

**Onshore Grab Sample**

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

**County:** Nassau  
**Latitude:** 30° 33' 4.7"  
**Longitude:** 81° 26' 30.5"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 52.418 grams  
Total Fines in Sample 0.962 grams  
Total Percent Fines 1.80 %

**Dry Sieving Summary**

Total Sample Weight 51.603 grams  
Total Digested Weight 44.151 grams  
Total Carbonate Weight 7.452 grams  
Total Silica % 85.56 %  
Total Carbonate % 14.44 %  
Carbonate/Silica Ratio 0.169

**General Comments:**

None

**Description**

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

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-12-MB

Total Sample Mass: 51.603 grams

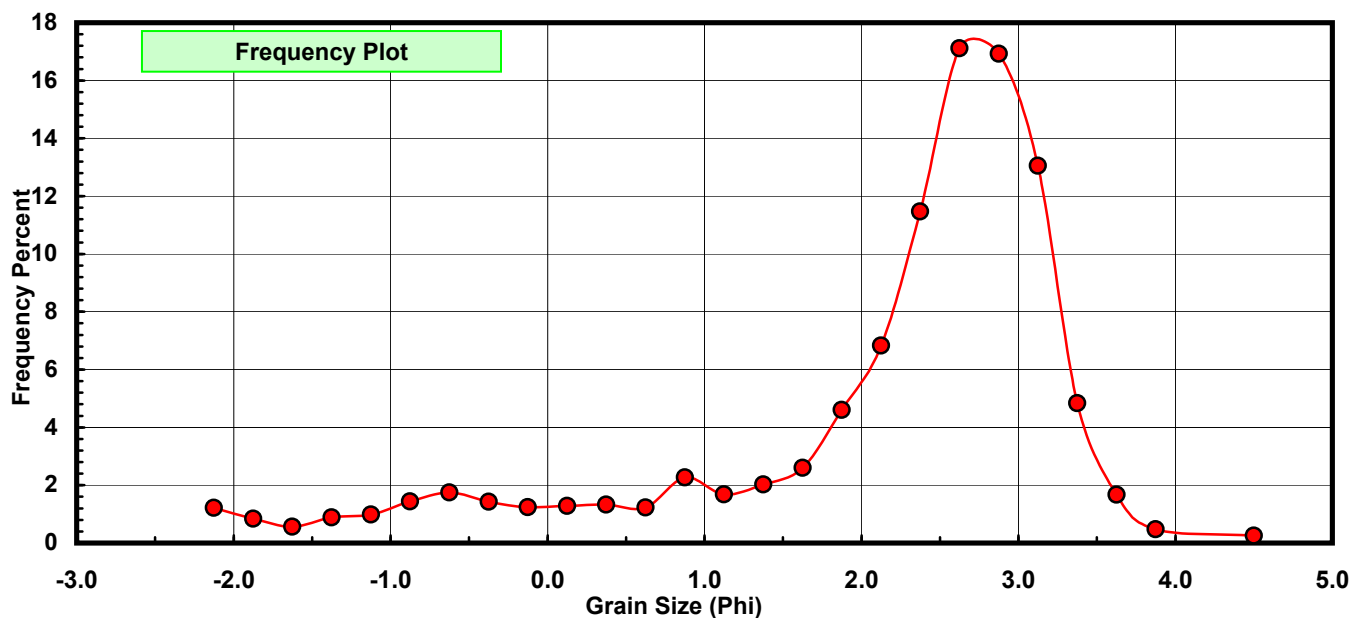
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.631	1.223	1.223
-1.75	-1.875	0.432	0.837	2.060
-1.50	-1.625	0.291	0.564	2.624
-1.25	-1.375	0.455	0.882	3.506
-1.00	-1.125	0.511	0.990	4.496
-0.75	-0.875	0.745	1.444	5.940
-0.50	-0.625	0.903	1.750	7.689
-0.25	-0.375	0.735	1.424	9.114
0.00	-0.125	0.642	1.244	10.358
0.25	0.125	0.662	1.283	11.641
0.50	0.375	0.685	1.327	12.968
0.75	0.625	0.633	1.227	14.195
1.00	0.875	1.170	2.267	16.462
1.25	1.125	0.870	1.686	18.148
1.50	1.375	1.045	2.025	20.173
1.75	1.625	1.340	2.597	22.770
2.00	1.875	2.379	4.610	27.380
2.25	2.125	3.523	6.827	34.207
2.50	2.375	5.917	11.466	45.674
2.75	2.625	8.833	17.117	62.791
3.00	2.875	8.732	16.921	79.712
3.25	3.125	6.736	13.054	92.766
3.50	3.375	2.495	4.835	97.601
3.75	3.625	0.861	1.669	99.269
4.00	3.875	0.244	0.473	99.742
5.00	4.500	0.133	0.258	100.000

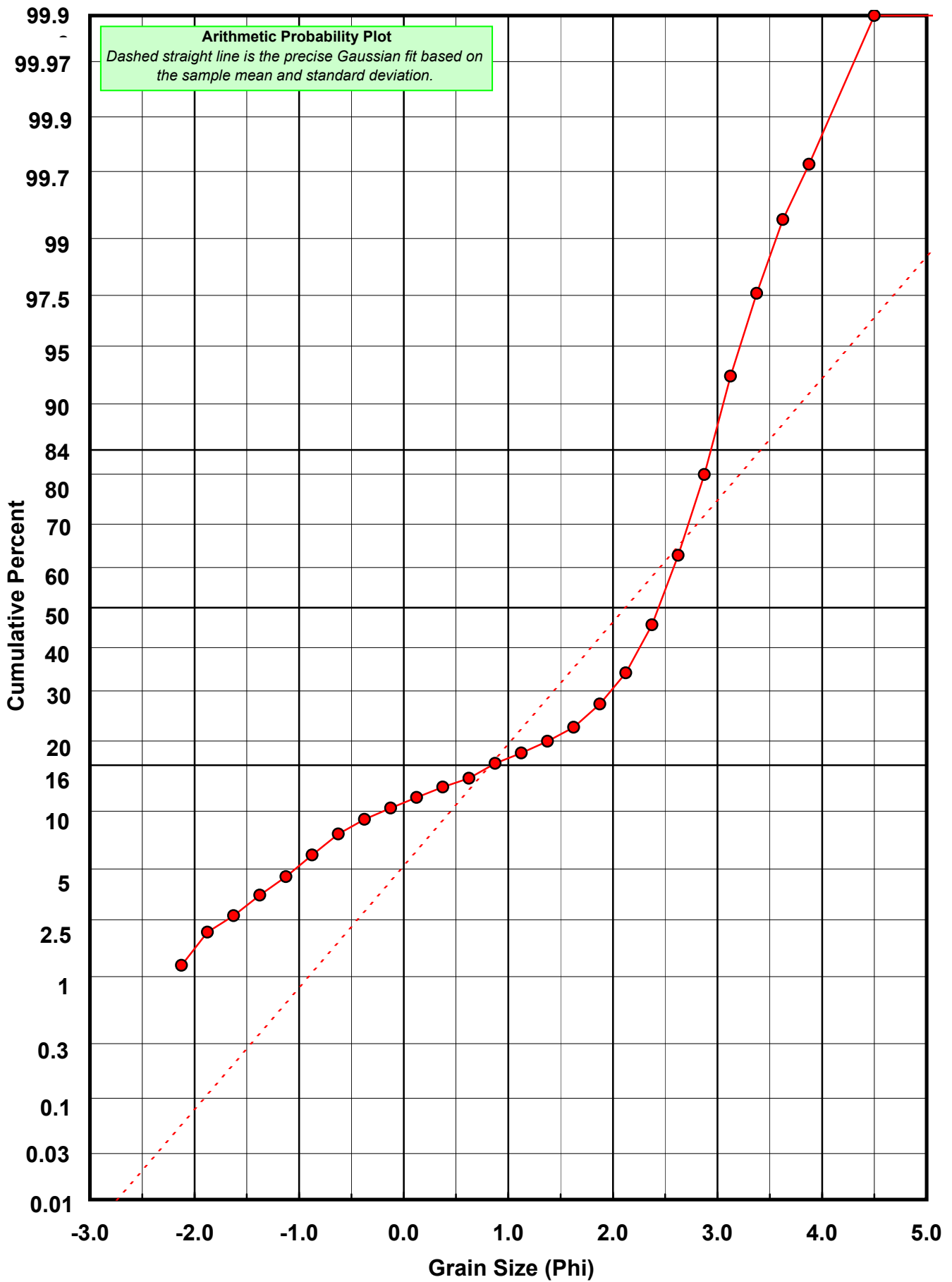
Statistical Results			
Mean:	2.1197	phi	(0.2301 mm)
Standard Dev:	1.3055	phi-units	(0.4046 mm)
Skewness:	-1.5739	dimensionless	
Kurtosis:	4.7897	dimensionless	
5th Moment:	-12.3761	dimensionless	
6th Moment:	35.8799	dimensionless	
RARD *	0.6159	dimensionless	
Median	2.4382	phi	(0.1845 mm)

\* 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-12-MB

Total Carbonate Mass: 8.028 grams

% Carbonate: 14.4 %

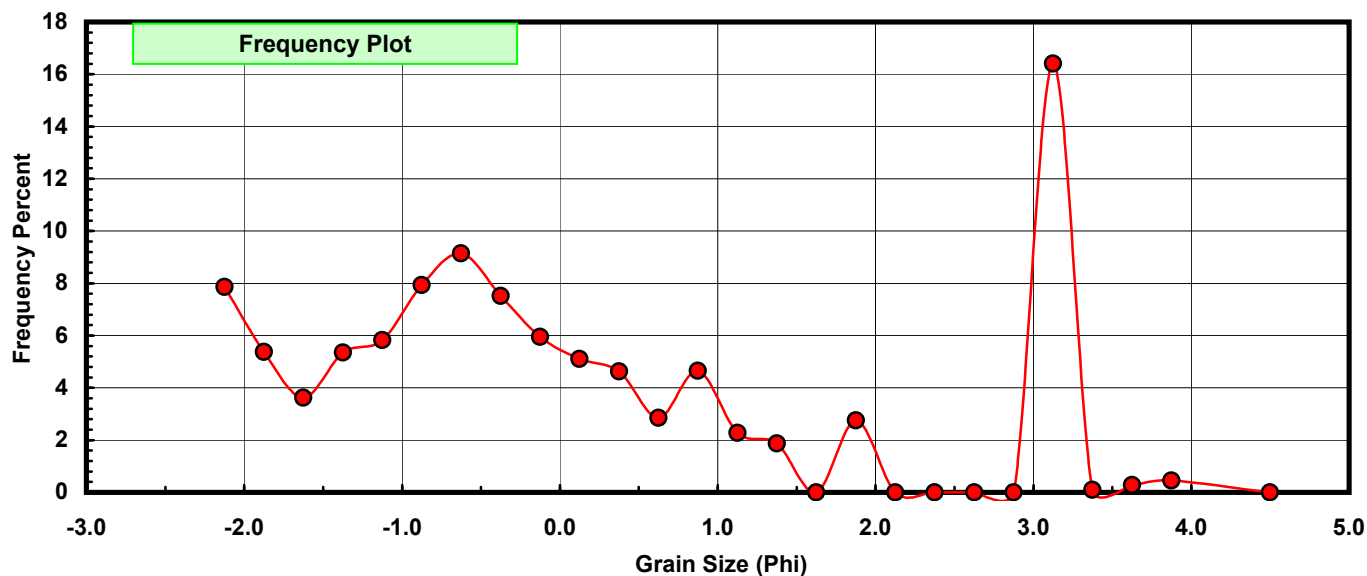
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.631	7.860	7.860
-1.75	-1.875	0.432	5.381	13.241
-1.50	-1.625	0.291	3.625	16.866
-1.25	-1.375	0.430	5.356	22.222
-1.00	-1.125	0.468	5.830	28.052
-0.75	-0.875	0.637	7.935	35.987
-0.50	-0.625	0.734	9.143	45.130
-0.25	-0.375	0.604	7.524	52.653
0.00	-0.125	0.478	5.954	58.607
0.25	0.125	0.410	5.107	63.714
0.50	0.375	0.372	4.634	68.348
0.75	0.625	0.229	2.853	71.201
1.00	0.875	0.374	4.659	75.859
1.25	1.125	0.183	2.280	78.139
1.50	1.375	0.150	1.868	80.007
1.75	1.625	0.000	0.000	80.007
2.00	1.875	0.221	2.753	82.760
2.25	2.125	0.000	0.000	82.760
2.50	2.375	0.000	0.000	82.760
2.75	2.625	0.000	0.000	82.760
3.00	2.875	0.000	0.000	82.760
3.25	3.125	1.317	16.405	99.165
3.50	3.375	0.008	0.100	99.265
3.75	3.625	0.023	0.286	99.552
4.00	3.875	0.036	0.448	100.000
5.00	4.500	0.000	0.000	100.000

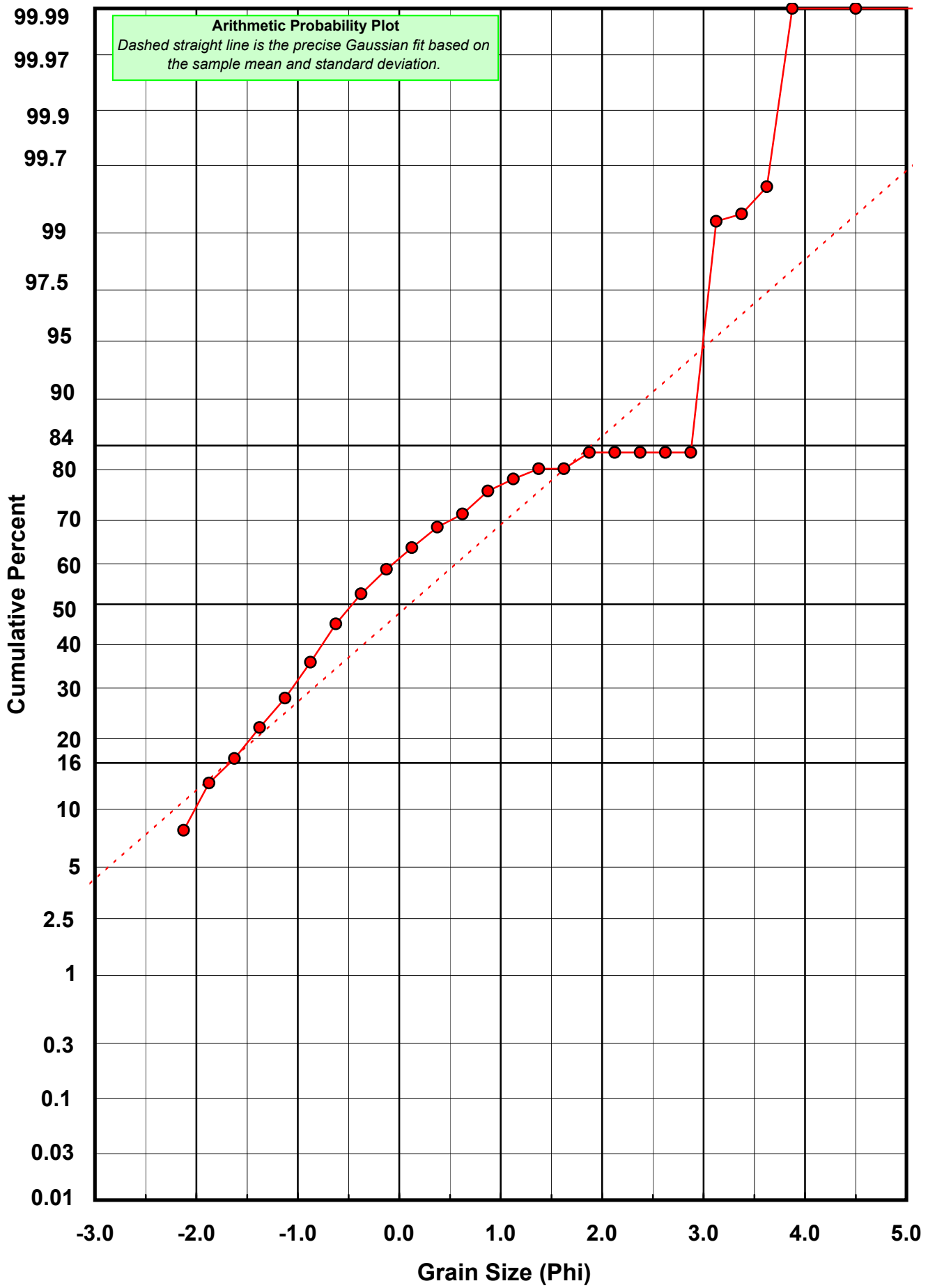
Statistical Results			
Mean:	0.1008	phi	(0.9325 mm)
Standard Dev:	1.8031	phi-units	(0.2866 mm)
Skewness:	0.6464	dimensionless	
Kurtosis:	2.0655	dimensionless	
5th Moment:	2.4187	dimensionless	
6th Moment:	5.3419	dimensionless	
RARD *	17.8872	dimensionless	
Median	-0.4632	phi	(1.3786 mm)

\* 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-12-MB

Total Digested Mass: 44.048 grams

% Silica: 85.6 %

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	0.025	0.057	0.057
-1.00	-1.125	0.043	0.098	0.154
-0.75	-0.875	0.108	0.245	0.400
-0.50	-0.625	0.169	0.384	0.783
-0.25	-0.375	0.131	0.297	1.081
0.00	-0.125	0.164	0.372	1.453
0.25	0.125	0.252	0.572	2.025
0.50	0.375	0.313	0.711	2.736
0.75	0.625	0.404	0.917	3.653
1.00	0.875	0.796	1.807	5.460
1.25	1.125	0.687	1.560	7.020
1.50	1.375	0.895	2.032	9.051
1.75	1.625	1.343	3.049	12.100
2.00	1.875	2.158	4.899	17.000
2.25	2.125	3.717	8.439	25.438
2.50	2.375	5.950	13.508	38.946
2.75	2.625	8.945	20.307	59.254
3.00	2.875	8.996	20.423	79.677
3.25	3.125	5.419	12.302	91.979
3.50	3.375	2.487	5.646	97.625
3.75	3.625	0.838	1.902	99.528
4.00	3.875	0.208	0.472	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.4865	phi	(0.1784 mm)
Standard Dev:	0.7495	phi-units	(0.5948 mm)
Skewness:	-1.6469	dimensionless	
Kurtosis:	6.8365	dimensionless	
5th Moment:	-23.4525	dimensionless	
6th Moment:	95.0497	dimensionless	
RARD *	0.3014	dimensionless	
Median	2.5111	phi	(0.1754 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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> 1.33	Poor homogeneity (e.g., glacial)

