

Onshore Grab Sample

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

County: St. Johns
Latitude: 29° 53' 20.1"
Longitude: 81° 16' 29.1"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 44.191 grams
Total Fines in Sample 0.100 grams
Total Percent Fines 0.23 %

Dry Sieving Summary

Total Sample Weight 43.947 grams
Total Digested Weight 43.020 grams
Total Carbonate Weight 0.927 grams
Total Silica % 97.89 %
Total Carbonate % 2.11 %
Carbonate/Silica Ratio 0.022

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-27-BB

Total Sample Mass: 43.947 grams

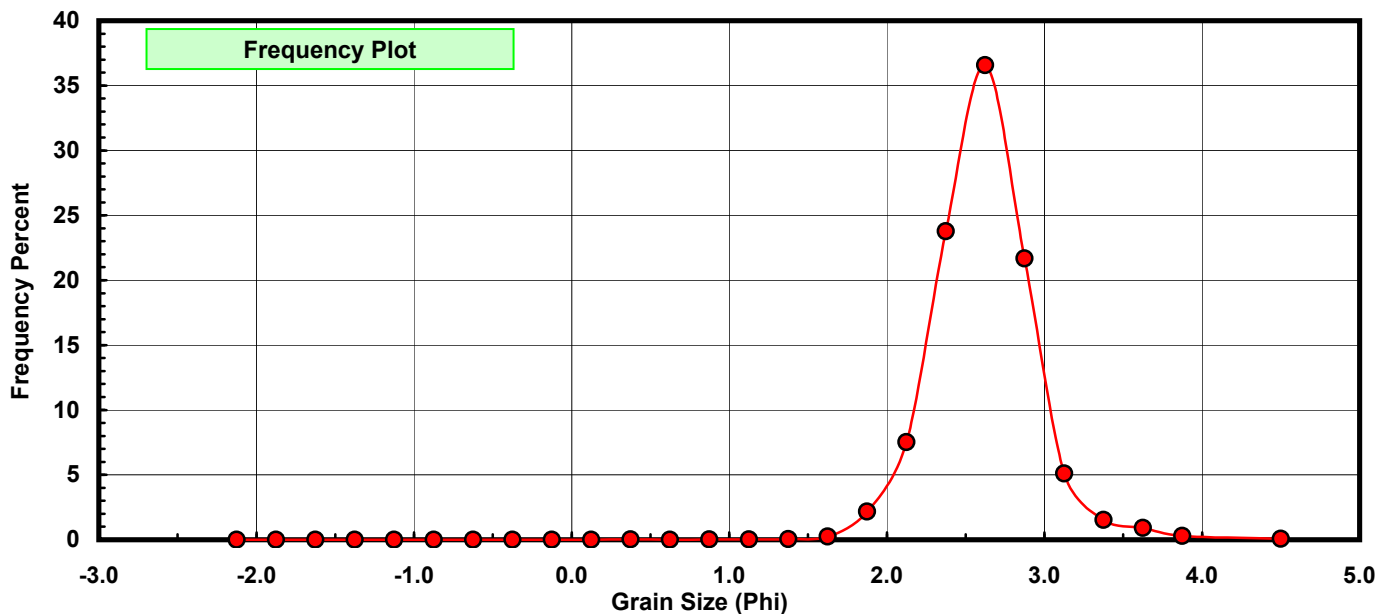
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.004	0.009	0.009
0.00	-0.125	0.002	0.005	0.014
0.25	0.125	0.004	0.009	0.023
0.50	0.375	0.006	0.014	0.036
0.75	0.625	0.002	0.005	0.041
1.00	0.875	0.008	0.018	0.059
1.25	1.125	0.010	0.023	0.082
1.50	1.375	0.020	0.046	0.127
1.75	1.625	0.110	0.250	0.378
2.00	1.875	0.952	2.166	2.544
2.25	2.125	3.307	7.525	10.069
2.50	2.375	10.446	23.770	33.838
2.75	2.625	16.077	36.583	70.421
3.00	2.875	9.524	21.672	92.093
3.25	3.125	2.244	5.106	97.199
3.50	3.375	0.671	1.527	98.726
3.75	3.625	0.400	0.910	99.636
4.00	3.875	0.130	0.296	99.932
5.00	4.500	0.030	0.068	100.000

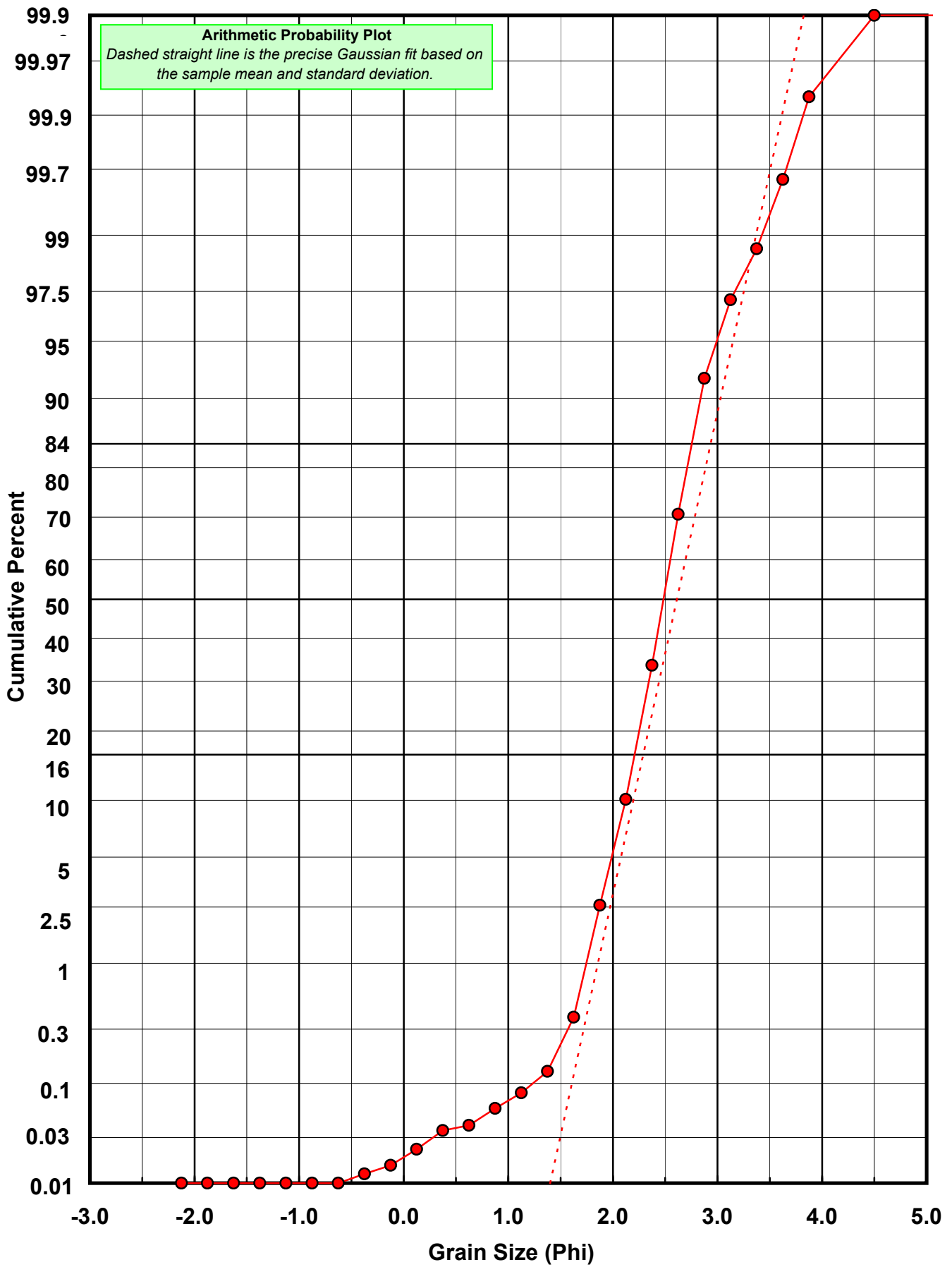
Statistical Results			
Mean:	2.6122	phi	(0.1636 mm)
Standard Dev:	0.3256	phi-units	(0.798 mm)
Skewness:	0.1611	dimensionless	
Kurtosis:	6.4211	dimensionless	
5th Moment:	-5.5745	dimensionless	
6th Moment:	170.0039	dimensionless	
RARD *	0.1246	dimensionless	
Median	2.4854	phi	(0.1786 mm)

* 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-BB

Total Carbonate Mass: 1.253 grams

% Carbonate: 2.1 %

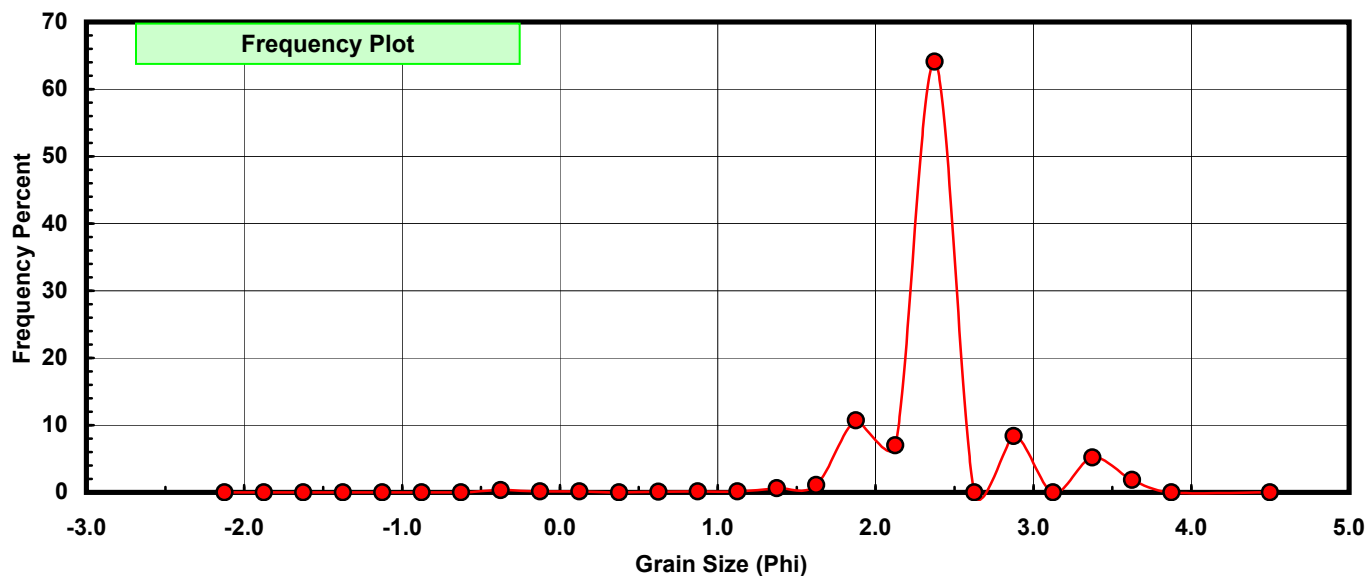
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.004	0.319	0.319
0.00	-0.125	0.002	0.160	0.479
0.25	0.125	0.002	0.160	0.638
0.50	0.375	0.000	0.000	0.638
0.75	0.625	0.001	0.080	0.718
1.00	0.875	0.002	0.160	0.878
1.25	1.125	0.002	0.160	1.038
1.50	1.375	0.008	0.638	1.676
1.75	1.625	0.014	1.117	2.793
2.00	1.875	0.134	10.694	13.488
2.25	2.125	0.088	7.023	20.511
2.50	2.375	0.803	64.086	84.597
2.75	2.625	0.000	0.000	84.597
3.00	2.875	0.105	8.380	92.977
3.25	3.125	0.000	0.000	92.977
3.50	3.375	0.065	5.188	98.164
3.75	3.625	0.023	1.836	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

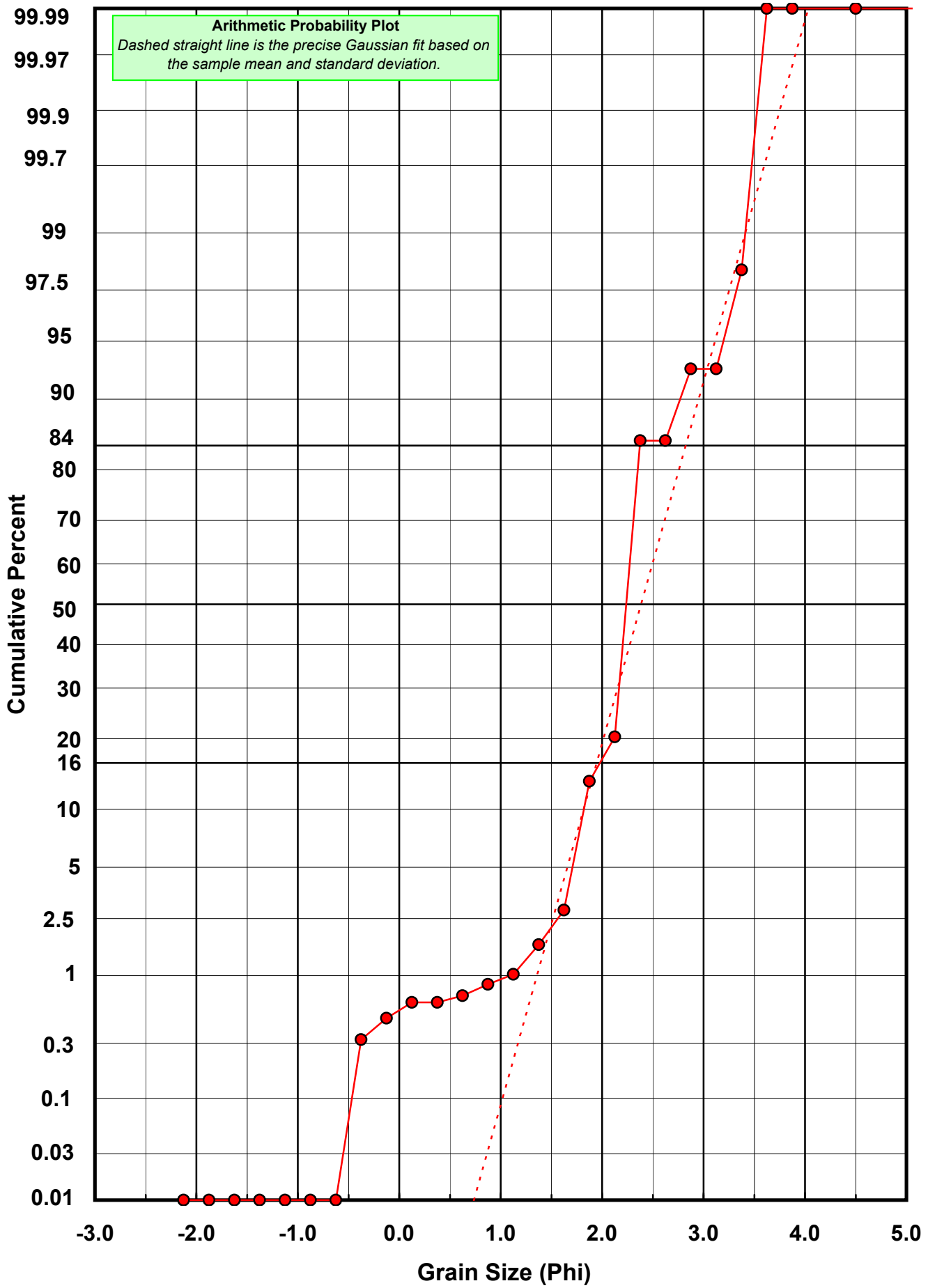
Statistical Results			
Mean:	2.3838	phi	(0.1916 mm)
Standard Dev:	0.4427	phi-units	(0.7358 mm)
Skewness:	-0.6320	dimensionless	
Kurtosis:	11.0928	dimensionless	
5th Moment:	-41.2233	dimensionless	
6th Moment:	291.6489	dimensionless	
RARD *	0.1857	dimensionless	
Median	2.2400	phi	(0.2117 mm)

* 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-BB

Total Digested Mass: 42.992 grams

% Silica: 97.9 %

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	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.002	0.005	0.005
0.50	0.375	0.006	0.014	0.019
0.75	0.625	0.001	0.002	0.021
1.00	0.875	0.006	0.014	0.035
1.25	1.125	0.008	0.019	0.053
1.50	1.375	0.012	0.028	0.081
1.75	1.625	0.096	0.223	0.305
2.00	1.875	0.818	1.903	2.207
2.25	2.125	3.219	7.487	9.695
2.50	2.375	9.643	22.430	32.125
2.75	2.625	16.337	38.000	70.125
3.00	2.875	9.419	21.909	92.033
3.25	3.125	2.303	5.357	97.390
3.50	3.375	0.606	1.410	98.800
3.75	3.625	0.377	0.877	99.677
4.00	3.875	0.139	0.323	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6186	phi	(0.1628 mm)
Standard Dev:	0.3149	phi-units	(0.8039 mm)
Skewness:	0.1794	dimensionless	
Kurtosis:	4.9943	dimensionless	
5th Moment:	-0.5922	dimensionless	
6th Moment:	72.9007	dimensionless	
RARD *	0.1202	dimensionless	
Median	2.4926	phi	(0.1777 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)

