

Onshore Grab Sample

Sample: FG-14-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Flagler
Latitude: 29° 30' 04.5"
Longitude: 29° 08' 12.9"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 86.185 grams
Total Fines in Sample 0.127 grams
Total Percent Fines 0.15 %

Dry Sieving Summary

Total Sample Weight 86.010 grams
Total Digested Weight 62.973 grams
Total Carbonate Weight 23.037 grams
Total Silica % 73.22 %
Total Carbonate % 26.78 %
Carbonate/Silica Ratio 0.366

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-14-BB

Total Sample Mass: 86.010 grams

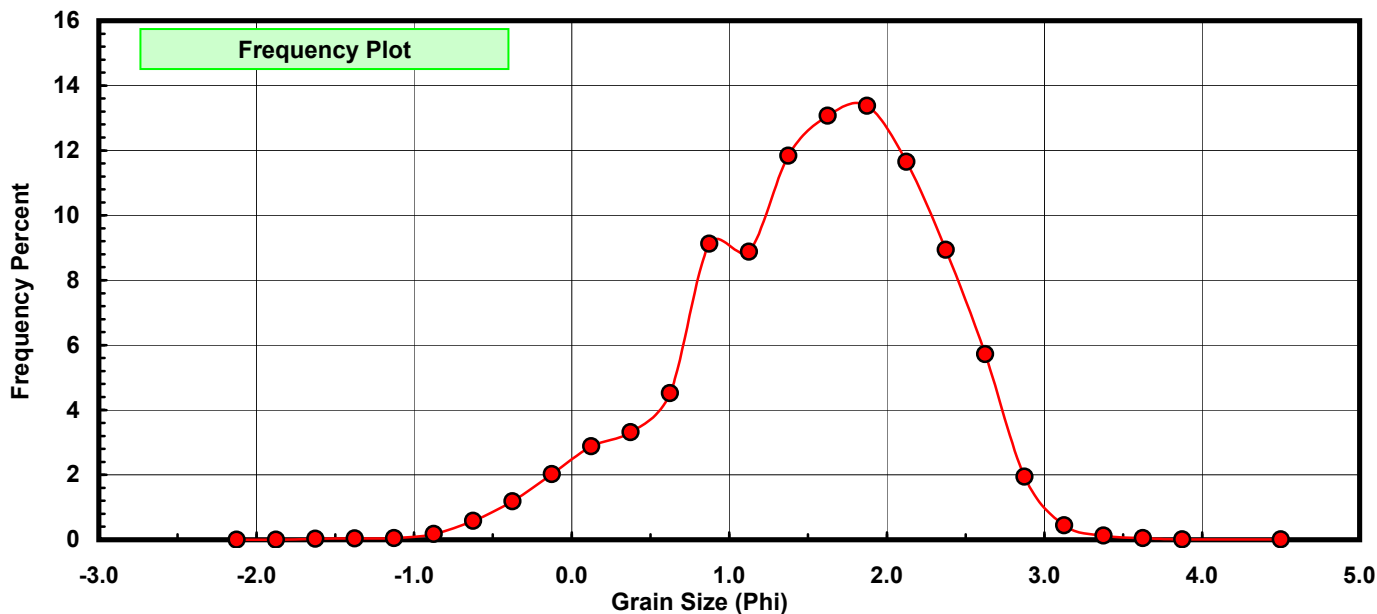
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.029	0.034	0.034
-1.25	-1.375	0.034	0.040	0.073
-1.00	-1.125	0.040	0.047	0.120
-0.75	-0.875	0.154	0.179	0.299
-0.50	-0.625	0.503	0.585	0.884
-0.25	-0.375	1.017	1.182	2.066
0.00	-0.125	1.742	2.025	4.091
0.25	0.125	2.478	2.881	6.972
0.50	0.375	2.854	3.318	10.291
0.75	0.625	3.887	4.519	14.810
1.00	0.875	7.849	9.126	23.936
1.25	1.125	7.638	8.880	32.816
1.50	1.375	10.182	11.838	44.654
1.75	1.625	11.240	13.068	57.722
2.00	1.875	11.503	13.374	71.096
2.25	2.125	10.016	11.645	82.742
2.50	2.375	7.691	8.942	91.684
2.75	2.625	4.925	5.726	97.410
3.00	2.875	1.675	1.947	99.357
3.25	3.125	0.384	0.446	99.804
3.50	3.375	0.109	0.127	99.930
3.75	3.625	0.042	0.049	99.979
4.00	3.875	0.008	0.009	99.988
5.00	4.500	0.010	0.012	100.000

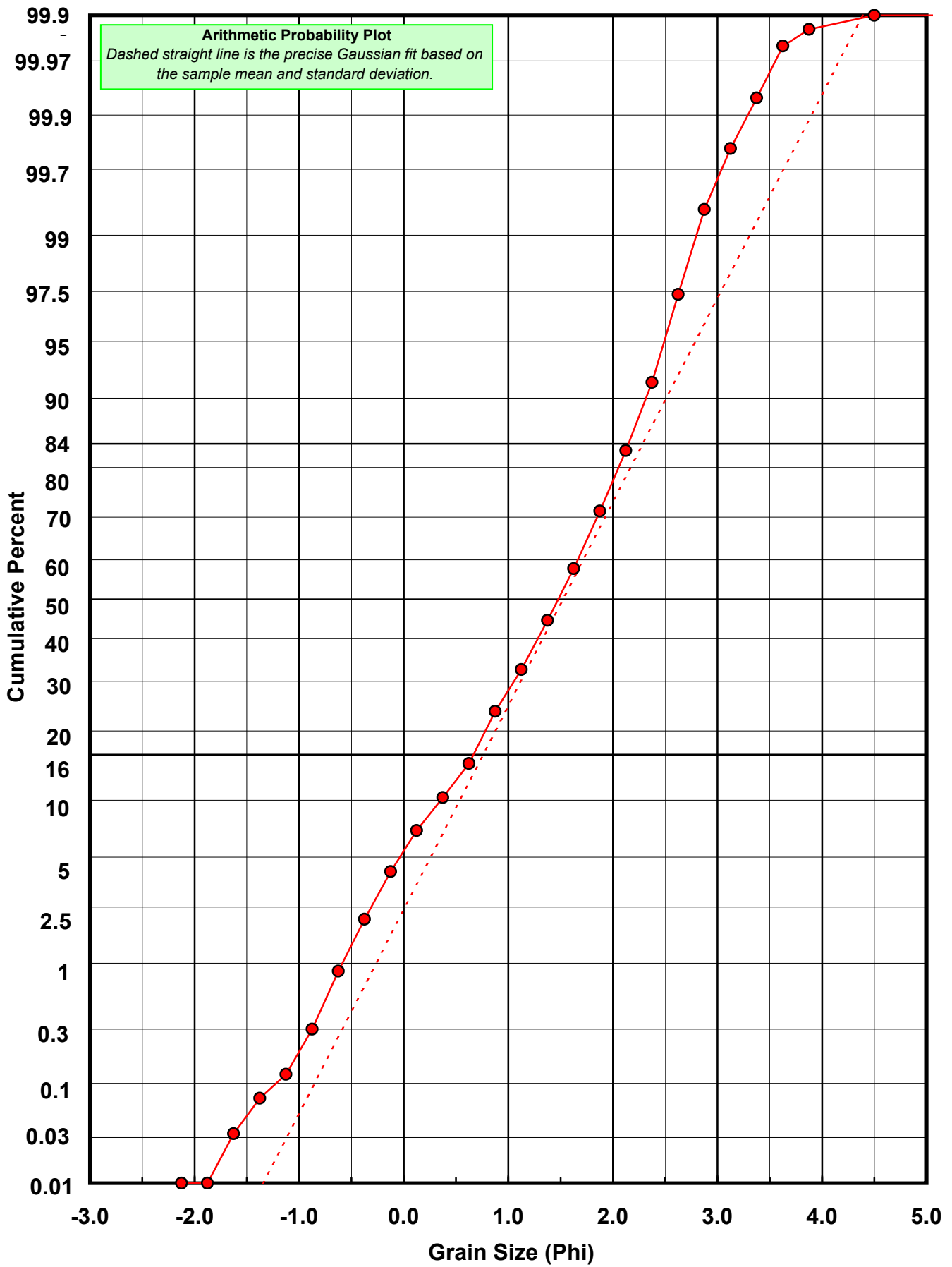
Statistical Results			
Mean:	1.5232	phi	(0.3479 mm)
Standard Dev:	0.7700	phi-units	(0.5864 mm)
Skewness:	-0.5076	dimensionless	
Kurtosis:	3.0682	dimensionless	
5th Moment:	-4.0798	dimensionless	
6th Moment:	16.7319	dimensionless	
RARD *	0.5055	dimensionless	
Median	1.4773	phi	(0.3592 mm)

* 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-14-BB

Total Carbonate Mass: 23.066 grams

% Carbonate: 26.8 %

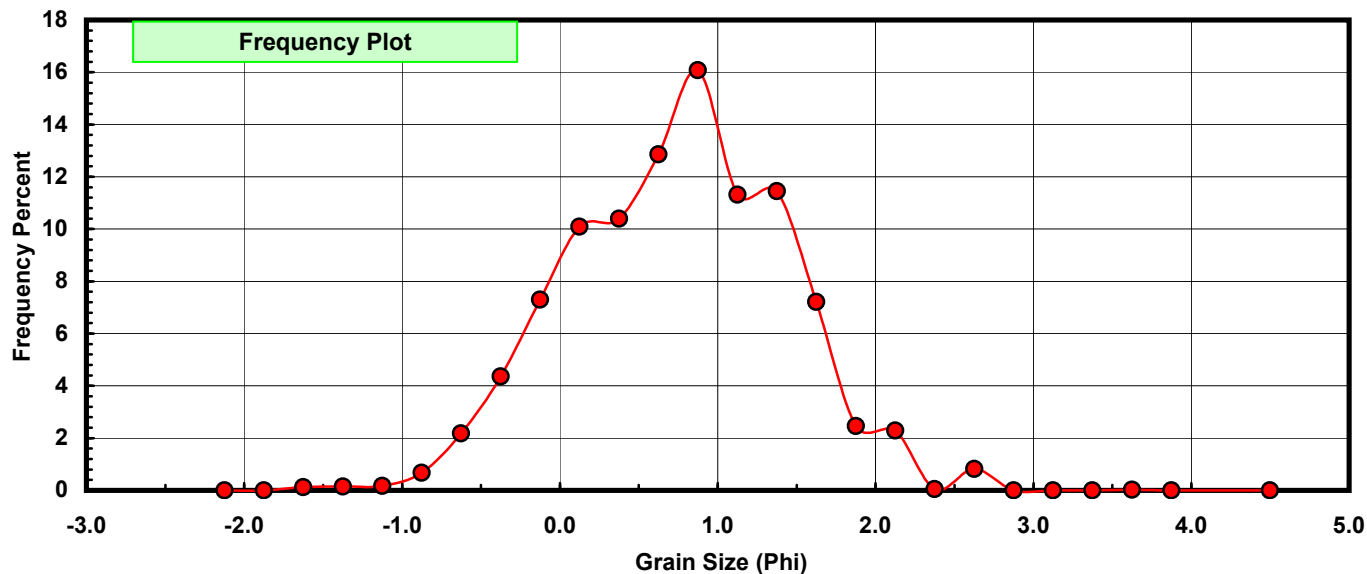
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.029	0.126	0.126
-1.25	-1.375	0.034	0.147	0.273
-1.00	-1.125	0.040	0.173	0.447
-0.75	-0.875	0.154	0.668	1.114
-0.50	-0.625	0.503	2.181	3.295
-0.25	-0.375	1.005	4.357	7.652
0.00	-0.125	1.683	7.296	14.948
0.25	0.125	2.328	10.093	25.041
0.50	0.375	2.397	10.392	35.433
0.75	0.625	2.967	12.863	48.296
1.00	0.875	3.709	16.080	64.376
1.25	1.125	2.611	11.320	75.696
1.50	1.375	2.641	11.450	87.146
1.75	1.625	1.664	7.214	94.360
2.00	1.875	0.569	2.467	96.826
2.25	2.125	0.527	2.285	99.111
2.50	2.375	0.011	0.048	99.159
2.75	2.625	0.189	0.819	99.978
3.00	2.875	0.000	0.000	99.978
3.25	3.125	0.000	0.000	99.978
3.50	3.375	0.000	0.000	99.978
3.75	3.625	0.005	0.022	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

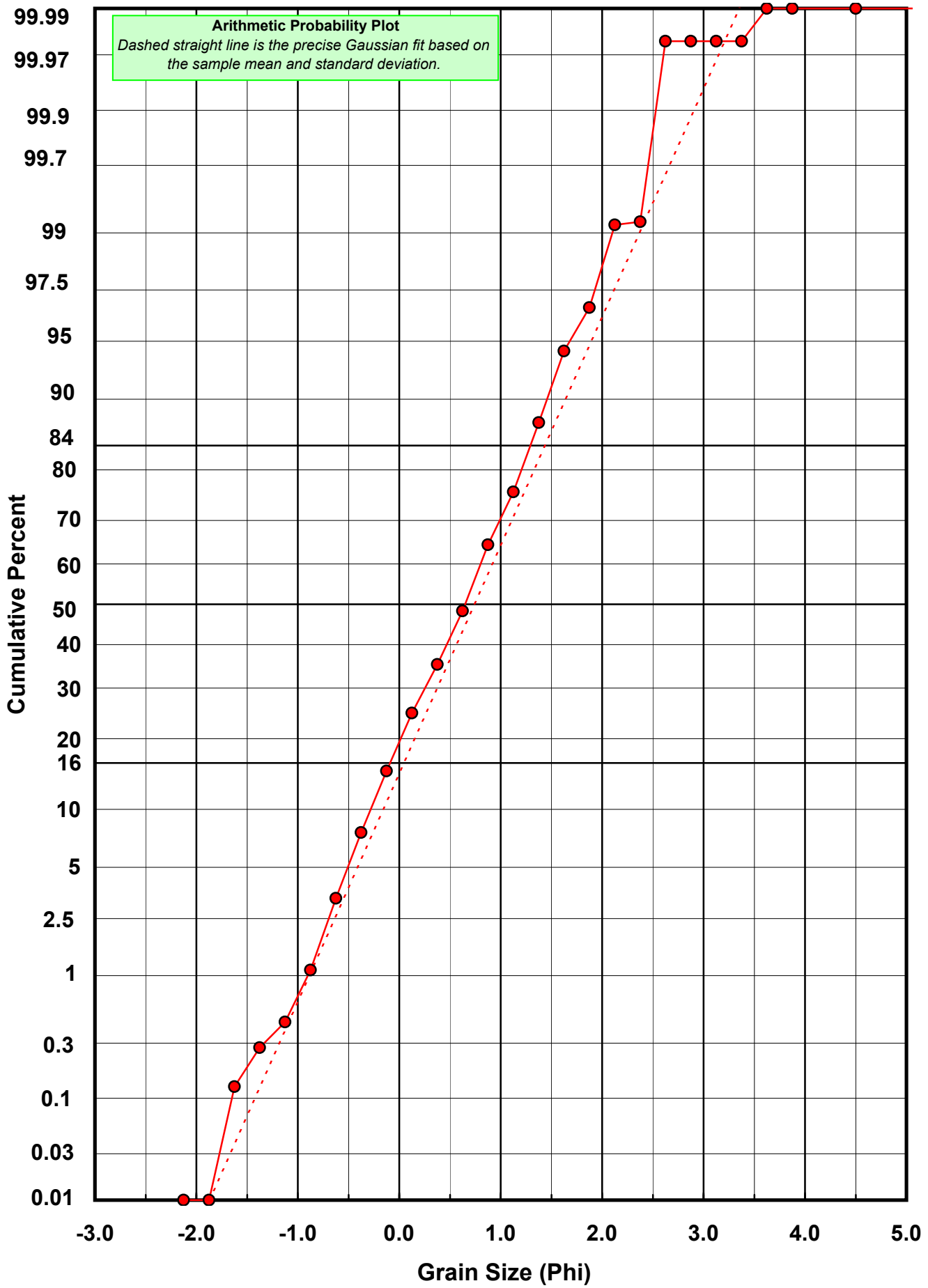
Statistical Results			
Mean:	0.7420	phi	(0.5979 mm)
Standard Dev:	0.7012	phi-units	(0.6151 mm)
Skewness:	-0.0589	dimensionless	
Kurtosis:	2.8014	dimensionless	
5th Moment:	-0.2394	dimensionless	
6th Moment:	13.7465	dimensionless	
RARD *	0.9450	dimensionless	
Median	0.6515	phi	(0.6366 mm)

* 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-14-BB

Total Digested Mass: 62.967 grams

% Silica: 73.2 %

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	0.012	0.019	0.019
0.00	-0.125	0.059	0.094	0.113
0.25	0.125	0.150	0.238	0.351
0.50	0.375	0.457	0.726	1.077
0.75	0.625	0.920	1.461	2.538
1.00	0.875	4.140	6.575	9.113
1.25	1.125	5.027	7.984	17.096
1.50	1.375	7.541	11.976	29.072
1.75	1.625	9.576	15.208	44.280
2.00	1.875	10.934	17.365	61.645
2.25	2.125	9.489	15.070	76.715
2.50	2.375	7.680	12.197	88.912
2.75	2.625	4.736	7.521	96.433
3.00	2.875	1.694	2.690	99.123
3.25	3.125	0.392	0.623	99.746
3.50	3.375	0.114	0.181	99.927
3.75	3.625	0.037	0.059	99.986
4.00	3.875	0.009	0.014	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.8096	phi	(0.2853 mm)
Standard Dev:	0.5723	phi-units	(0.6726 mm)
Skewness:	-0.1625	dimensionless	
Kurtosis:	2.7351	dimensionless	
5th Moment:	-1.2608	dimensionless	
6th Moment:	12.6540	dimensionless	
RARD *	0.3162	dimensionless	
Median	1.7073	phi	(0.3062 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)

