

Onshore Grab Sample

Sample: FG-18-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Flagler
Latitude: 29° 27' 12.9"
Longitude: 81° 07' 51.4"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 55.78 grams
Total Fines in Sample 0.188 grams
Total Percent Fines 0.34 %

Dry Sieving Summary

Total Sample Weight 55.414 grams
Total Digested Weight 38.461 grams
Total Carbonate Weight 16.953 grams
Total Silica % 69.41 %
Total Carbonate % 30.59 %
Carbonate/Silica Ratio 0.441

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-18-BB

Total Sample Mass: 55.414 grams

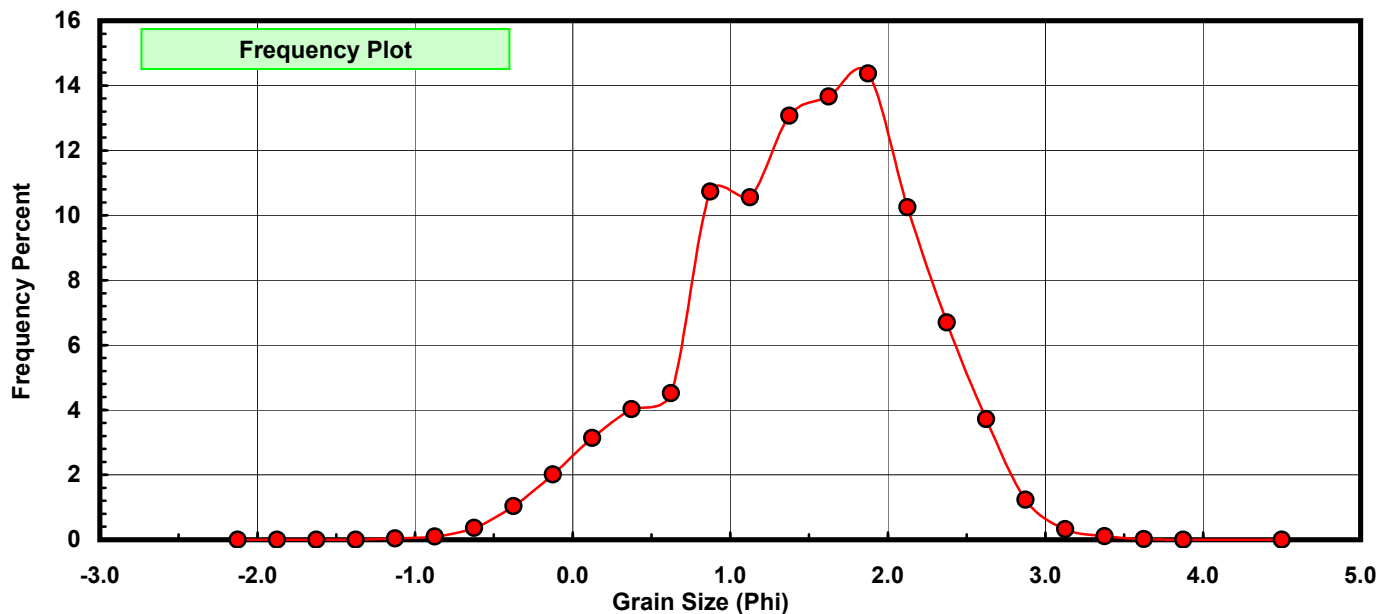
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.024	0.043	0.043
-0.75	-0.875	0.054	0.097	0.141
-0.50	-0.625	0.203	0.366	0.507
-0.25	-0.375	0.576	1.039	1.547
0.00	-0.125	1.116	2.014	3.560
0.25	0.125	1.738	3.136	6.697
0.50	0.375	2.229	4.022	10.719
0.75	0.625	2.505	4.521	15.240
1.00	0.875	5.950	10.737	25.977
1.25	1.125	5.851	10.559	36.536
1.50	1.375	7.243	13.071	49.607
1.75	1.625	7.572	13.664	63.271
2.00	1.875	7.965	14.374	77.645
2.25	2.125	5.682	10.254	87.898
2.50	2.375	3.711	6.697	94.595
2.75	2.625	2.060	3.717	98.313
3.00	2.875	0.682	1.231	99.543
3.25	3.125	0.183	0.330	99.874
3.50	3.375	0.058	0.105	99.978
3.75	3.625	0.012	0.022	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

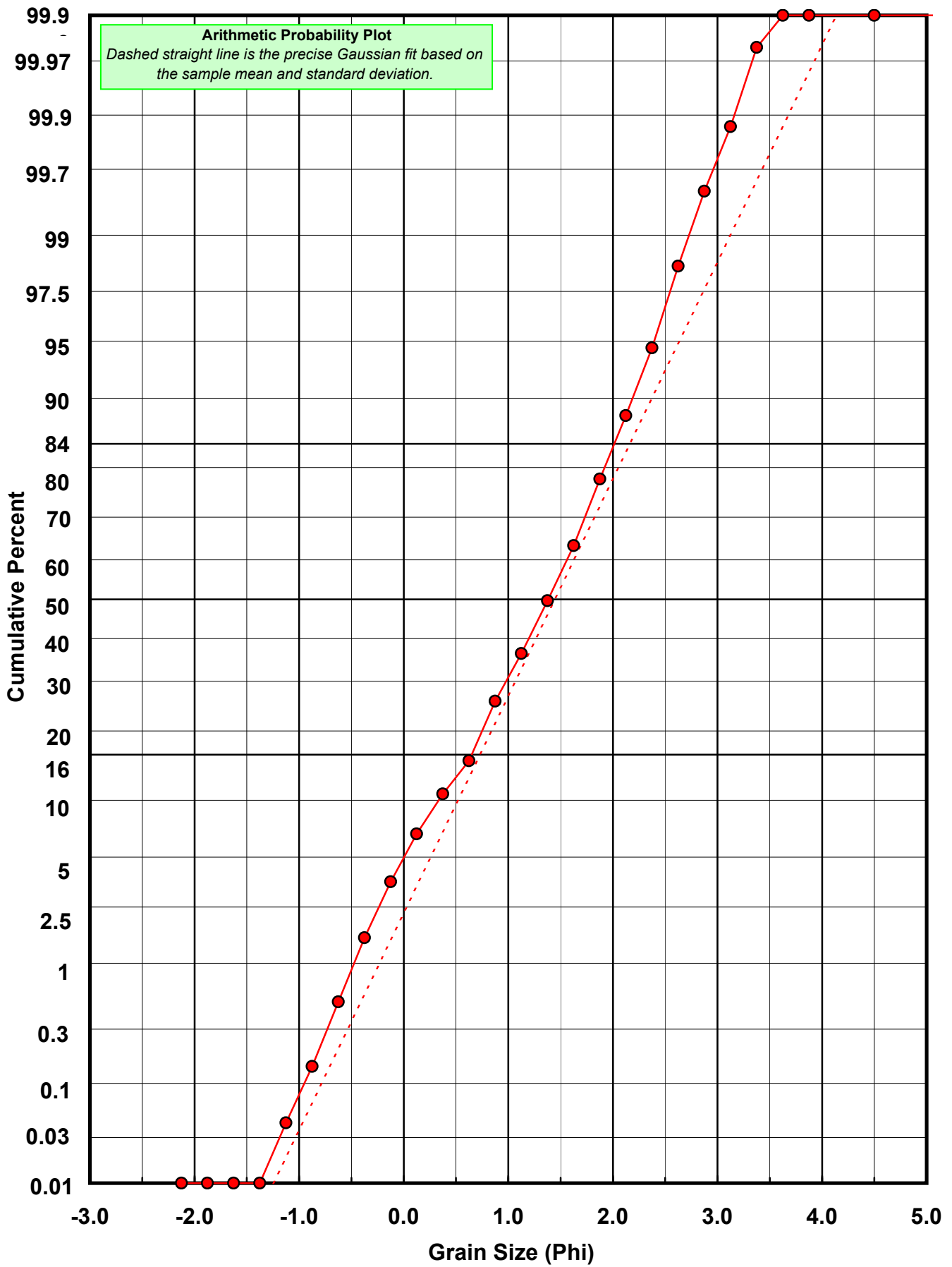
Statistical Results			
Mean:	1.4458	phi	(0.3671 mm)
Standard Dev:	0.7227	phi-units	(0.606 mm)
Skewness:	-0.3850	dimensionless	
Kurtosis:	2.9064	dimensionless	
5th Moment:	-2.8751	dimensionless	
6th Moment:	13.6002	dimensionless	
RARD *	0.4999	dimensionless	
Median	1.3822	phi	(0.3836 mm)

* 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: FG-18-BB

Total Carbonate Mass: 17.123 grams

% Carbonate: 30.6 %

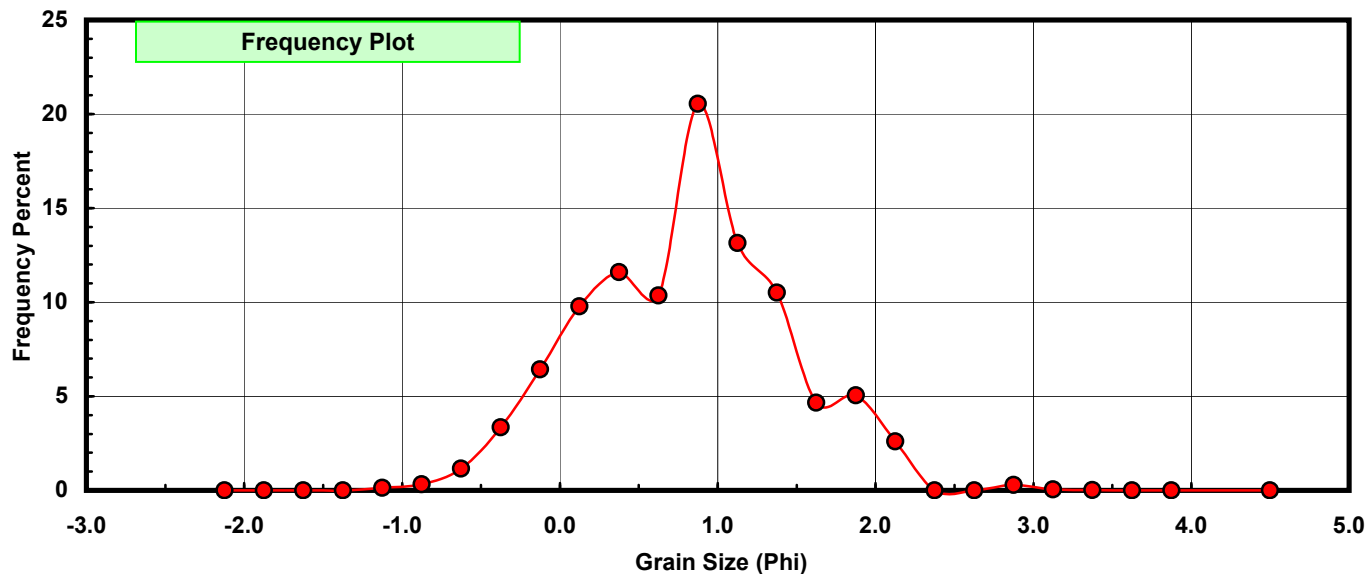
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.024	0.140	0.140
-0.75	-0.875	0.054	0.315	0.456
-0.50	-0.625	0.199	1.162	1.618
-0.25	-0.375	0.575	3.358	4.976
0.00	-0.125	1.102	6.436	11.412
0.25	0.125	1.674	9.776	21.188
0.50	0.375	1.986	11.598	32.786
0.75	0.625	1.773	10.354	43.141
1.00	0.875	3.517	20.540	63.680
1.25	1.125	2.252	13.152	76.832
1.50	1.375	1.799	10.506	87.339
1.75	1.625	0.798	4.660	91.999
2.00	1.875	0.865	5.052	97.051
2.25	2.125	0.445	2.599	99.650
2.50	2.375	0.000	0.000	99.650
2.75	2.625	0.000	0.000	99.650
3.00	2.875	0.049	0.286	99.936
3.25	3.125	0.008	0.047	99.982
3.50	3.375	0.003	0.018	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

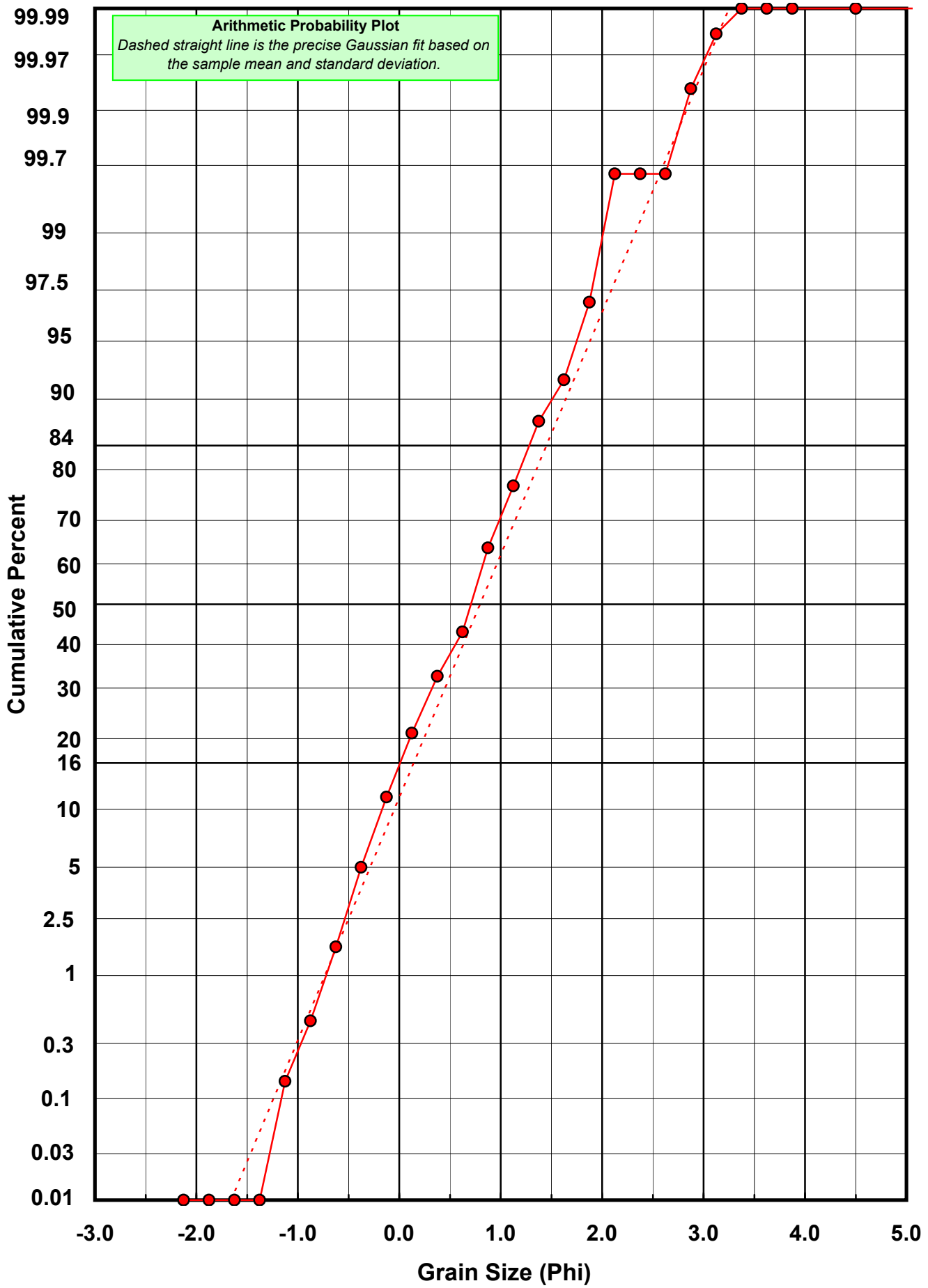
Statistical Results			
Mean:	0.7963	phi	(0.5758 mm)
Standard Dev:	0.6593	phi-units	(0.6332 mm)
Skewness:	0.0354	dimensionless	
Kurtosis:	2.7208	dimensionless	
5th Moment:	0.7944	dimensionless	
6th Moment:	12.5404	dimensionless	
RARD *	0.8279	dimensionless	
Median	0.7085	phi	(0.612 mm)

* 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: FG-18-BB

Total Digested Mass: 38.461 grams

% Silica: 69.4 %

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	0.004	0.010	0.010
-0.25	-0.375	0.001	0.003	0.013
0.00	-0.125	0.014	0.036	0.049
0.25	0.125	0.064	0.166	0.216
0.50	0.375	0.243	0.632	0.848
0.75	0.625	0.732	1.903	2.751
1.00	0.875	2.433	6.326	9.077
1.25	1.125	3.599	9.358	18.434
1.50	1.375	5.444	14.155	32.589
1.75	1.625	6.774	17.613	50.202
2.00	1.875	7.100	18.460	68.662
2.25	2.125	5.237	13.616	82.278
2.50	2.375	3.795	9.867	92.145
2.75	2.625	2.146	5.580	97.725
3.00	2.875	0.633	1.646	99.371
3.25	3.125	0.175	0.455	99.826
3.50	3.375	0.055	0.143	99.969
3.75	3.625	0.012	0.031	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:	1.7396	phi	(0.2995 mm)
Standard Dev:	0.5433	phi-units	(0.6862 mm)
Skewness:	-0.0403	dimensionless	
Kurtosis:	2.7532	dimensionless	
5th Moment:	-0.3767	dimensionless	
6th Moment:	12.6489	dimensionless	
RARD *	0.3123	dimensionless	
Median	1.6221	phi	(0.3249 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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