

**Onshore Grab Sample**

**Sample:** MT-02-BB  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 12/16/08  
**Splits?** N/A

**County:** Martin  
**Latitude:** 27° 14' 57.8"  
**Longitude:** 80° 11' 36.8"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 69.643 grams  
Total Fines in Sample 0.111 grams  
Total Percent Fines 0.16 %

**Dry Sieving Summary**

Total Sample Weight 69.521 grams  
Total Digested Weight 31.180 grams  
Total Carbonate Weight 38.341 grams  
Total Silica % 44.85 %  
Total Carbonate % 55.15 %  
Carbonate/Silica Ratio 1.230

**General Comments:**

None

**Description**

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MT-02-BB

Total Sample Mass: 69.521 grams

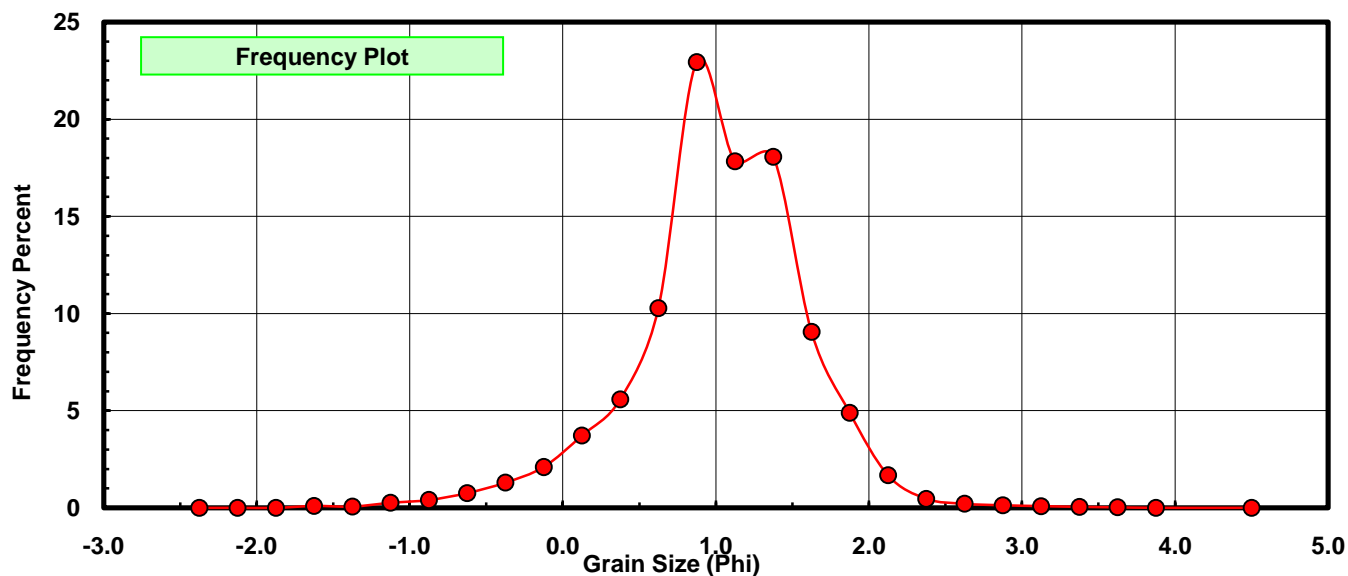
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.067	0.096	0.096
-1.25	-1.375	0.047	0.068	0.164
-1.00	-1.125	0.179	0.257	0.421
-0.75	-0.875	0.280	0.403	0.824
-0.50	-0.625	0.527	0.758	1.582
-0.25	-0.375	0.902	1.297	2.880
0.00	-0.125	1.459	2.099	4.978
0.25	0.125	2.584	3.717	8.695
0.50	0.375	3.878	5.578	14.273
0.75	0.625	7.148	10.282	24.555
1.00	0.875	15.951	22.944	47.499
1.25	1.125	12.399	17.835	65.334
1.50	1.375	12.563	18.071	83.405
1.75	1.625	6.294	9.053	92.458
2.00	1.875	3.399	4.889	97.348
2.25	2.125	1.164	1.674	99.022
2.50	2.375	0.324	0.466	99.488
2.75	2.625	0.146	0.210	99.698
3.00	2.875	0.092	0.132	99.830
3.25	3.125	0.062	0.089	99.919
3.50	3.375	0.036	0.052	99.971
3.75	3.625	0.018	0.026	99.997
4.00	3.875	0.001	0.001	99.999
5.00	4.50	0.001	0.001	100.000

Statistical Results			
Mean:	1.0189	phi	(0.4935 mm)
Standard Dev:	0.5747	phi-units	(0.6714 mm)
Skewness:	-0.5195	dimensionless	
Kurtosis:	4.7638	dimensionless	
5th Moment:	-6.0509	dimensionless	
6th Moment:	46.8214	dimensionless	
RARD *	0.5640	dimensionless	
Median	0.9101	phi	(0.5322 mm)

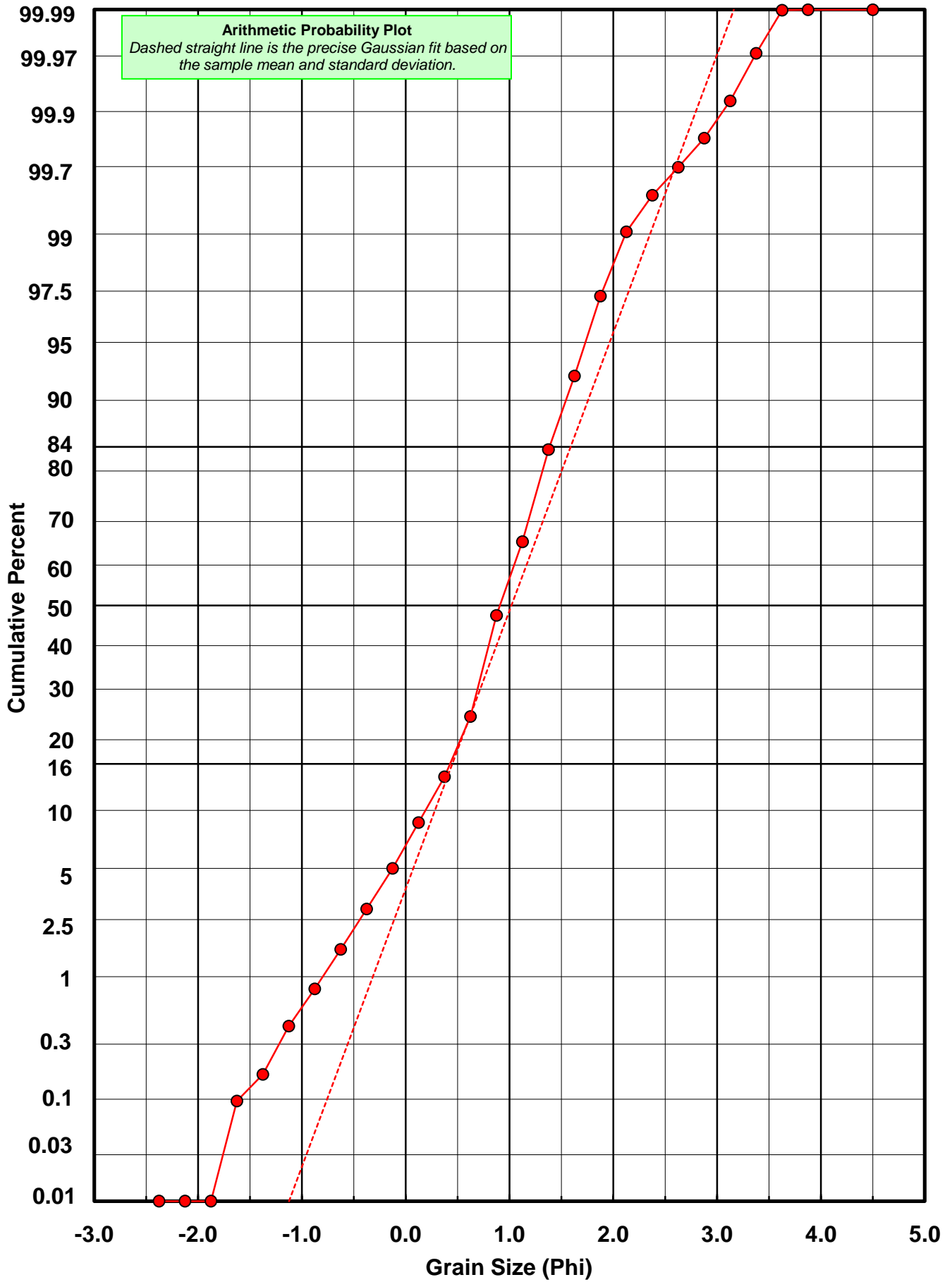
\* RARD = reciprocal absolute relative dispersion (see below)

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)



# MT-02-BB



# Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: MT-02-BB

Total Carbonate Mass: 38.450 grams

% Carbonate: 55.2 %

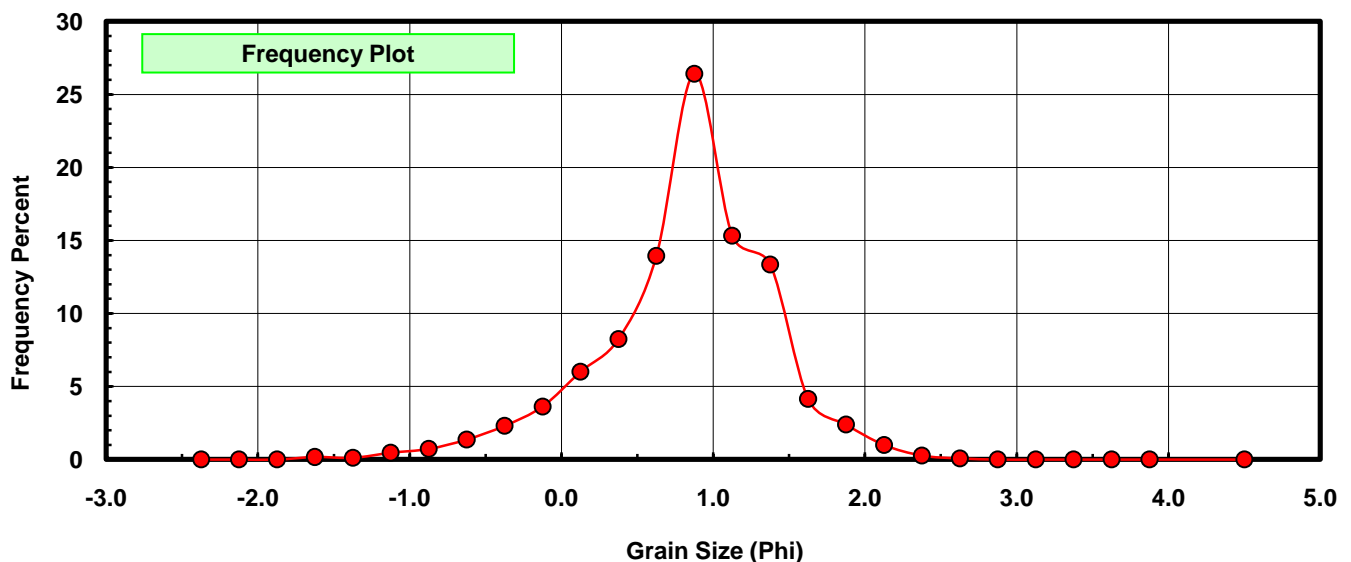
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.067	0.174	0.174
-1.25	-1.375	0.047	0.122	0.296
-1.00	-1.125	0.179	0.466	0.762
-0.75	-0.875	0.280	0.728	1.490
-0.50	-0.625	0.527	1.371	2.861
-0.25	-0.375	0.889	2.312	5.173
0.00	-0.125	1.396	3.631	8.804
0.25	0.125	2.310	6.008	14.811
0.50	0.375	3.172	8.250	23.061
0.75	0.625	5.362	13.945	37.007
1.00	0.875	10.157	26.416	63.423
1.25	1.125	5.892	15.324	78.746
1.50	1.375	5.136	13.358	92.104
1.75	1.625	1.594	4.146	96.250
2.00	1.875	0.922	2.398	98.648
2.25	2.125	0.385	1.001	99.649
2.50	2.375	0.105	0.273	99.922
2.75	2.625	0.030	0.078	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:	0.8170	phi	(0.5676 mm)
Standard Dev:	0.5869	phi-units	(0.6658 mm)
Skewness:	-0.6650	dimensionless	
Kurtosis:	4.1841	dimensionless	
5th Moment:	-7.2195	dimensionless	
6th Moment:	33.0035	dimensionless	
RARD *	0.7183	dimensionless	
Median	0.7480	phi	(0.5954 mm)

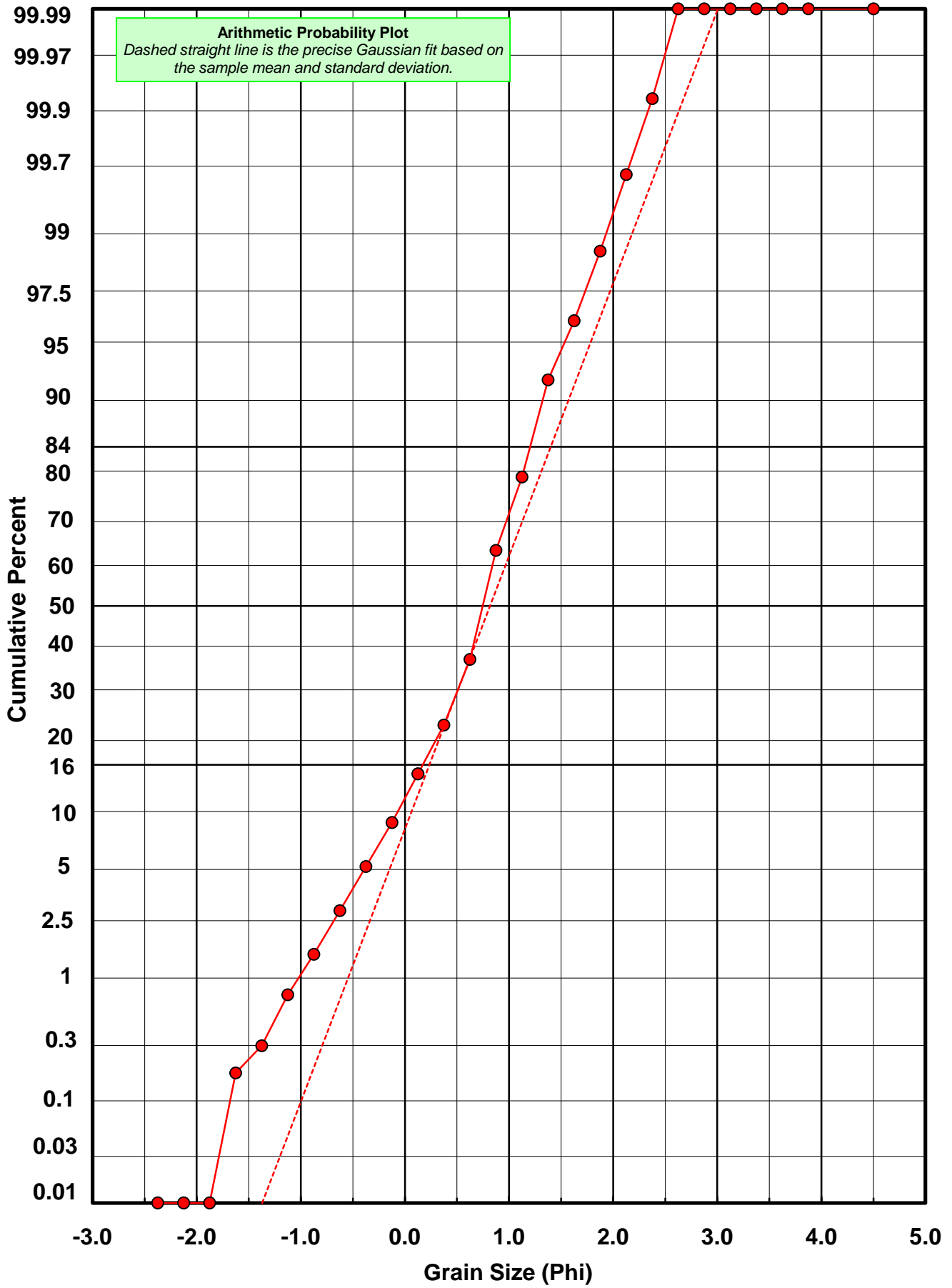
\* RARD = reciprocal absolute relative dispersion (see below)

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)



# MT-02-BB



# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MT-02-BB

Total Digested Mass: 31.180 grams

% Silica: 44.8 %

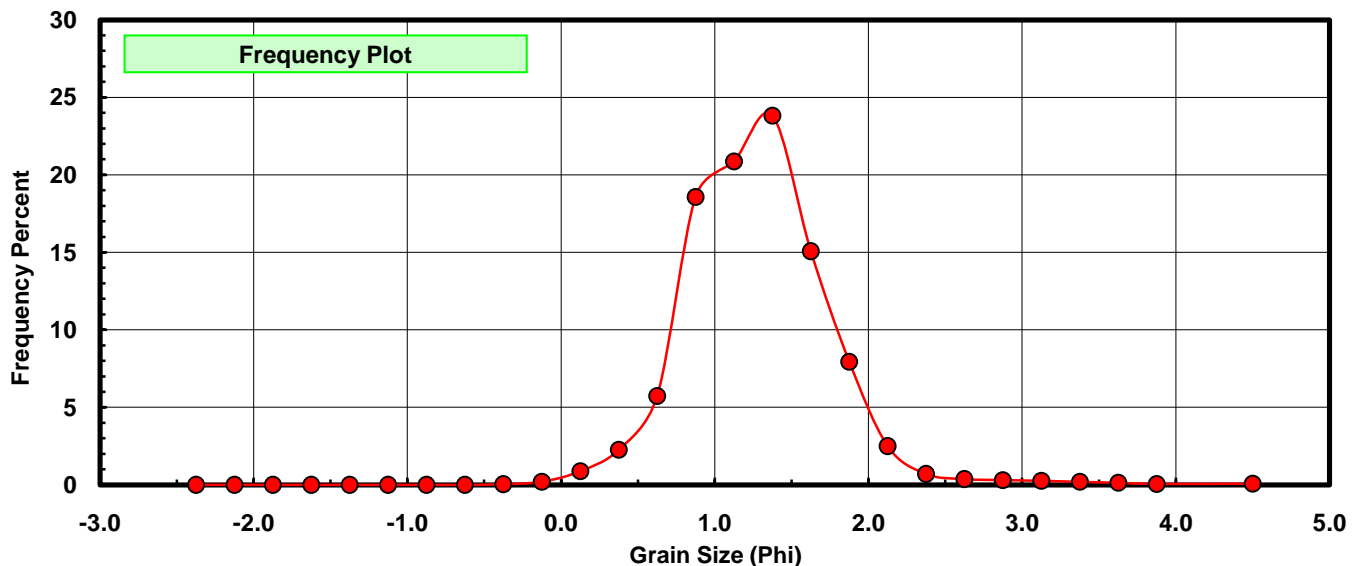
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.013	0.042	0.042
0.00	-0.125	0.063	0.202	0.244
0.25	0.125	0.274	0.879	1.123
0.50	0.375	0.706	2.264	3.387
0.75	0.625	1.786	5.728	9.115
1.00	0.875	5.794	18.582	27.697
1.25	1.125	6.507	20.869	48.566
1.50	1.375	7.427	23.820	72.386
1.75	1.625	4.700	15.074	87.460
2.00	1.875	2.477	7.944	95.404
2.25	2.125	0.779	2.498	97.903
2.50	2.375	0.219	0.702	98.605
2.75	2.625	0.116	0.372	98.977
3.00	2.875	0.095	0.305	99.282
3.25	3.125	0.081	0.260	99.541
3.50	3.375	0.060	0.192	99.734
3.75	3.625	0.041	0.131	99.865
4.00	3.875	0.019	0.061	99.926
5.00	4.500	0.023	0.074	100.000

Statistical Results			
Mean:	1.2771	phi	(0.4126 mm)
Standard Dev:	0.4775	phi-units	(0.7182 mm)
Skewness:	0.8535	dimensionless	
Kurtosis:	6.7417	dimensionless	
5th Moment:	24.0430	dimensionless	
6th Moment:	144.8650	dimensionless	
RARD *	0.3739	dimensionless	
Median	1.1400	phi	(0.4537 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)



# MT-02-BB

