

Onshore Grab Sample

Sample: BW-11-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/27/09
Splits? N/A

County: Broward
Latitude: 26° 10' 59.7"
Longitude: 80° 05' 45.0"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

| | |
|-----------------------|--------------|
| Total Sample Weight | 63.347 grams |
| Total Fines in Sample | 0.146 grams |
| Total Percent Fines | 0.23 % |

Dry Sieving Summary

| | |
|------------------------|--------------|
| Total Sample Weight | 63.310 grams |
| Total Digested Weight | 29.612 grams |
| Total Carbonate Weight | 33.698 grams |
| Total Silica % | 46.77 % |
| Total Carbonate % | 53.23 % |
| Carbonate/Silica Ratio | 1.138 |

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BW-11-BB

Total Sample Mass: 63.310 grams

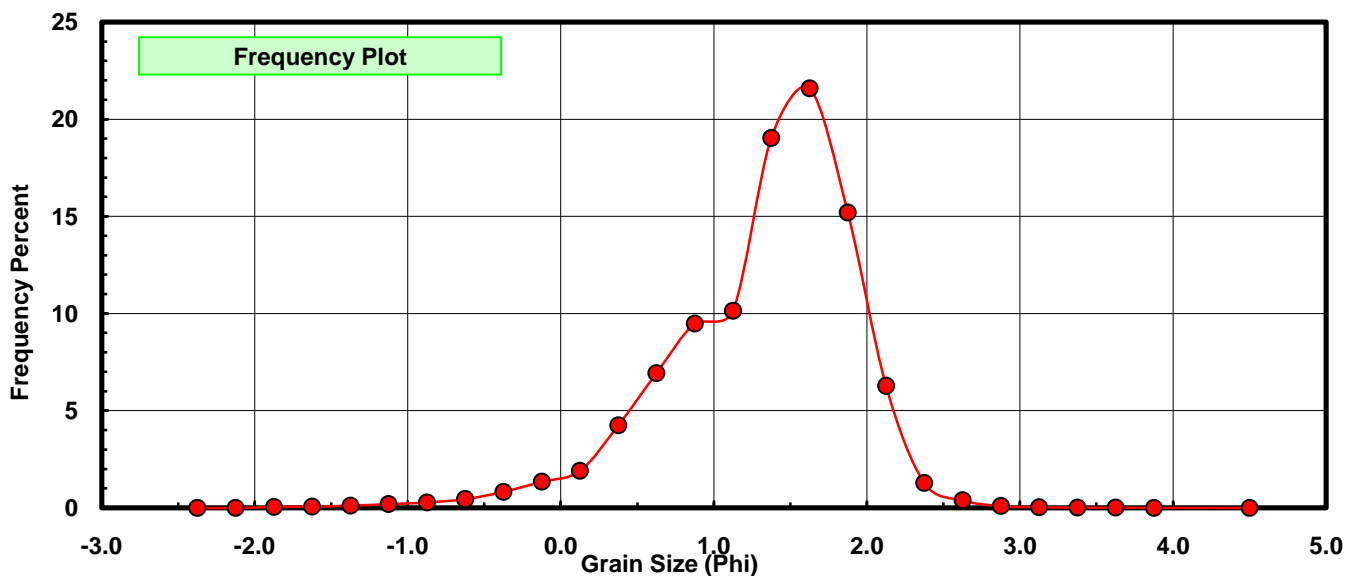
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.25 | -2.375 | 0.000 | 0.000 | 0.000 |
| -2.00 | -2.125 | 0.000 | 0.000 | 0.000 |
| -1.75 | -1.875 | 0.035 | 0.055 | 0.055 |
| -1.50 | -1.625 | 0.041 | 0.065 | 0.120 |
| -1.25 | -1.375 | 0.076 | 0.120 | 0.240 |
| -1.00 | -1.125 | 0.122 | 0.193 | 0.433 |
| -0.75 | -0.875 | 0.179 | 0.283 | 0.716 |
| -0.50 | -0.625 | 0.286 | 0.452 | 1.167 |
| -0.25 | -0.375 | 0.524 | 0.828 | 1.995 |
| 0.00 | -0.125 | 0.853 | 1.347 | 3.342 |
| 0.25 | 0.125 | 1.206 | 1.905 | 5.247 |
| 0.50 | 0.375 | 2.685 | 4.241 | 9.488 |
| 0.75 | 0.625 | 4.389 | 6.933 | 16.421 |
| 1.00 | 0.875 | 6.009 | 9.491 | 25.912 |
| 1.25 | 1.125 | 6.422 | 10.144 | 36.056 |
| 1.50 | 1.375 | 12.050 | 19.033 | 55.089 |
| 1.75 | 1.625 | 13.666 | 21.586 | 76.675 |
| 2.00 | 1.875 | 9.622 | 15.198 | 91.873 |
| 2.25 | 2.125 | 3.977 | 6.282 | 98.155 |
| 2.50 | 2.375 | 0.815 | 1.287 | 99.442 |
| 2.75 | 2.625 | 0.246 | 0.389 | 99.831 |
| 3.00 | 2.875 | 0.059 | 0.093 | 99.924 |
| 3.25 | 3.125 | 0.025 | 0.039 | 99.964 |
| 3.50 | 3.375 | 0.012 | 0.019 | 99.983 |
| 3.75 | 3.625 | 0.008 | 0.013 | 99.995 |
| 4.00 | 3.875 | 0.003 | 0.005 | 100.000 |
| 5.00 | 4.50 | 0.000 | 0.000 | 100.000 |

| Statistical Results | | | |
|---------------------|----------|---------------|-------------|
| Mean: | 1.3197 | phi | (0.4006 mm) |
| Standard Dev: | 0.6130 | phi-units | (0.6539 mm) |
| Skewness: | -1.0245 | dimensionless | |
| Kurtosis: | 4.8712 | dimensionless | |
| 5th Moment: | -13.2644 | dimensionless | |
| 6th Moment: | 57.2021 | dimensionless | |
| RARD * | 0.4645 | dimensionless | |
| Median | 1.3082 | phi | (0.4038 mm) |

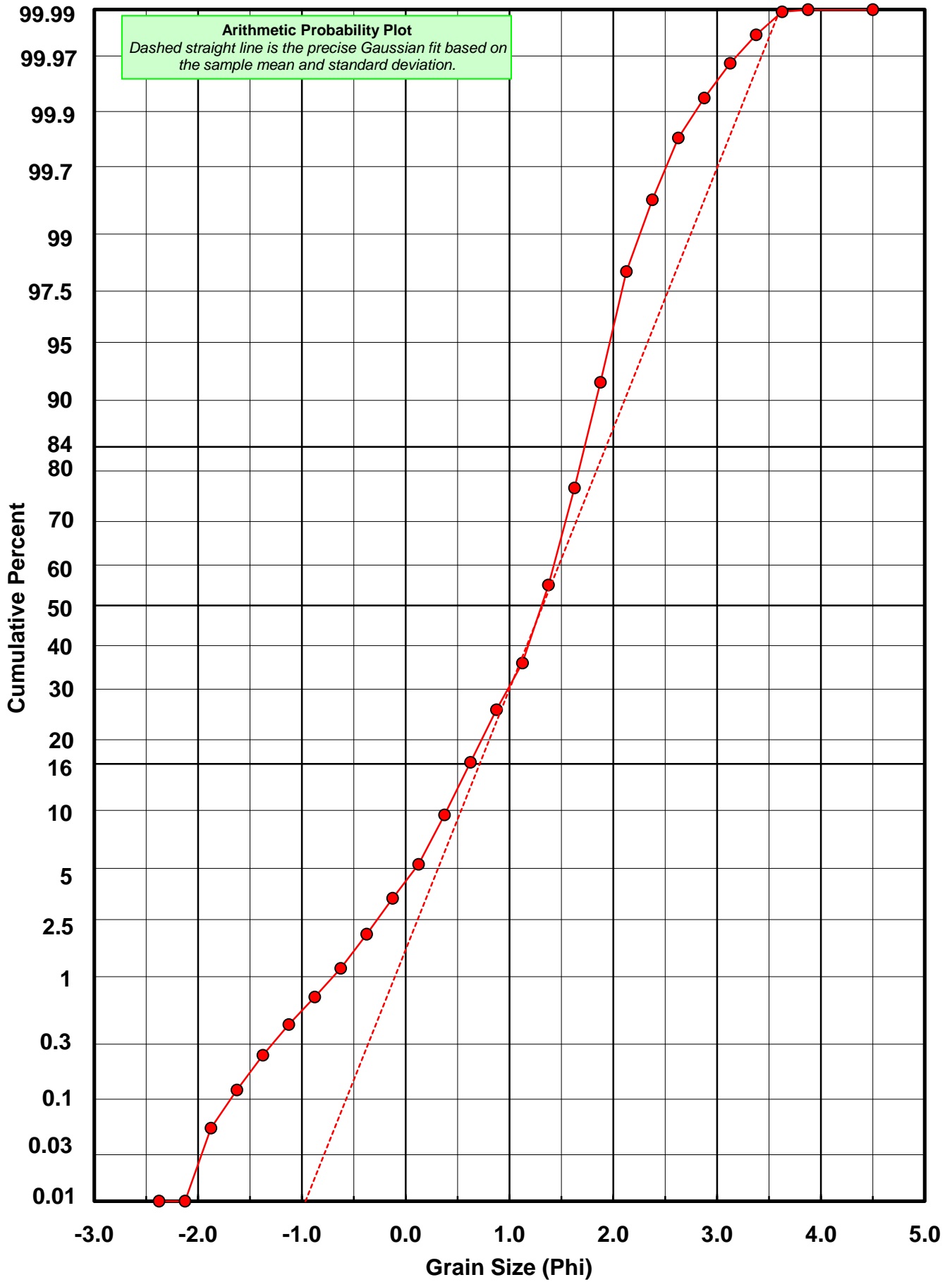
* RARD = reciprocal absolute relative dispersion (see below)

| 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) |



BW-11-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: BW-11-BB

Total Carbonate Mass: 33.712 grams

% Carbonate: 53.2 %

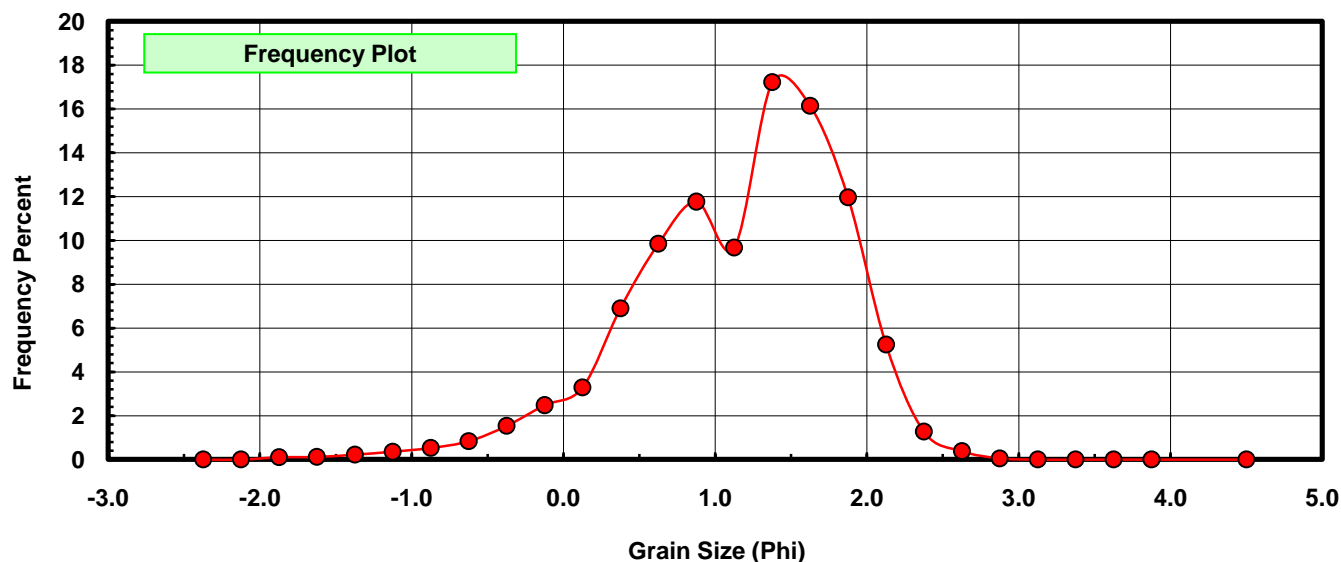
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.25 | -2.375 | 0.000 | 0.000 | 0.000 |
| -2.00 | -2.125 | 0.000 | 0.000 | 0.000 |
| -1.75 | -1.875 | 0.035 | 0.104 | 0.104 |
| -1.50 | -1.625 | 0.041 | 0.122 | 0.225 |
| -1.25 | -1.375 | 0.076 | 0.225 | 0.451 |
| -1.00 | -1.125 | 0.122 | 0.362 | 0.813 |
| -0.75 | -0.875 | 0.179 | 0.531 | 1.344 |
| -0.50 | -0.625 | 0.282 | 0.836 | 2.180 |
| -0.25 | -0.375 | 0.518 | 1.537 | 3.717 |
| 0.00 | -0.125 | 0.837 | 2.483 | 6.200 |
| 0.25 | 0.125 | 1.109 | 3.290 | 9.489 |
| 0.50 | 0.375 | 2.329 | 6.909 | 16.398 |
| 0.75 | 0.625 | 3.320 | 9.848 | 26.246 |
| 1.00 | 0.875 | 3.969 | 11.773 | 38.019 |
| 1.25 | 1.125 | 3.262 | 9.676 | 47.695 |
| 1.50 | 1.375 | 5.807 | 17.225 | 64.921 |
| 1.75 | 1.625 | 5.444 | 16.149 | 81.069 |
| 2.00 | 1.875 | 4.034 | 11.966 | 93.035 |
| 2.25 | 2.125 | 1.770 | 5.250 | 98.285 |
| 2.50 | 2.375 | 0.430 | 1.276 | 99.561 |
| 2.75 | 2.625 | 0.129 | 0.383 | 99.944 |
| 3.00 | 2.875 | 0.019 | 0.056 | 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: | 1.1508 | phi | (0.4504 mm) |
| Standard Dev: | 0.7000 | phi-units | (0.6156 mm) |
| Skewness: | -0.7922 | dimensionless | |
| Kurtosis: | 3.7766 | dimensionless | |
| 5th Moment: | -8.4182 | dimensionless | |
| 6th Moment: | 31.4279 | dimensionless | |
| RARD * | 0.6083 | dimensionless | |
| Median | 1.1585 | phi | (0.448 mm) |

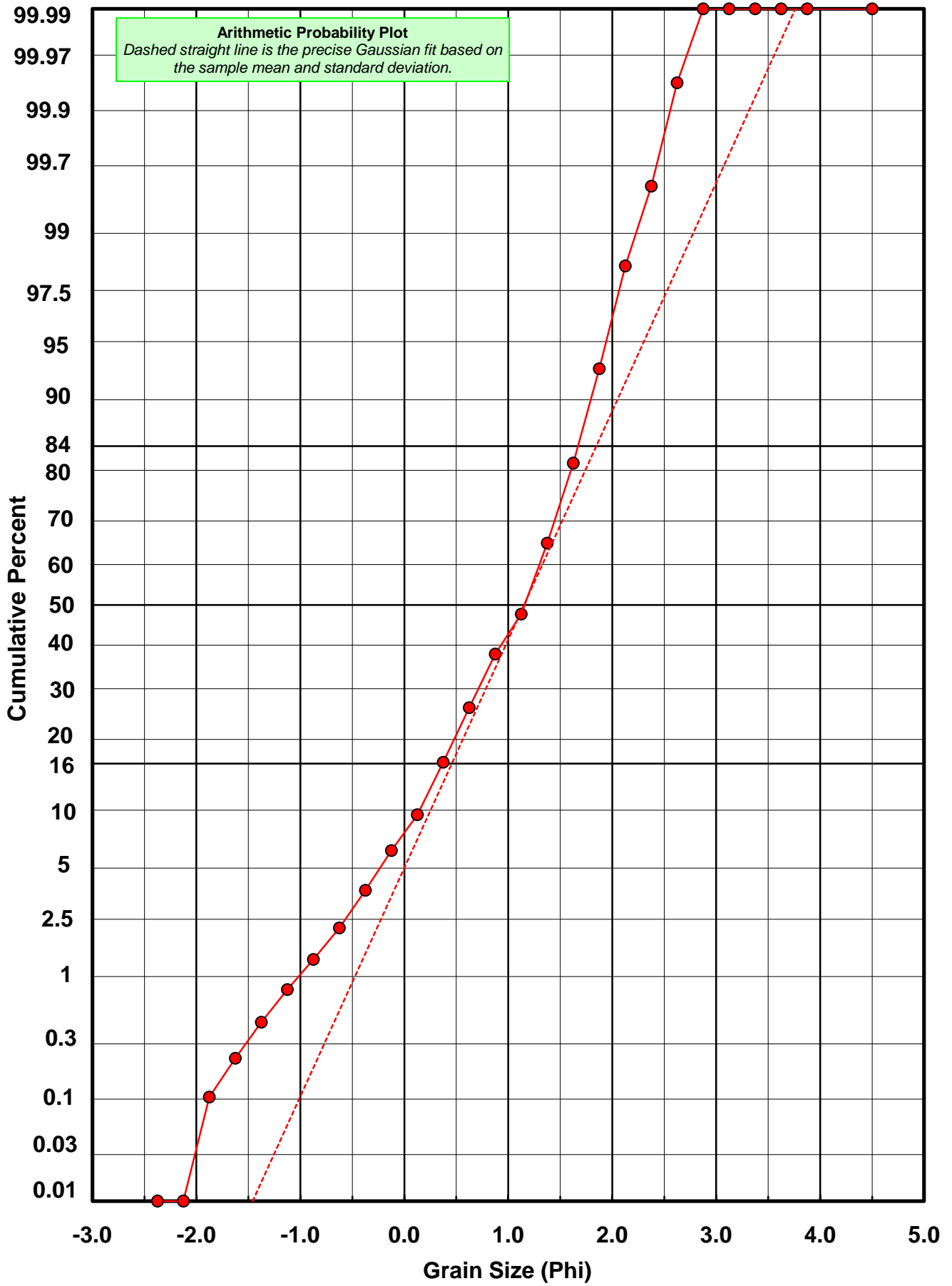
* RARD = reciprocal absolute relative dispersion (see below)

| 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 $mm = 2^{(-phi)}$ | |

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|--|---------------------------------------|
| < 0.5 | Excellent homogeneity (e.g., beaches) |
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| 1.0 to 1.33 | Fair homogeneity |
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BW-11-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BW-11-BB

Total Digested Mass: 29.612 grams

% Silica: 46.8 %

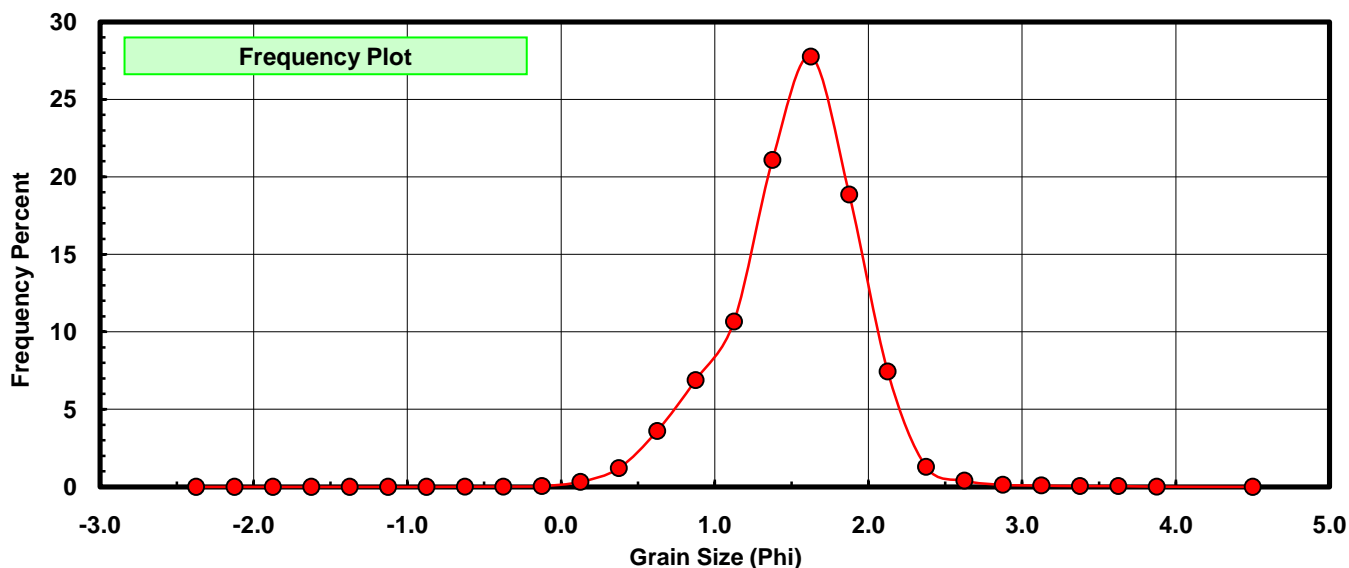
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.25 | -2.375 | 0.000 | 0.000 | 0.000 |
| -2.00 | -2.125 | 0.000 | 0.000 | 0.000 |
| -1.75 | -1.875 | 0.000 | 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 | 0.004 | 0.014 | 0.014 |
| -0.25 | -0.375 | 0.006 | 0.020 | 0.034 |
| 0.00 | -0.125 | 0.016 | 0.054 | 0.088 |
| 0.25 | 0.125 | 0.097 | 0.328 | 0.415 |
| 0.50 | 0.375 | 0.356 | 1.202 | 1.618 |
| 0.75 | 0.625 | 1.069 | 3.610 | 5.228 |
| 1.00 | 0.875 | 2.040 | 6.889 | 12.117 |
| 1.25 | 1.125 | 3.160 | 10.671 | 22.788 |
| 1.50 | 1.375 | 6.243 | 21.083 | 43.871 |
| 1.75 | 1.625 | 8.222 | 27.766 | 71.636 |
| 2.00 | 1.875 | 5.588 | 18.871 | 90.507 |
| 2.25 | 2.125 | 2.207 | 7.453 | 97.960 |
| 2.50 | 2.375 | 0.385 | 1.300 | 99.260 |
| 2.75 | 2.625 | 0.117 | 0.395 | 99.656 |
| 3.00 | 2.875 | 0.040 | 0.135 | 99.791 |
| 3.25 | 3.125 | 0.025 | 0.084 | 99.875 |
| 3.50 | 3.375 | 0.016 | 0.054 | 99.929 |
| 3.75 | 3.625 | 0.016 | 0.054 | 99.983 |
| 4.00 | 3.875 | 0.005 | 0.017 | 100.000 |
| 5.00 | 4.500 | 0.000 | 0.000 | 100.000 |

| Statistical Results | | | |
|---------------------|---------|---------------|-------------|
| Mean: | 1.5131 | phi | (0.3504 mm) |
| Standard Dev: | 0.4338 | phi-units | (0.7403 mm) |
| Skewness: | -0.2991 | dimensionless | |
| Kurtosis: | 4.0254 | dimensionless | |
| 5th Moment: | -0.1407 | dimensionless | |
| 6th Moment: | 38.0527 | dimensionless | |
| RARD * | 0.2867 | dimensionless | |
| Median | 1.4302 | phi | (0.3711 mm) |

* RARD = reciprocal absolute relative dispersion (see below)

| Statistical Explanation | |
|---|--|
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| Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0 | |
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