

Onshore Grab Sample

Sample: FG-16-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Flagler
Latitude: 29° 28' 38.1"
Longitude: 81° 07' 30.8"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 88.754 grams
Total Fines in Sample 0.806 grams
Total Percent Fines 0.90 %

Dry Sieving Summary

Total Sample Weight 87.756 grams
Total Digested Weight 66.039 grams
Total Carbonate Weight 21.717 grams
Total Silica % 75.25 %
Total Carbonate % 24.75 %
Carbonate/Silica Ratio 0.329

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-16-SS

Total Sample Mass: 87.756 grams

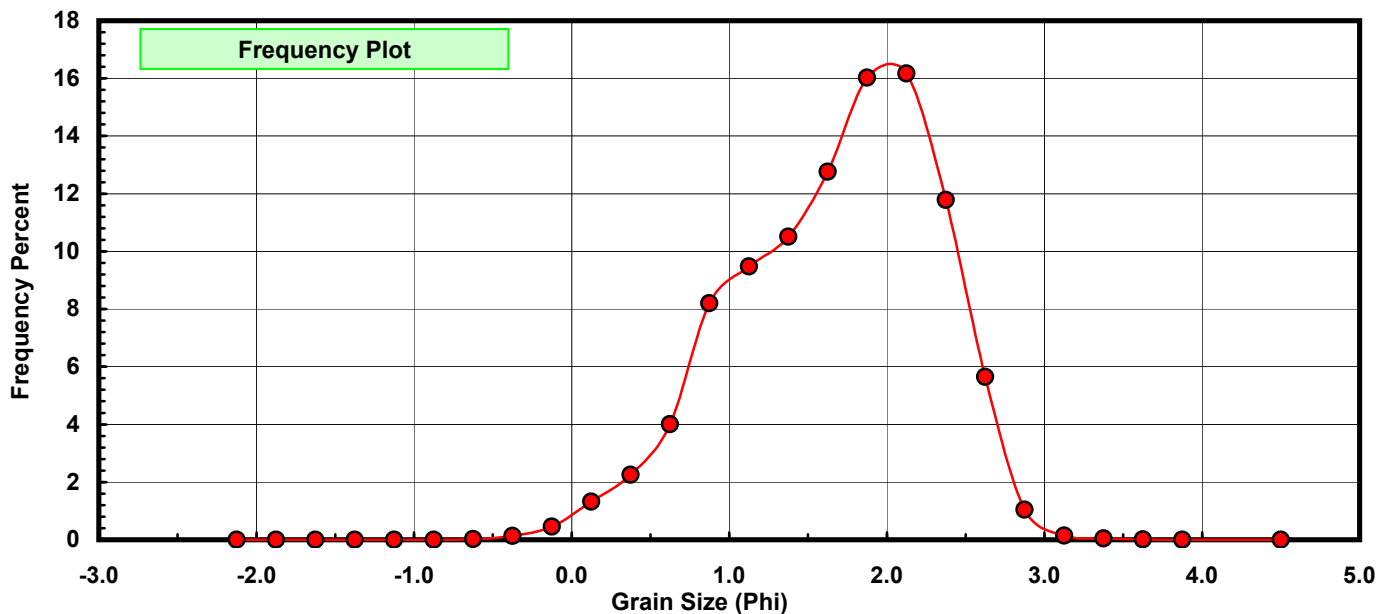
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.024	0.027	0.027
-0.25	-0.375	0.112	0.128	0.155
0.00	-0.125	0.402	0.458	0.613
0.25	0.125	1.161	1.323	1.936
0.50	0.375	1.974	2.249	4.185
0.75	0.625	3.514	4.004	8.190
1.00	0.875	7.198	8.202	16.392
1.25	1.125	8.313	9.473	25.865
1.50	1.375	9.225	10.512	36.377
1.75	1.625	11.200	12.763	49.140
2.00	1.875	14.060	16.022	65.161
2.25	2.125	14.185	16.164	81.325
2.50	2.375	10.340	11.783	93.108
2.75	2.625	4.958	5.650	98.758
3.00	2.875	0.911	1.038	99.796
3.25	3.125	0.130	0.148	99.944
3.50	3.375	0.035	0.040	99.984
3.75	3.625	0.012	0.014	99.998
4.00	3.875	0.002	0.002	100.000
5.00	4.500	0.000	0.000	100.000

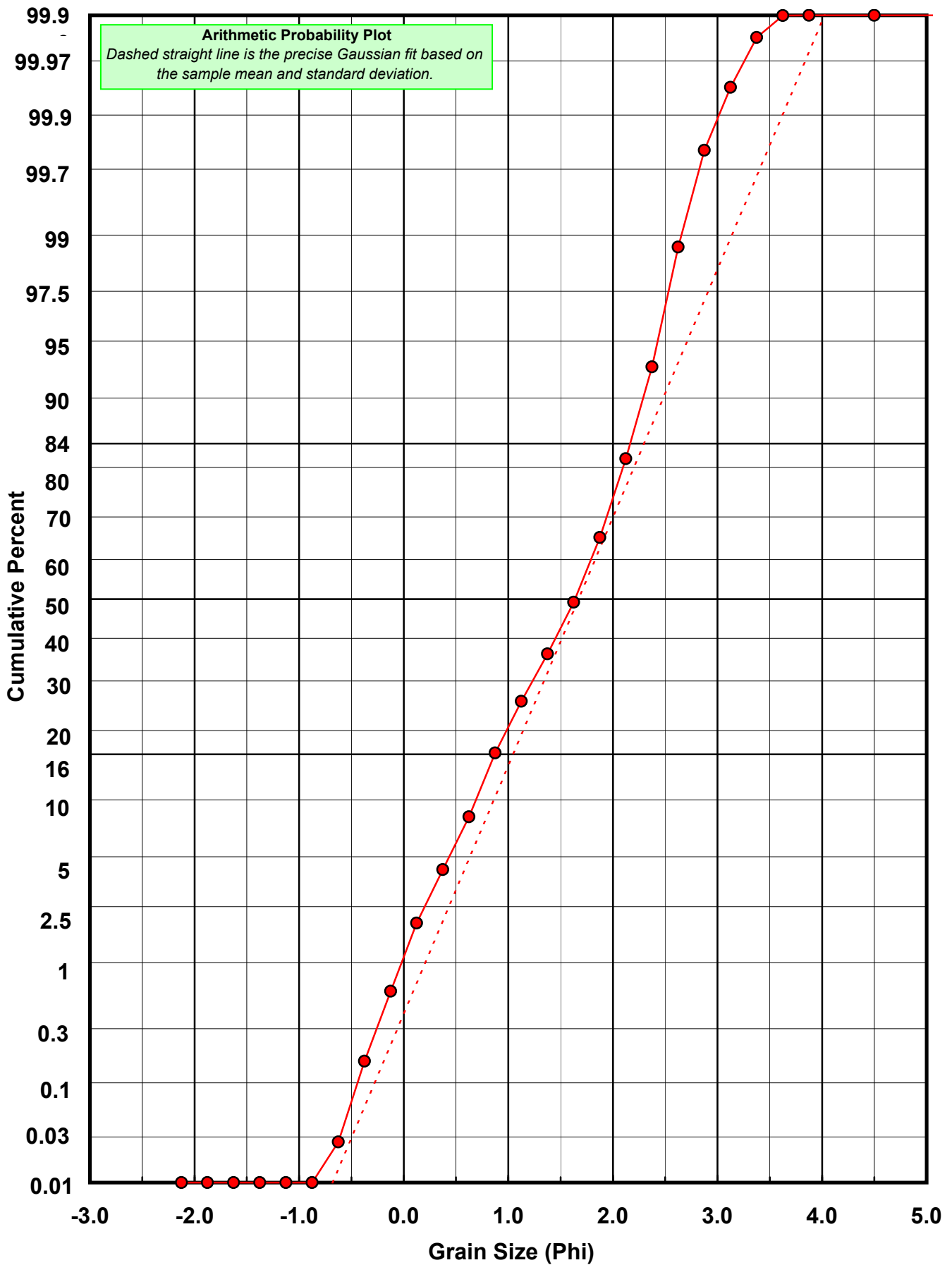
Statistical Results			
Mean:	1.6726	phi	(0.3137 mm)
Standard Dev:	0.6315	phi-units	(0.6455 mm)
Skewness:	-0.4552	dimensionless	
Kurtosis:	2.7014	dimensionless	
5th Moment:	-3.1992	dimensionless	
6th Moment:	12.4028	dimensionless	
RARD *	0.3775	dimensionless	
Median	1.6384	phi	(0.3212 mm)

* 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-16-SS

Total Carbonate Mass: 22.380 grams

% Carbonate: 24.7 %

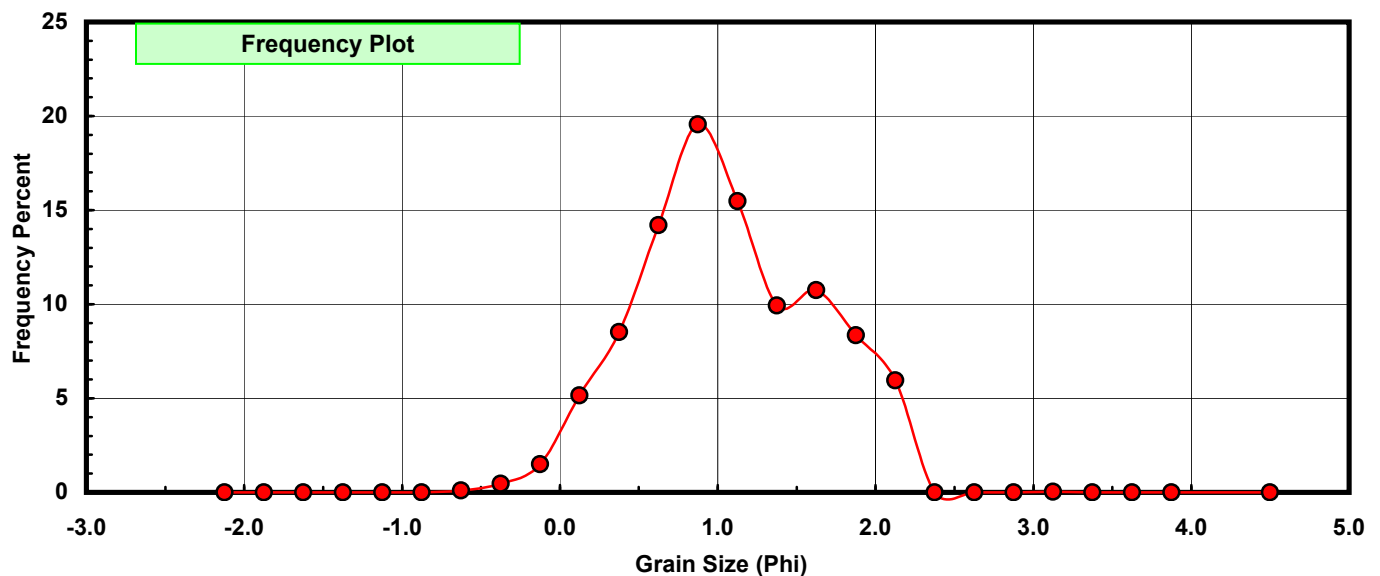
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.024	0.107	0.107
-0.25	-0.375	0.104	0.465	0.572
0.00	-0.125	0.334	1.492	2.064
0.25	0.125	1.153	5.152	7.216
0.50	0.375	1.906	8.517	15.733
0.75	0.625	3.179	14.205	29.937
1.00	0.875	4.377	19.558	49.495
1.25	1.125	3.465	15.483	64.978
1.50	1.375	2.223	9.933	74.911
1.75	1.625	2.407	10.755	85.666
2.00	1.875	1.868	8.347	94.013
2.25	2.125	1.333	5.956	99.969
2.50	2.375	0.000	0.000	99.969
2.75	2.625	0.000	0.000	99.969
3.00	2.875	0.000	0.000	99.969
3.25	3.125	0.007	0.031	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

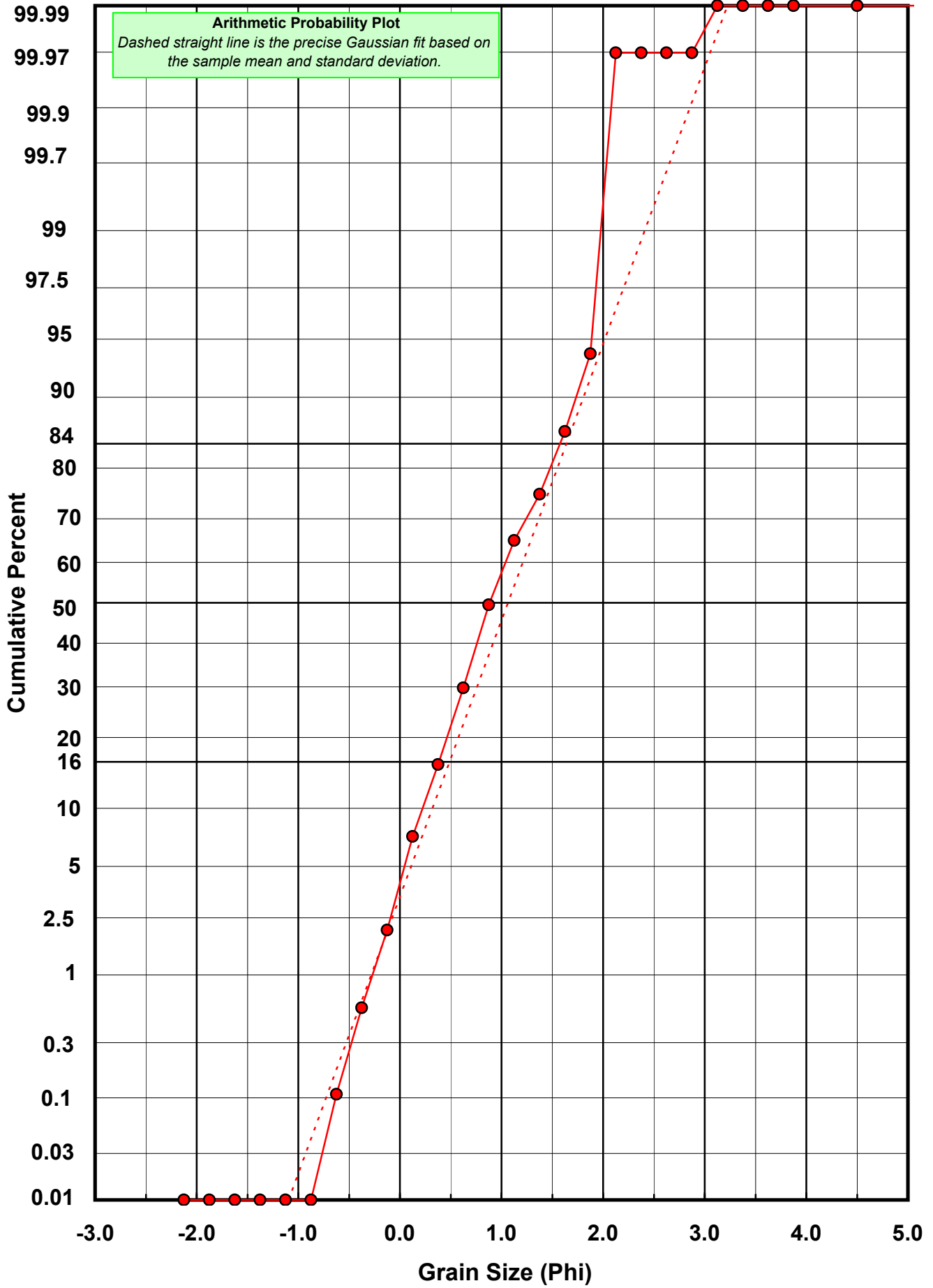
Statistical Results			
Mean:	1.0636	phi	(0.4784 mm)
Standard Dev:	0.5799	phi-units	(0.669 mm)
Skewness:	0.0690	dimensionless	
Kurtosis:	2.3327	dimensionless	
5th Moment:	-0.0684	dimensionless	
6th Moment:	7.9760	dimensionless	
RARD *	0.5453	dimensionless	
Median	0.8832	phi	(0.5422 mm)

* 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-16-SS

Total Digested Mass: 66.039 grams

% Silica: 75.3 %

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	0.008	0.012	0.012
0.00	-0.125	0.068	0.103	0.115
0.25	0.125	0.008	0.012	0.127
0.50	0.375	0.068	0.103	0.230
0.75	0.625	0.335	0.507	0.737
1.00	0.875	2.821	4.272	5.009
1.25	1.125	4.848	7.341	12.350
1.50	1.375	7.002	10.603	22.953
1.75	1.625	8.793	13.315	36.268
2.00	1.875	12.192	18.462	54.730
2.25	2.125	12.852	19.461	74.191
2.50	2.375	10.509	15.913	90.104
2.75	2.625	5.354	8.107	98.212
3.00	2.875	1.004	1.520	99.732
3.25	3.125	0.123	0.186	99.918
3.50	3.375	0.038	0.058	99.976
3.75	3.625	0.012	0.018	99.994
4.00	3.875	0.004	0.006	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.8884	phi	(0.2701 mm)
Standard Dev:	0.5056	phi-units	(0.7044 mm)
Skewness:	-0.3408	dimensionless	
Kurtosis:	2.7214	dimensionless	
5th Moment:	-2.6382	dimensionless	
6th Moment:	14.2823	dimensionless	
RARD *	0.2677	dimensionless	
Median	1.8110	phi	(0.285 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)

