

Onshore Grab Sample

Sample: SJ-27-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 53' 20.4"
Longitude: 81° 16' 27.1"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 74.713 grams
Total Fines in Sample 0.748 grams
Total Percent Fines 0.99 %

Dry Sieving Summary

Total Sample Weight 73.934 grams
Total Digested Weight 72.606 grams
Total Carbonate Weight 1.328 grams
Total Silica % 98.20 %
Total Carbonate % 1.80 %
Carbonate/Silica Ratio 0.018

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-27-SS

Total Sample Mass: 73.934 grams

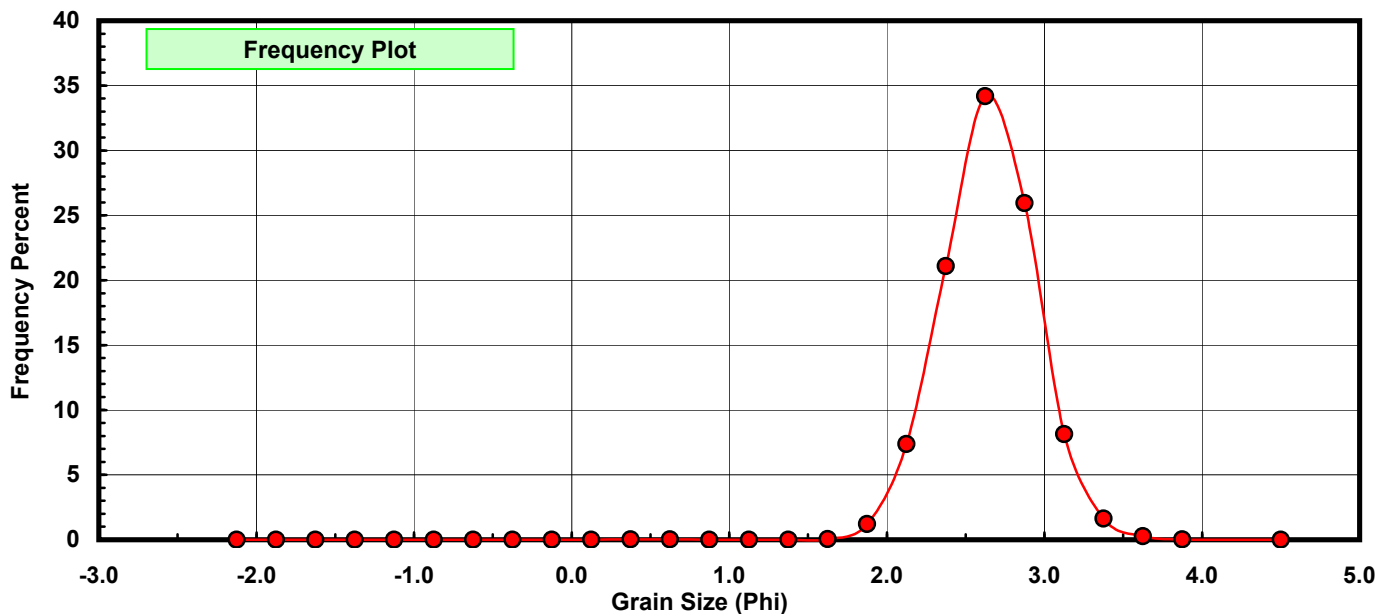
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.006	0.008	0.008
0.00	-0.125	0.006	0.008	0.016
0.25	0.125	0.009	0.012	0.028
0.50	0.375	0.014	0.019	0.047
0.75	0.625	0.011	0.015	0.062
1.00	0.875	0.004	0.005	0.068
1.25	1.125	0.005	0.007	0.074
1.50	1.375	0.007	0.009	0.084
1.75	1.625	0.043	0.058	0.142
2.00	1.875	0.895	1.211	1.353
2.25	2.125	5.457	7.381	8.733
2.50	2.375	15.593	21.090	29.824
2.75	2.625	25.268	34.176	64.000
3.00	2.875	19.179	25.941	89.941
3.25	3.125	6.013	8.133	98.074
3.50	3.375	1.207	1.633	99.706
3.75	3.625	0.193	0.261	99.968
4.00	3.875	0.020	0.027	99.995
5.00	4.500	0.004	0.005	100.000

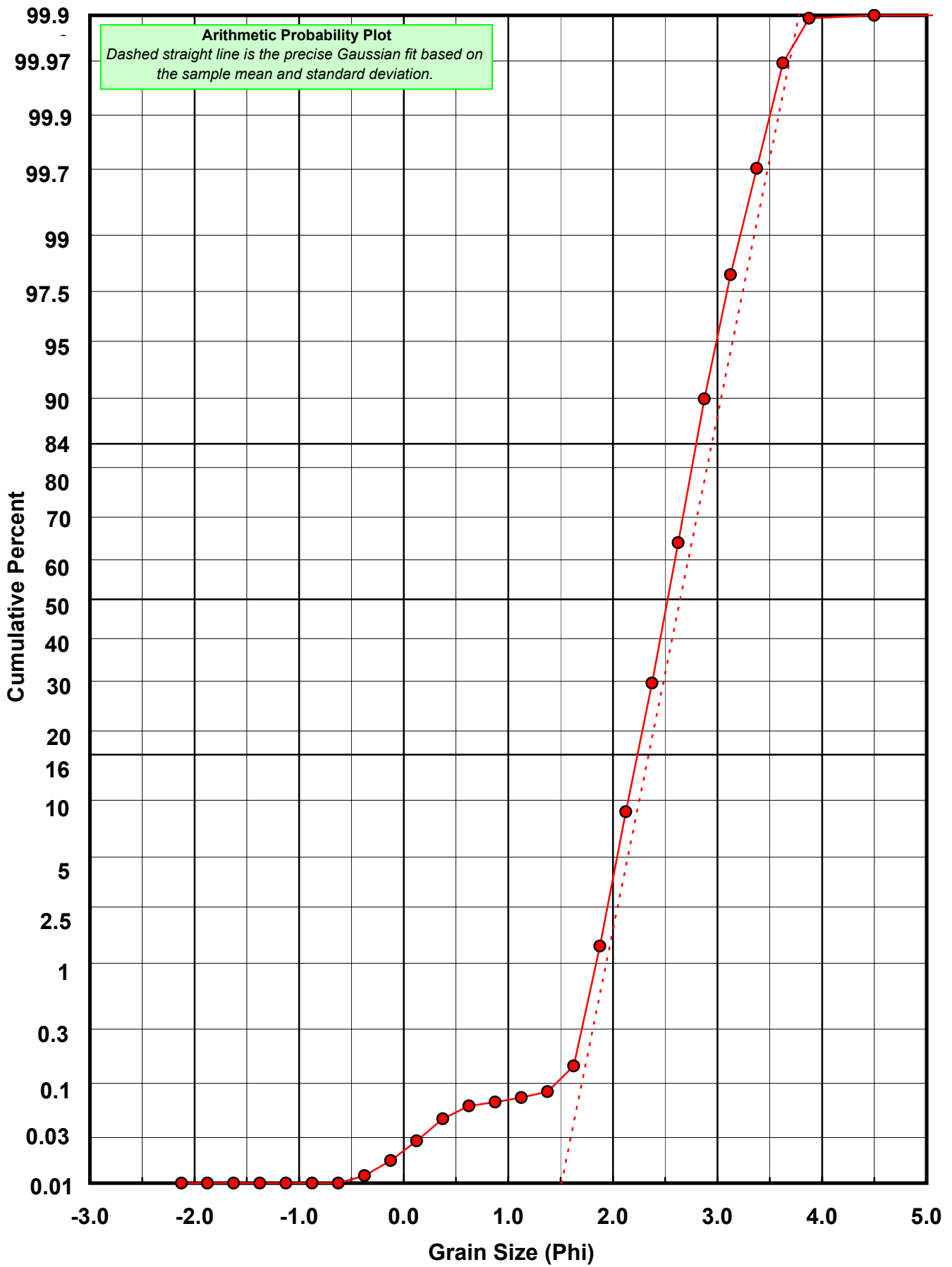
Statistical Results			
Mean:	2.6447	phi	(0.1599 mm)
Standard Dev:	0.3049	phi-units	(0.8095 mm)
Skewness:	-0.3172	dimensionless	
Kurtosis:	5.8430	dimensionless	
5th Moment:	-23.5529	dimensionless	
6th Moment:	229.4453	dimensionless	
RARD *	0.1153	dimensionless	
Median	2.5226	phi	(0.174 mm)

* 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: SJ-27-SS

Total Carbonate Mass: 2.453 grams

% Carbonate: 1.8 %

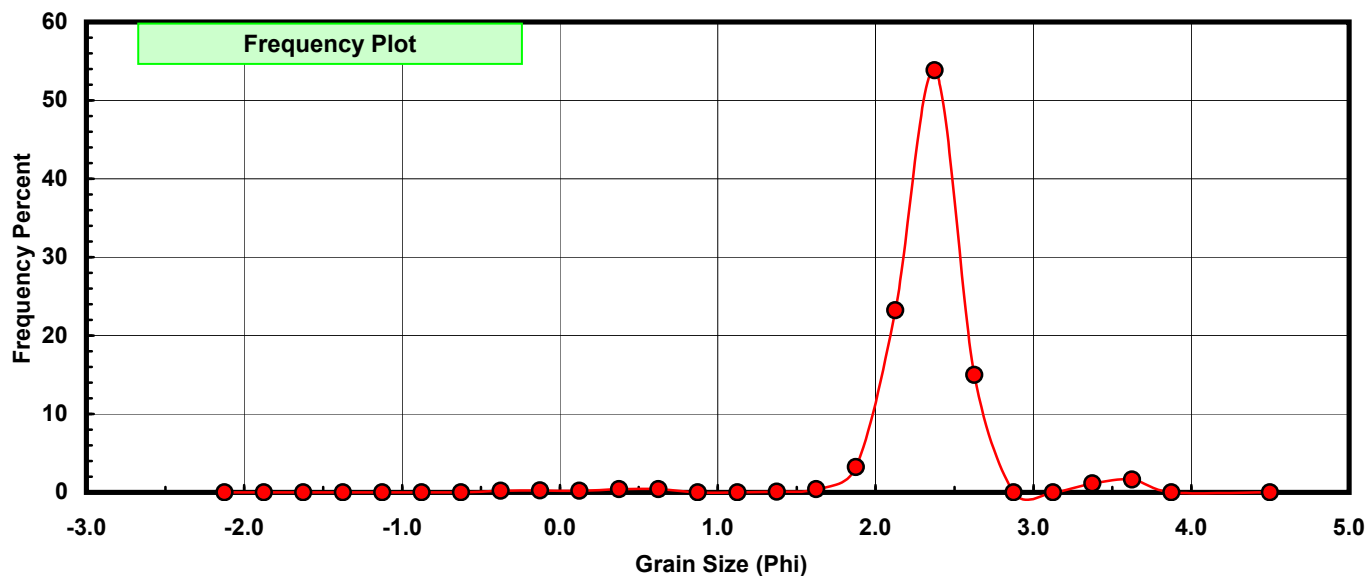
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.005	0.204	0.204
0.00	-0.125	0.006	0.245	0.448
0.25	0.125	0.005	0.204	0.652
0.50	0.375	0.010	0.408	1.060
0.75	0.625	0.010	0.408	1.468
1.00	0.875	0.000	0.000	1.468
1.25	1.125	0.000	0.000	1.468
1.50	1.375	0.002	0.082	1.549
1.75	1.625	0.010	0.408	1.957
2.00	1.875	0.079	3.221	5.177
2.25	2.125	0.570	23.237	28.414
2.50	2.375	1.321	53.852	82.267
2.75	2.625	0.367	14.961	97.228
3.00	2.875	0.000	0.000	97.228
3.25	3.125	0.000	0.000	97.228
3.50	3.375	0.028	1.141	98.369
3.75	3.625	0.040	1.631	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

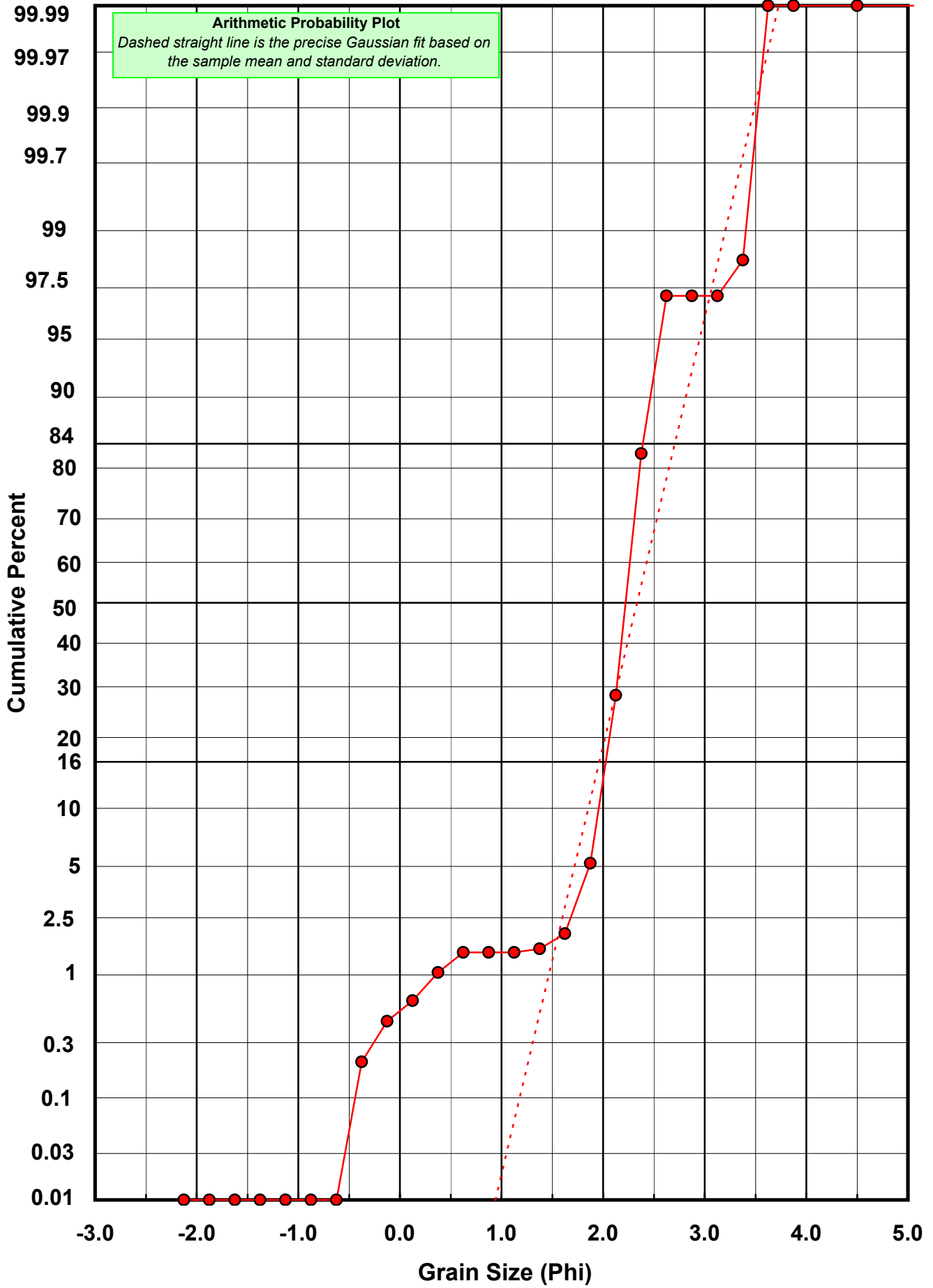
Statistical Results			
Mean:	2.3345	phi	(0.1983 mm)
Standard Dev:	0.3743	phi-units	(0.7715 mm)
Skewness:	-2.0176	dimensionless	
Kurtosis:	20.6918	dimensionless	
5th Moment:	-99.6377	dimensionless	
6th Moment:	730.5869	dimensionless	
RARD *	0.1603	dimensionless	
Median	2.2252	phi	(0.2139 mm)

* 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: SJ-27-SS

Total Digested Mass: 72.599 grams

% Silica: 98.2 %

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	0.001	0.001	0.001
0.00	-0.125	0.000	0.000	0.001
0.25	0.125	0.004	0.006	0.007
0.50	0.375	0.004	0.006	0.012
0.75	0.625	0.001	0.001	0.014
1.00	0.875	0.011	0.015	0.029
1.25	1.125	0.008	0.011	0.040
1.50	1.375	0.005	0.007	0.047
1.75	1.625	0.033	0.045	0.092
2.00	1.875	0.816	1.124	1.216
2.25	2.125	4.887	6.731	7.948
2.50	2.375	14.272	19.659	27.606
2.75	2.625	24.901	34.299	61.906
3.00	2.875	19.769	27.230	89.136
3.25	3.125	6.528	8.992	98.128
3.50	3.375	1.179	1.624	99.752
3.75	3.625	0.153	0.211	99.963
4.00	3.875	0.027	0.037	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6603	phi	(0.1582 mm)
Standard Dev:	0.2980	phi-units	(0.8134 mm)
Skewness:	-0.1570	dimensionless	
Kurtosis:	3.9582	dimensionless	
5th Moment:	-7.1338	dimensionless	
6th Moment:	74.9104	dimensionless	
RARD *	0.1120	dimensionless	
Median	2.5382	phi	(0.1722 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)

