 0.18 %

Dry Sieving Summary

Total Sample Weight 59.431 grams
Total Digested Weight 58.132 grams
Total Carbonate Weight 1.299 grams
Total Silica % 97.81 %
Total Carbonate % 2.19 %
Carbonate/Silica Ratio 0.022

General Comments:

None

Description

Worked By: C. Fischler
Reviewed and Edited By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: GA-01-BB

Total Sample Mass: 59.431 grams

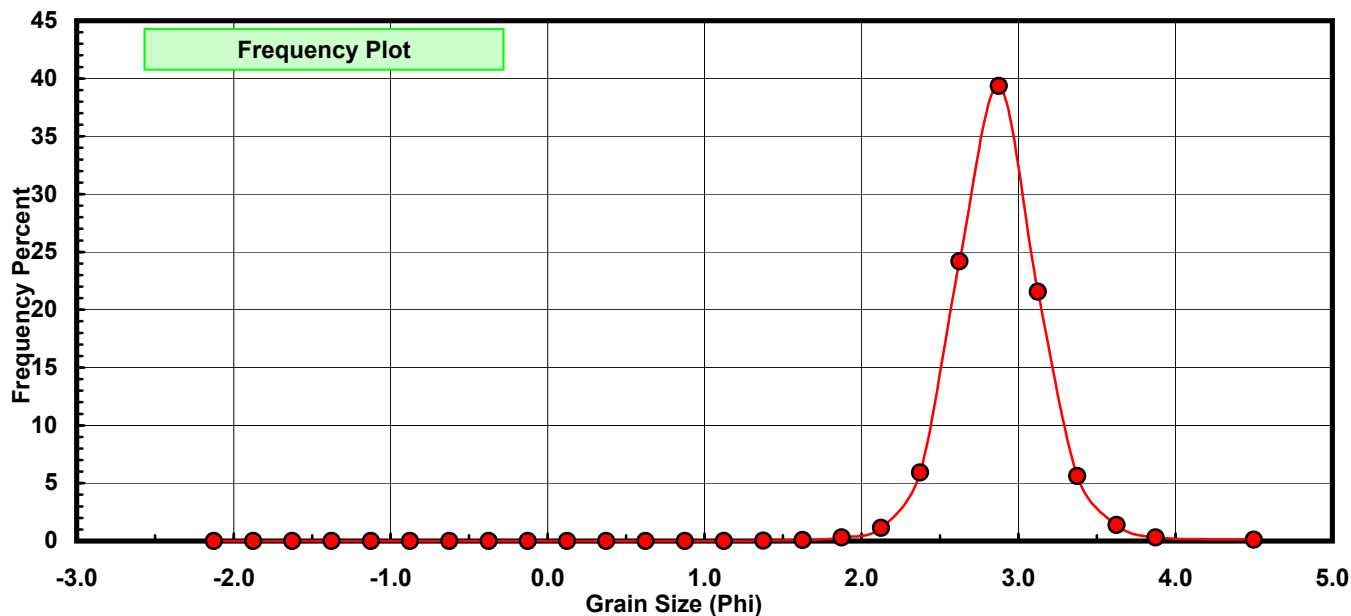
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.00 | -2.125 | 0.000 | 0.000 | 0.000 |
| -1.75 | -1.875 | 0.000 | 0.000 | 0.000 |
| -1.50 | -1.625 | 0.000 | 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 | 0.000 | 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 | 0.000 | 0.000 | 0.000 |
| 0.75 | 0.625 | 0.005 | 0.008 | 0.008 |
| 1.00 | 0.875 | 0.004 | 0.007 | 0.015 |
| 1.25 | 1.125 | 0.008 | 0.013 | 0.029 |
| 1.50 | 1.375 | 0.017 | 0.029 | 0.057 |
| 1.75 | 1.625 | 0.049 | 0.082 | 0.140 |
| 2.00 | 1.875 | 0.186 | 0.313 | 0.453 |
| 2.25 | 2.125 | 0.674 | 1.134 | 1.587 |
| 2.50 | 2.375 | 3.521 | 5.925 | 7.511 |
| 2.75 | 2.625 | 14.372 | 24.183 | 31.694 |
| 3.00 | 2.875 | 23.381 | 39.341 | 71.035 |
| 3.25 | 3.125 | 12.805 | 21.546 | 92.581 |
| 3.50 | 3.375 | 3.338 | 5.617 | 98.198 |
| 3.75 | 3.625 | 0.822 | 1.383 | 99.581 |
| 4.00 | 3.875 | 0.184 | 0.310 | 99.891 |
| 5.00 | 4.500 | 0.065 | 0.109 | 100.000 |

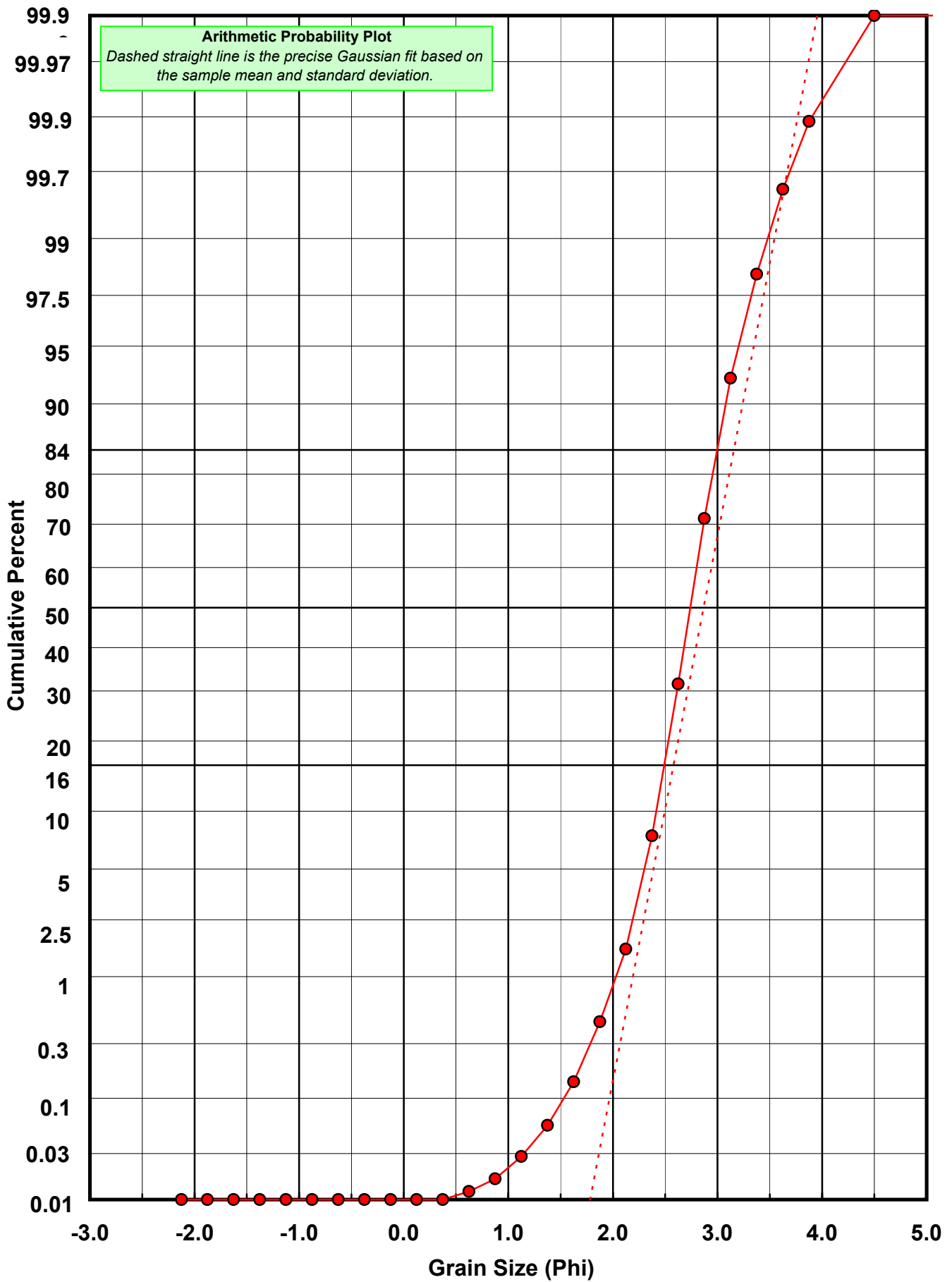
| Statistical Results | | | |
|---------------------|---------|---------------|-------------|
| Mean: | 2.8685 | phi | (0.1369 mm) |
| Standard Dev: | 0.2918 | phi-units | (0.8169 mm) |
| Skewness: | 0.0721 | dimensionless | |
| Kurtosis: | 5.4444 | dimensionless | |
| 5th Moment: | 0.0929 | dimensionless | |
| 6th Moment: | 95.9894 | dimensionless | |
| RARD * | 0.1017 | dimensionless | |
| Median | 2.7413 | phi | (0.1495 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: GA-01-BB

Total Carbonate Mass: 1.777 grams

% Carbonate: 2.2 %

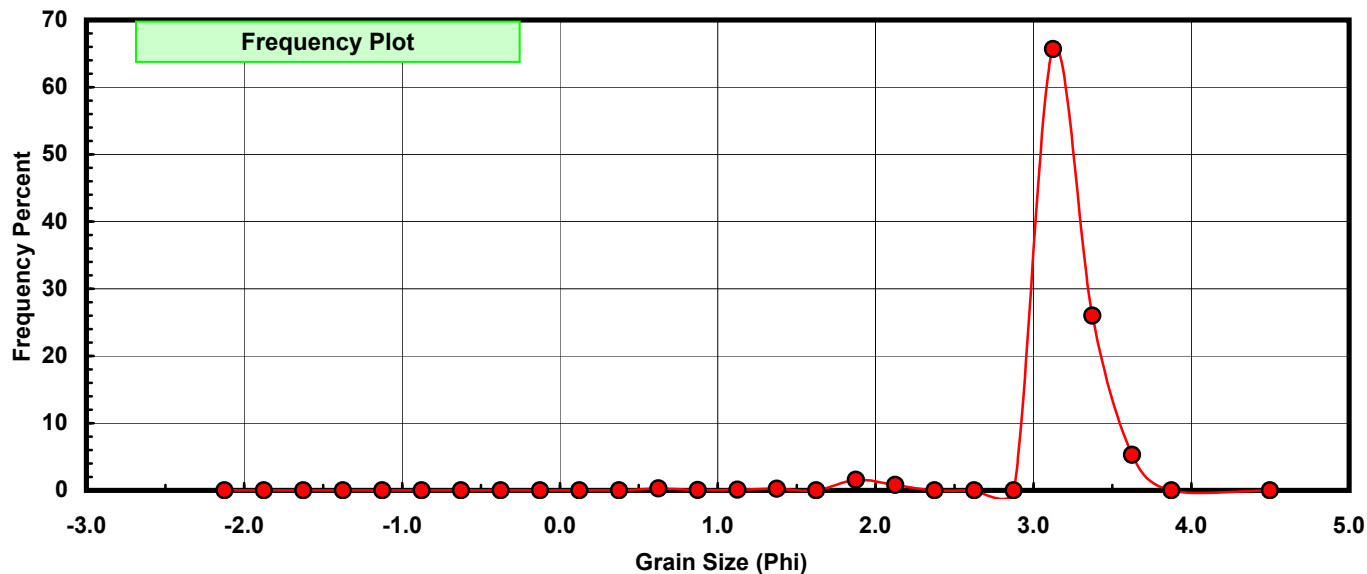
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.00 | -2.125 | 0.000 | 0.000 | 0.000 |
| -1.75 | -1.875 | 0.000 | 0.000 | 0.000 |
| -1.50 | -1.625 | 0.000 | 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 | 0.000 | 0.000 | 0.000 |
| 0.50 | 0.375 | 0.000 | 0.000 | 0.000 |
| 0.75 | 0.625 | 0.005 | 0.281 | 0.281 |
| 1.00 | 0.875 | 0.001 | 0.056 | 0.338 |
| 1.25 | 1.125 | 0.002 | 0.113 | 0.450 |
| 1.50 | 1.375 | 0.004 | 0.225 | 0.675 |
| 1.75 | 1.625 | 0.000 | 0.000 | 0.675 |
| 2.00 | 1.875 | 0.028 | 1.576 | 2.251 |
| 2.25 | 2.125 | 0.014 | 0.788 | 3.039 |
| 2.50 | 2.375 | 0.000 | 0.000 | 3.039 |
| 2.75 | 2.625 | 0.000 | 0.000 | 3.039 |
| 3.00 | 2.875 | 0.000 | 0.000 | 3.039 |
| 3.25 | 3.125 | 1.167 | 65.672 | 68.711 |
| 3.50 | 3.375 | 0.462 | 25.999 | 94.710 |
| 3.75 | 3.625 | 0.094 | 5.290 | 100.000 |
| 4.00 | 3.875 | 0.000 | 0.000 | 100.000 |
| 5.00 | 4.500 | 0.000 | 0.000 | 100.000 |

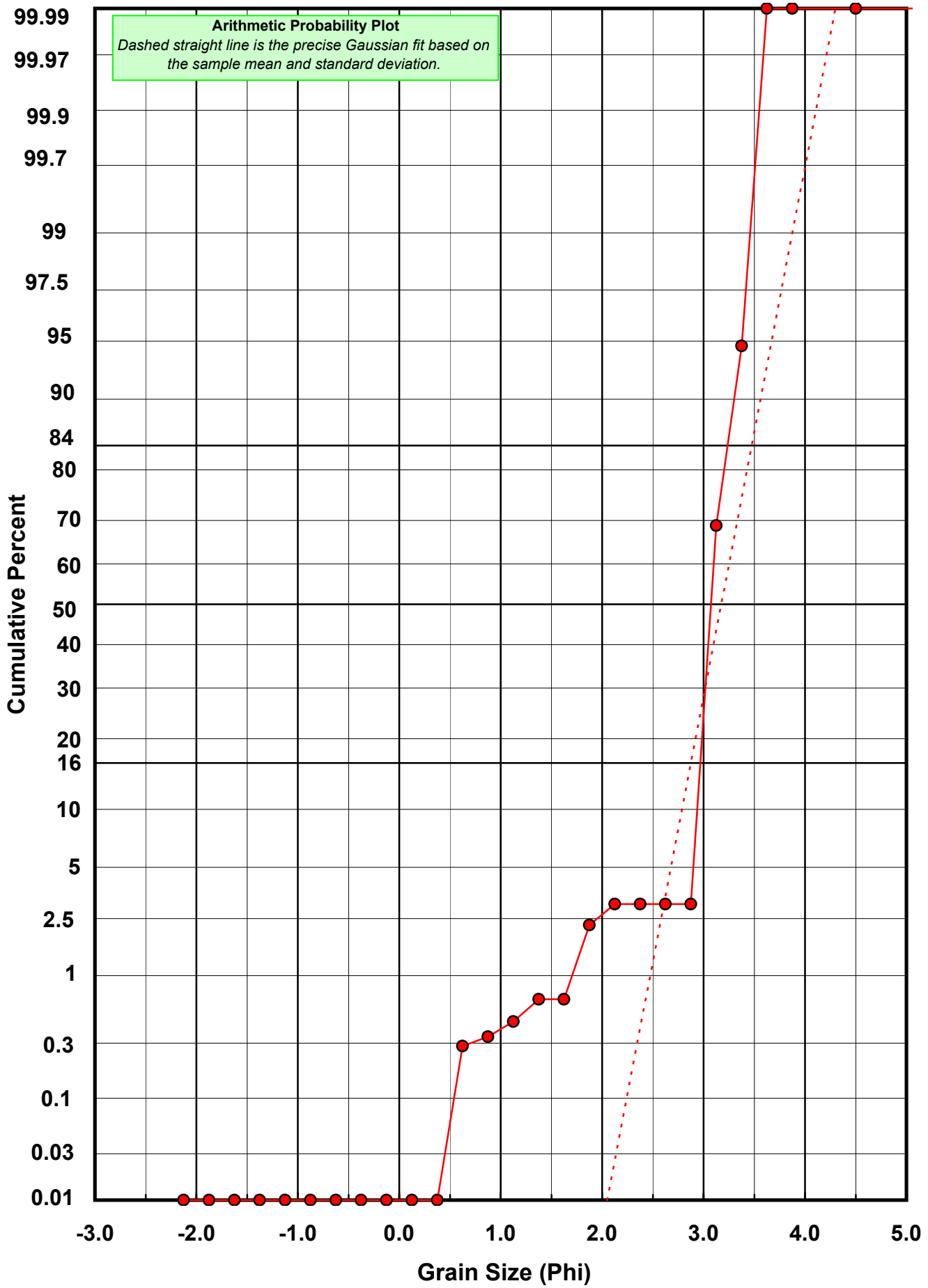
| Statistical Results | | | |
|---------------------|-----------|---------------|-------------|
| Mean: | 3.1744 | phi | (0.1108 mm) |
| Standard Dev: | 0.3023 | phi-units | (0.811 mm) |
| Skewness: | -4.0946 | dimensionless | |
| Kurtosis: | 28.1662 | dimensionless | |
| 5th Moment: | -194.0648 | dimensionless | |
| 6th Moment: | 1445.2949 | dimensionless | |
| RARD * | 0.0952 | dimensionless | |
| Median | 3.0538 | phi | (0.1204 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 | |
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| < 0.5 | Excellent homogeneity (e.g., beaches) |
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| 1.0 to 1.33 | Fair homogeneity |
| > 1.33 | Poor homogeneity (e.g., glacial) |





Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: GA-01-BB

Total Digested Mass: 58.076 grams

% Silica: 97.8 %

| 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 | 0.000 | 0.000 | 0.000 |
| 0.50 | 0.375 | 0.000 | 0.000 | 0.000 |
| 0.75 | 0.625 | 0.000 | 0.000 | 0.000 |
| 1.00 | 0.875 | 0.003 | 0.005 | 0.005 |
| 1.25 | 1.125 | 0.006 | 0.010 | 0.015 |
| 1.50 | 1.375 | 0.013 | 0.022 | 0.038 |
| 1.75 | 1.625 | 0.053 | 0.091 | 0.129 |
| 2.00 | 1.875 | 0.158 | 0.272 | 0.401 |
| 2.25 | 2.125 | 0.660 | 1.136 | 1.538 |
| 2.50 | 2.375 | 3.779 | 6.507 | 8.045 |
| 2.75 | 2.625 | 14.531 | 25.021 | 33.065 |
| 3.00 | 2.875 | 23.410 | 40.309 | 73.375 |
| 3.25 | 3.125 | 11.638 | 20.039 | 93.414 |
| 3.50 | 3.375 | 2.876 | 4.952 | 98.366 |
| 3.75 | 3.625 | 0.728 | 1.254 | 99.619 |
| 4.00 | 3.875 | 0.221 | 0.381 | 100.000 |
| 5.00 | 4.500 | 0.000 | 0.000 | 100.000 |

| Statistical Results | | | |
|---------------------|---------|---------------|-------------|
| Mean: | 2.8550 | phi | (0.1382 mm) |
| Standard Dev: | 0.2832 | phi-units | (0.8218 mm) |
| Skewness: | 0.0043 | dimensionless | |
| Kurtosis: | 4.4257 | dimensionless | |
| 5th Moment: | -2.3438 | dimensionless | |
| 6th Moment: | 47.9327 | dimensionless | |
| RARD * | 0.0992 | dimensionless | |
| Median | 2.7300 | phi | (0.1507 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 | |
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