

Onshore Grab Sample

Sample: FG-17-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Flagler
Latitude: 29° 27' 55.3"
Longitude: 81° 07' 10.9"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	81.128 grams
Total Fines in Sample	0.175 grams
Total Percent Fines	0.22 %

Dry Sieving Summary

Total Sample Weight	80.875 grams
Total Digested Weight	38.694 grams
Total Carbonate Weight	42.181 grams
Total Silica %	47.84 %
Total Carbonate %	52.16 %
Carbonate/Silica Ratio	1.090

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-17-BB

Total Sample Mass: 80.875 grams

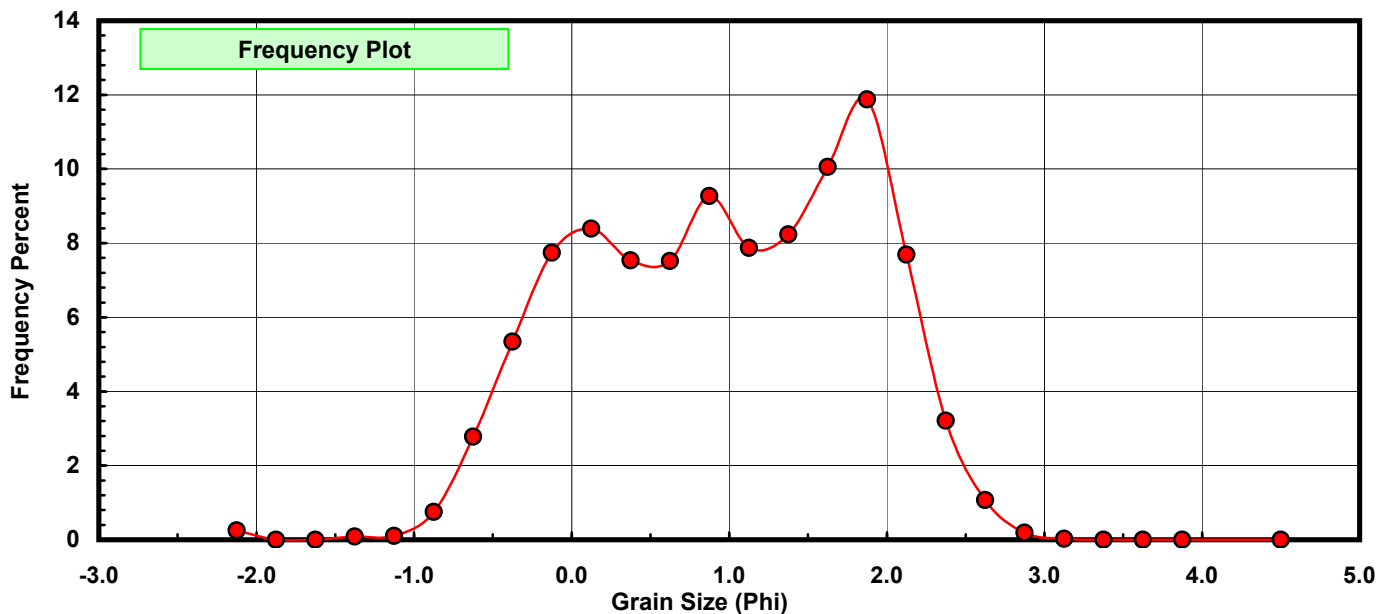
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.201	0.249	0.249
-1.75	-1.875	0.000	0.000	0.249
-1.50	-1.625	0.000	0.000	0.249
-1.25	-1.375	0.068	0.084	0.333
-1.00	-1.125	0.087	0.108	0.440
-0.75	-0.875	0.609	0.753	1.193
-0.50	-0.625	2.250	2.782	3.975
-0.25	-0.375	4.320	5.342	9.317
0.00	-0.125	6.262	7.743	17.060
0.25	0.125	6.785	8.389	25.449
0.50	0.375	6.094	7.535	32.984
0.75	0.625	6.078	7.515	40.500
1.00	0.875	7.496	9.269	49.768
1.25	1.125	6.364	7.869	57.637
1.50	1.375	6.658	8.232	65.870
1.75	1.625	8.131	10.054	75.923
2.00	1.875	9.608	11.880	87.803
2.25	2.125	6.219	7.690	95.493
2.50	2.375	2.599	3.214	98.707
2.75	2.625	0.867	1.072	99.779
3.00	2.875	0.153	0.189	99.968
3.25	3.125	0.024	0.030	99.998
3.50	3.375	0.002	0.002	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

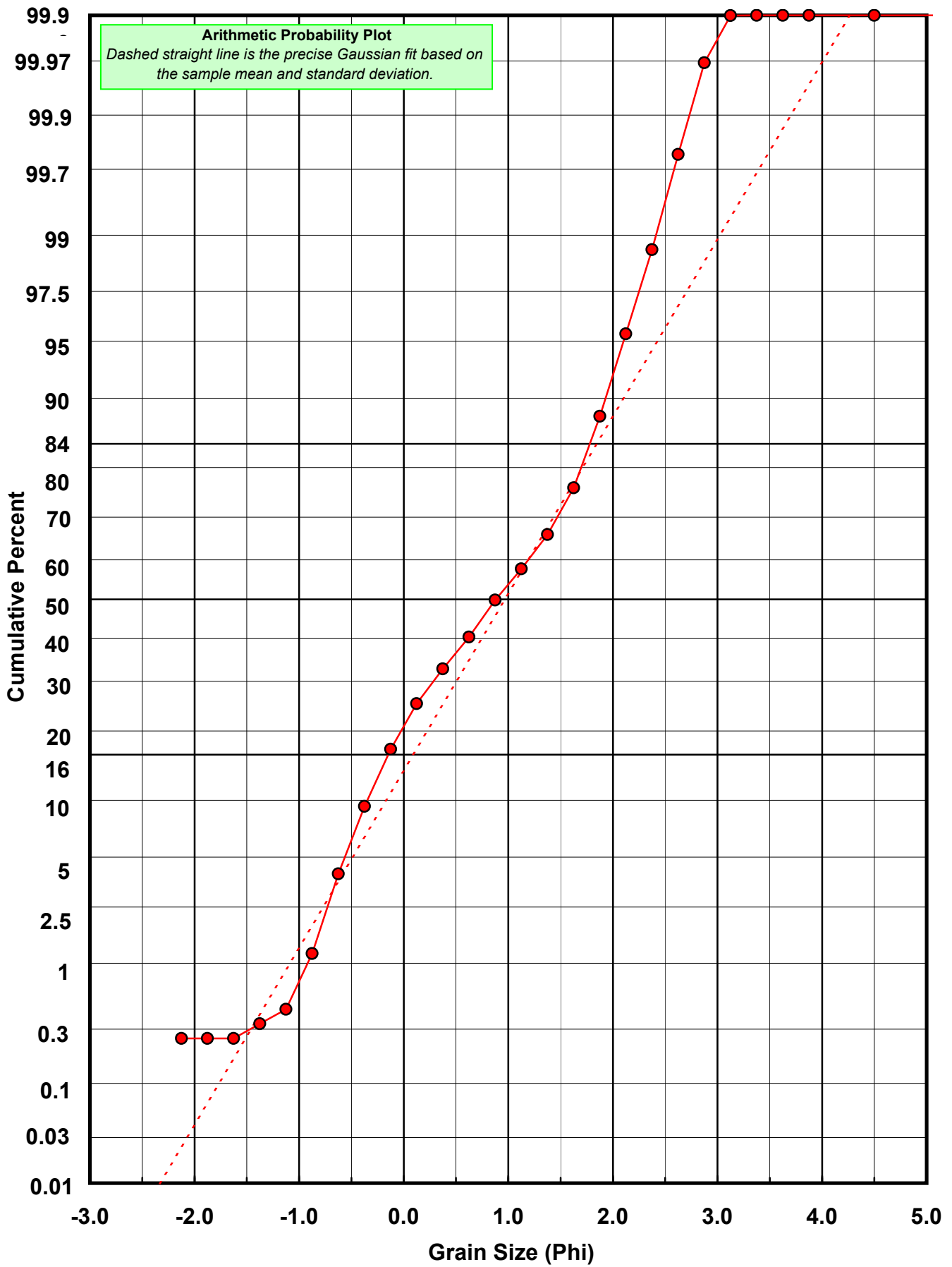
Statistical Results			
Mean:	0.9676	phi	(0.5113 mm)
Standard Dev:	0.8858	phi-units	(0.5412 mm)
Skewness:	-0.2269	dimensionless	
Kurtosis:	2.2274	dimensionless	
5th Moment:	-1.9022	dimensionless	
6th Moment:	9.4053	dimensionless	
RARD *	0.9154	dimensionless	
Median	0.8824	phi	(0.5425 mm)

* 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-17-BB

Total Carbonate Mass: 42.260 grams

% Carbonate: 52.2 %

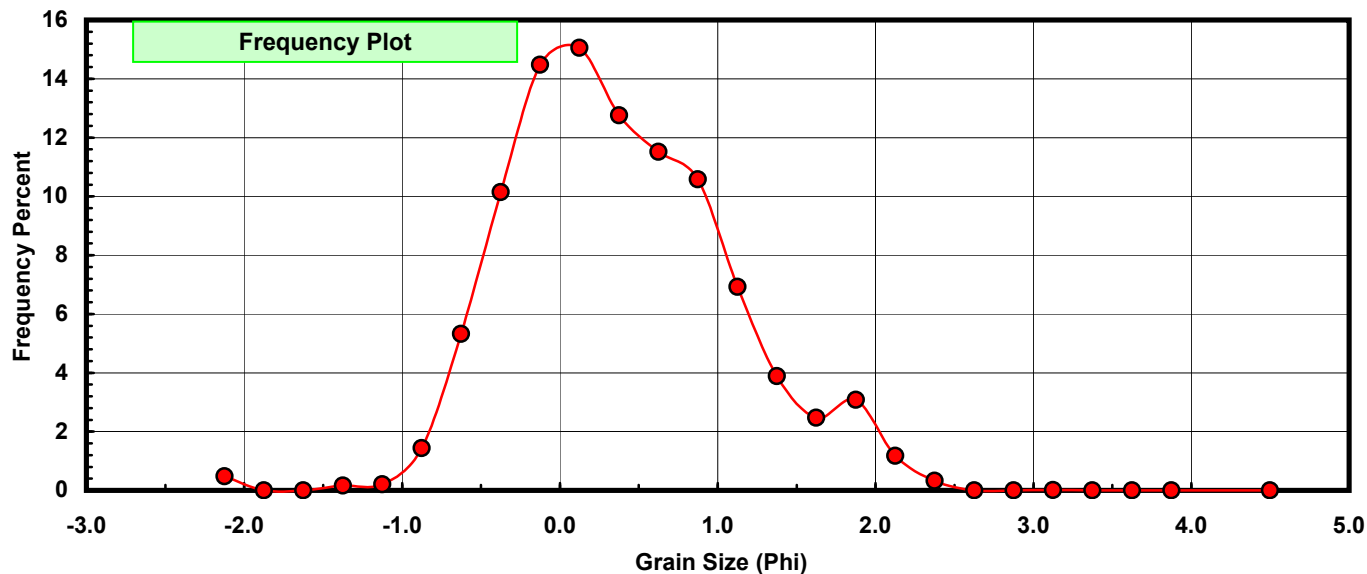
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.201	0.476	0.476
-1.75	-1.875	0.000	0.000	0.476
-1.50	-1.625	0.000	0.000	0.476
-1.25	-1.375	0.068	0.161	0.637
-1.00	-1.125	0.087	0.206	0.842
-0.75	-0.875	0.609	1.441	2.283
-0.50	-0.625	2.250	5.324	7.608
-0.25	-0.375	4.288	10.147	17.754
0.00	-0.125	6.116	14.472	32.227
0.25	0.125	6.360	15.050	47.276
0.50	0.375	5.393	12.761	60.038
0.75	0.625	4.867	11.517	71.555
1.00	0.875	4.472	10.582	82.137
1.25	1.125	2.924	6.919	89.056
1.50	1.375	1.642	3.885	92.941
1.75	1.625	1.044	2.470	95.412
2.00	1.875	1.301	3.079	98.490
2.25	2.125	0.495	1.171	99.662
2.50	2.375	0.138	0.327	99.988
2.75	2.625	0.000	0.000	99.988
3.00	2.875	0.000	0.000	99.988
3.25	3.125	0.003	0.007	99.995
3.50	3.375	0.002	0.005	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

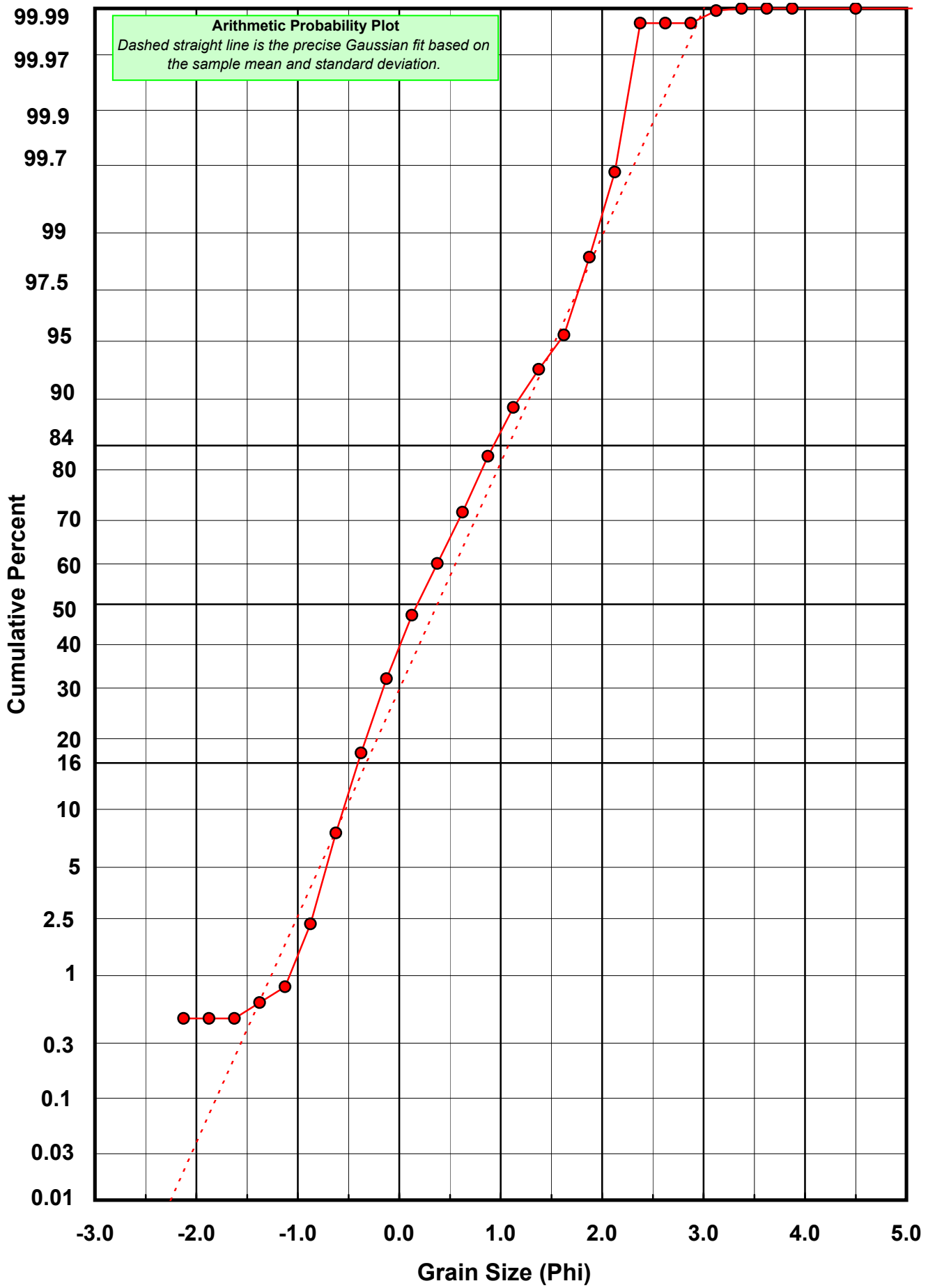
Statistical Results			
Mean:	0.3767	phi	(0.7702 mm)
Standard Dev:	0.7062	phi-units	(0.6129 mm)
Skewness:	0.2612	dimensionless	
Kurtosis:	3.2733	dimensionless	
5th Moment:	0.2792	dimensionless	
6th Moment:	20.3756	dimensionless	
RARD *	1.8745	dimensionless	
Median	0.1784	phi	(0.8837 mm)

* 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-17-BB

Total Digested Mass: 38.694 grams

% Silica: 47.8 %

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	0.000	0.000	0.000
-0.25	-0.375	0.032	0.083	0.083
0.00	-0.125	0.146	0.377	0.460
0.25	0.125	0.425	1.098	1.558
0.50	0.375	0.701	1.812	3.370
0.75	0.625	1.211	3.130	6.500
1.00	0.875	3.024	7.815	14.315
1.25	1.125	3.440	8.890	23.205
1.50	1.375	5.016	12.963	36.168
1.75	1.625	7.087	18.316	54.484
2.00	1.875	8.307	21.468	75.952
2.25	2.125	5.724	14.793	90.745
2.50	2.375	2.461	6.360	97.105
2.75	2.625	0.944	2.440	99.545
3.00	2.875	0.155	0.401	99.946
3.25	3.125	0.021	0.054	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:	1.6164	phi	(0.3261 mm)
Standard Dev:	0.5470	phi-units	(0.6845 mm)
Skewness:	-0.5423	dimensionless	
Kurtosis:	3.1490	dimensionless	
5th Moment:	-4.3466	dimensionless	
6th Moment:	17.2769	dimensionless	
RARD *	0.3384	dimensionless	
Median	1.5638	phi	(0.3383 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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