

## **Onshore Grab Sample**

**Sample:** NA-09-MB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/4/02  
**Splits?** N/A

**County:** Nassau  
**Latitude:** 30° 35' 41.6"  
**Longitude:** 81° 26' 33.7"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

### **Fine Data Summary**

Total Sample Weight	54.29 grams
Total Fines in Sample	0.038 grams
Total Percent Fines	0.07 %

### **Dry Sieving Summary**

Total Sample Weight	54.171 grams
Total Digested Weight	51.173 grams
Total Carbonate Weight	2.998 grams
Total Silica %	94.47 %
Total Carbonate %	5.53 %
Carbonate/Silica Ratio	0.059

### **General Comments:**

None

### **Description**

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

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-09-MB

Total Sample Mass: 54.171 grams

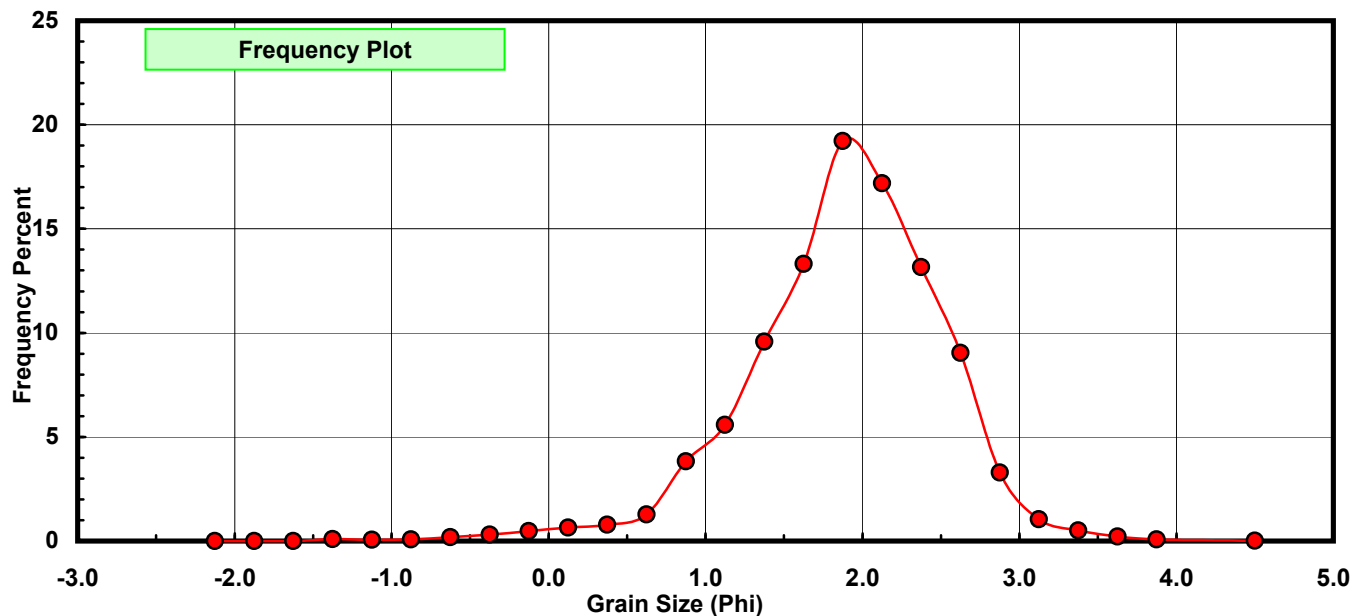
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.053	0.098	0.098
-1.00	-1.125	0.036	0.066	0.164
-0.75	-0.875	0.044	0.081	0.246
-0.50	-0.625	0.103	0.190	0.436
-0.25	-0.375	0.169	0.312	0.748
0.00	-0.125	0.260	0.480	1.228
0.25	0.125	0.349	0.644	1.872
0.50	0.375	0.427	0.788	2.660
0.75	0.625	0.692	1.277	3.938
1.00	0.875	2.074	3.829	7.766
1.25	1.125	3.020	5.575	13.341
1.50	1.375	5.188	9.577	22.918
1.75	1.625	7.212	13.313	36.232
2.00	1.875	10.409	19.215	55.447
2.25	2.125	9.313	17.192	72.638
2.50	2.375	7.128	13.158	85.797
2.75	2.625	4.901	9.047	94.844
3.00	2.875	1.780	3.286	98.130
3.25	3.125	0.565	1.043	99.173
3.50	3.375	0.279	0.515	99.688
3.75	3.625	0.119	0.220	99.908
4.00	3.875	0.045	0.083	99.991
5.00	4.500	0.005	0.009	100.000

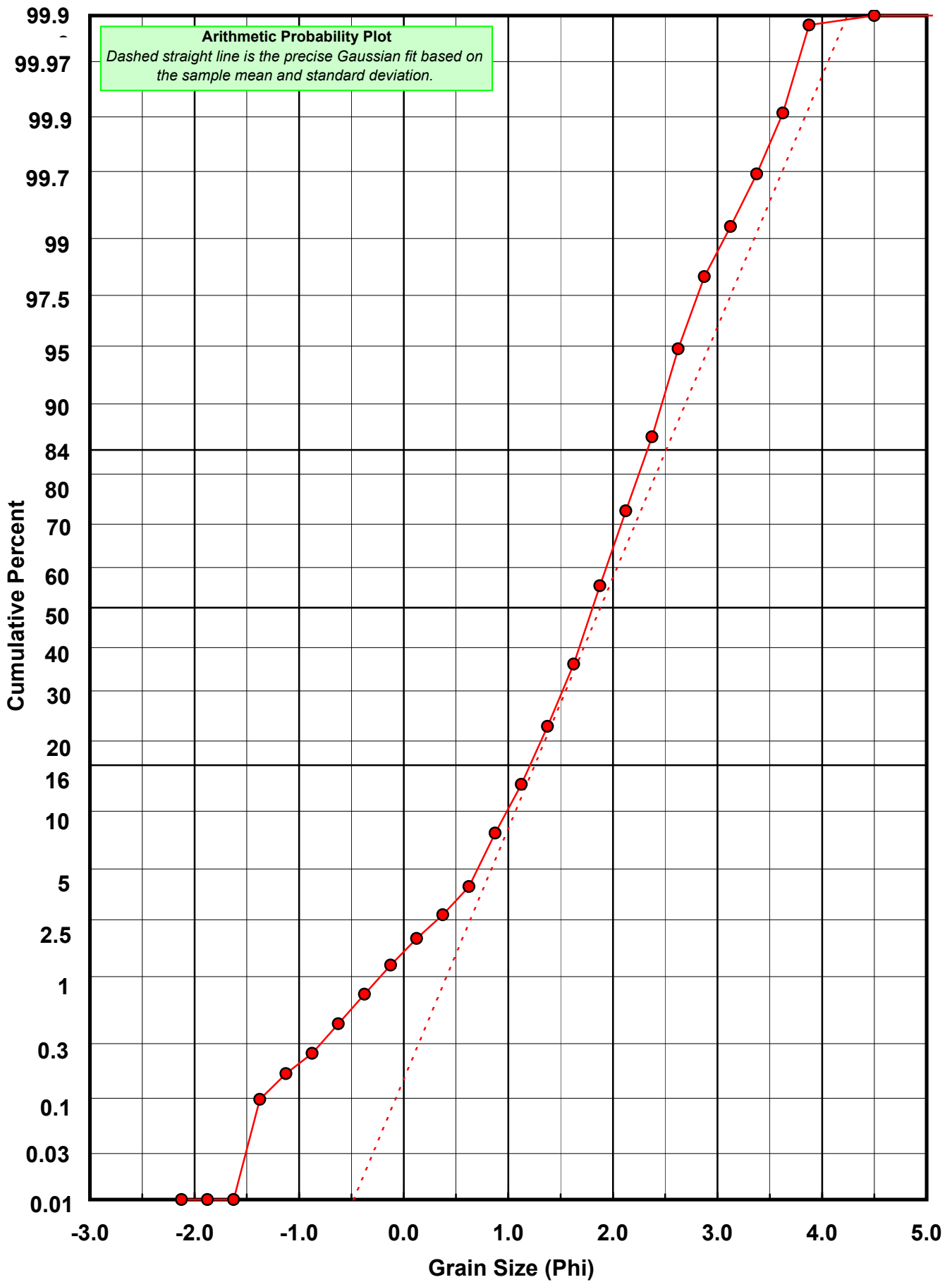
Statistical Results			
Mean:	1.8819	phi	(0.2713 mm)
Standard Dev:	0.6340	phi-units	(0.6444 mm)
Skewness:	-0.7760	dimensionless	
Kurtosis:	5.0423	dimensionless	
5th Moment:	-12.3902	dimensionless	
6th Moment:	60.9252	dimensionless	
RARD *	0.3369	dimensionless	
Median	1.8041	phi	(0.2864 mm)

\* 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: NA-09-MB

Total Carbonate Mass: 3.069 grams

% Carbonate: 5.5 %

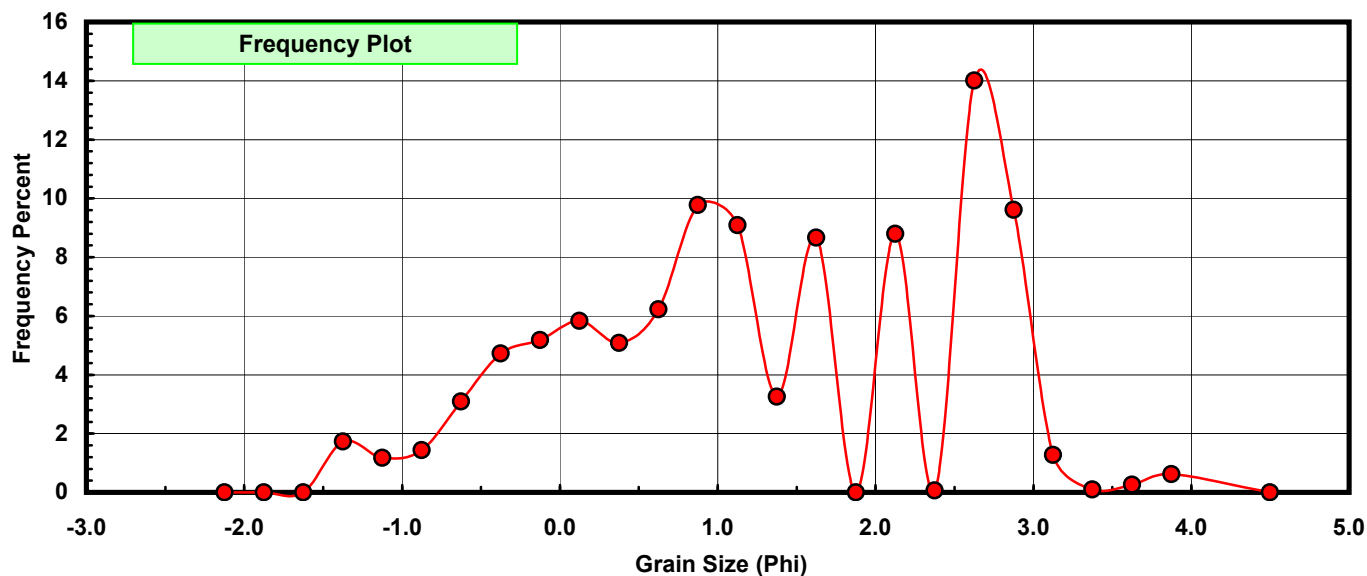
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.053	1.727	1.727
-1.00	-1.125	0.036	1.173	2.900
-0.75	-0.875	0.044	1.434	4.334
-0.50	-0.625	0.095	3.095	7.429
-0.25	-0.375	0.145	4.725	12.154
0.00	-0.125	0.159	5.181	17.335
0.25	0.125	0.179	5.833	23.167
0.50	0.375	0.156	5.083	28.250
0.75	0.625	0.191	6.224	34.474
1.00	0.875	0.300	9.775	44.249
1.25	1.125	0.279	9.091	53.340
1.50	1.375	0.100	3.258	56.598
1.75	1.625	0.266	8.667	65.266
2.00	1.875	0.000	0.000	65.266
2.25	2.125	0.270	8.798	74.063
2.50	2.375	0.002	0.065	74.128
2.75	2.625	0.430	14.011	88.139
3.00	2.875	0.295	9.612	97.752
3.25	3.125	0.039	1.271	99.022
3.50	3.375	0.003	0.098	99.120
3.75	3.625	0.008	0.261	99.381
4.00	3.875	0.019	0.619	100.000
5.00	4.500	0.000	0.000	100.000

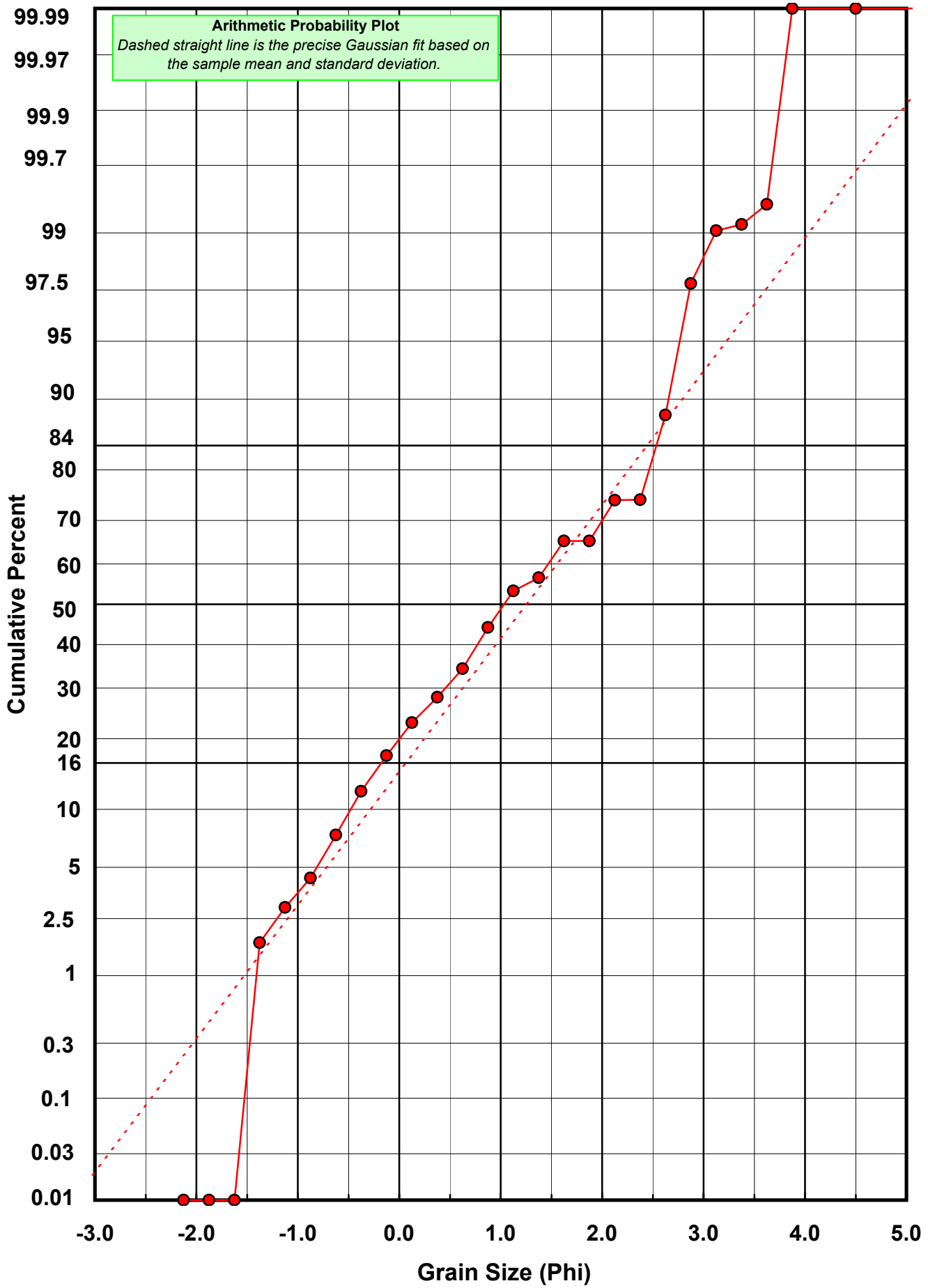
Statistical Results			
Mean:	1.2548	phi	(0.4191 mm)
Standard Dev:	1.1999	phi-units	(0.4353 mm)
Skewness:	-0.1305	dimensionless	
Kurtosis:	2.0750	dimensionless	
5th Moment:	-0.9158	dimensionless	
6th Moment:	5.9458	dimensionless	
RARD *	0.9562	dimensionless	
Median	1.0332	phi	(0.4886 mm)

\* 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: NA-09-MB

Total Digested Mass: 51.167 grams

% Silica: 94.5 %

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	0.008	0.016	0.016
-0.25	-0.375	0.024	0.047	0.063
0.00	-0.125	0.101	0.197	0.260
0.25	0.125	0.170	0.332	0.592
0.50	0.375	0.271	0.530	1.122
0.75	0.625	0.501	0.979	2.101
1.00	0.875	1.774	3.467	5.568
1.25	1.125	2.741	5.357	10.925
1.50	1.375	5.088	9.944	20.869
1.75	1.625	6.946	13.575	34.444
2.00	1.875	10.479	20.480	54.924
2.25	2.125	9.043	17.674	72.598
2.50	2.375	7.126	13.927	86.525
2.75	2.625	4.471	8.738	95.263
3.00	2.875	1.485	2.902	98.165
3.25	3.125	0.526	1.028	99.193
3.50	3.375	0.276	0.539	99.732
3.75	3.625	0.111	0.217	99.949
4.00	3.875	0.026	0.051	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.9192	phi	(0.2644 mm)
Standard Dev:	0.5584	phi-units	(0.679 mm)
Skewness:	-0.2977	dimensionless	
Kurtosis:	3.5903	dimensionless	
5th Moment:	-3.3288	dimensionless	
6th Moment:	25.0109	dimensionless	
RARD *	0.2910	dimensionless	
Median	1.8149	phi	(0.2842 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)

