

**Onshore Grab Sample**

**Sample:** SJ-04-BB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/2/03  
**Splits?** N/A

**County:** St. Johns  
**Latitude:** 30° 12' 49.9"  
**Longitude:** 81° 22' 12.4"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 75.141 grams  
Total Fines in Sample 0.204 grams  
Total Percent Fines 0.27 %

**Dry Sieving Summary**

Total Sample Weight 75.174 grams  
Total Digested Weight 72.894 grams  
Total Carbonate Weight 2.280 grams  
Total Silica % 96.97 %  
Total Carbonate % 3.03 %  
Carbonate/Silica Ratio 0.031

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-04-BB

Total Sample Mass: 75.174 grams

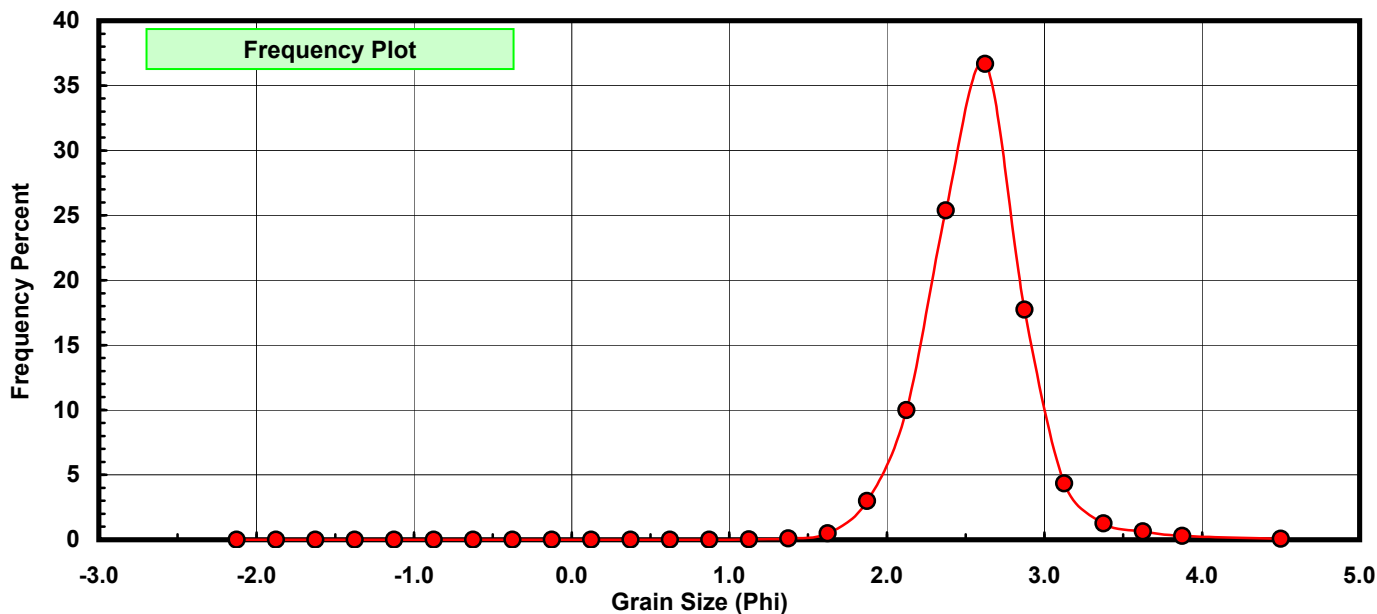
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.003	0.004	0.004
0.25	0.125	0.004	0.005	0.009
0.50	0.375	0.005	0.007	0.016
0.75	0.625	0.003	0.004	0.020
1.00	0.875	0.004	0.005	0.025
1.25	1.125	0.015	0.020	0.045
1.50	1.375	0.069	0.092	0.137
1.75	1.625	0.376	0.500	0.637
2.00	1.875	2.248	2.990	3.628
2.25	2.125	7.505	9.984	13.611
2.50	2.375	19.067	25.364	38.975
2.75	2.625	27.569	36.674	75.648
3.00	2.875	13.334	17.738	93.386
3.25	3.125	3.272	4.353	97.739
3.50	3.375	0.939	1.249	98.988
3.75	3.625	0.484	0.644	99.632
4.00	3.875	0.214	0.285	99.916
5.00	4.500	0.063	0.084	100.000

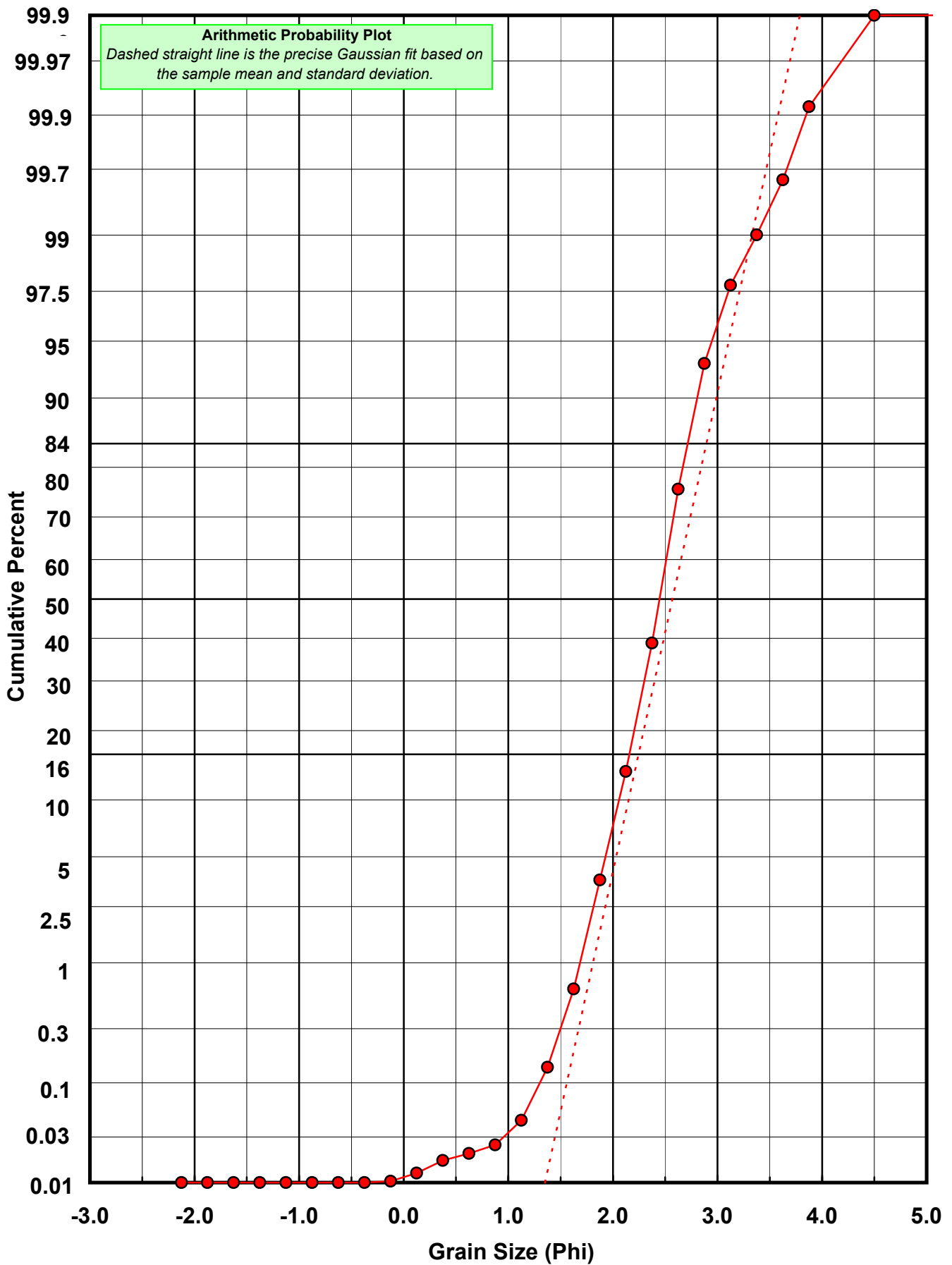
Statistical Results			
Mean:	2.5693	phi	(0.1685 mm)
Standard Dev:	0.3270	phi-units	(0.7972 mm)
Skewness:	0.2686	dimensionless	
Kurtosis:	5.6127	dimensionless	
5th Moment:	5.2423	dimensionless	
6th Moment:	100.1314	dimensionless	
RARD *	0.1273	dimensionless	
Median	2.4502	phi	(0.183 mm)

\* 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-04-BB

Total Carbonate Mass: 2.479 grams

% Carbonate: 3.0 %

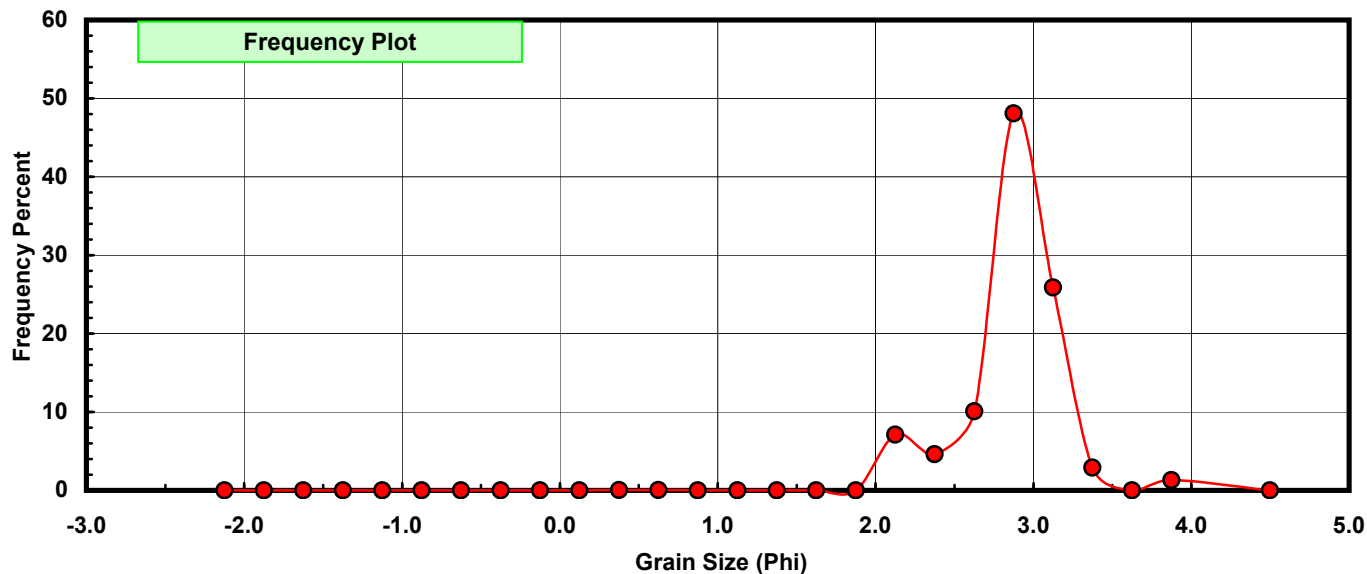
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.001	0.040	0.040
0.75	0.625	0.001	0.040	0.081
1.00	0.875	0.000	0.000	0.081
1.25	1.125	0.000	0.000	0.081
1.50	1.375	0.000	0.000	0.081
1.75	1.625	0.000	0.000	0.081
2.00	1.875	0.000	0.000	0.081
2.25	2.125	0.176	7.100	7.180
2.50	2.375	0.114	4.599	11.779
2.75	2.625	0.250	10.085	21.864
3.00	2.875	1.192	48.084	69.948
3.25	3.125	0.641	25.857	95.805
3.50	3.375	0.072	2.904	98.709
3.75	3.625	0.000	0.000	98.709
4.00	3.875	0.032	1.291	100.000
5.00	4.500	0.000	0.000	100.000

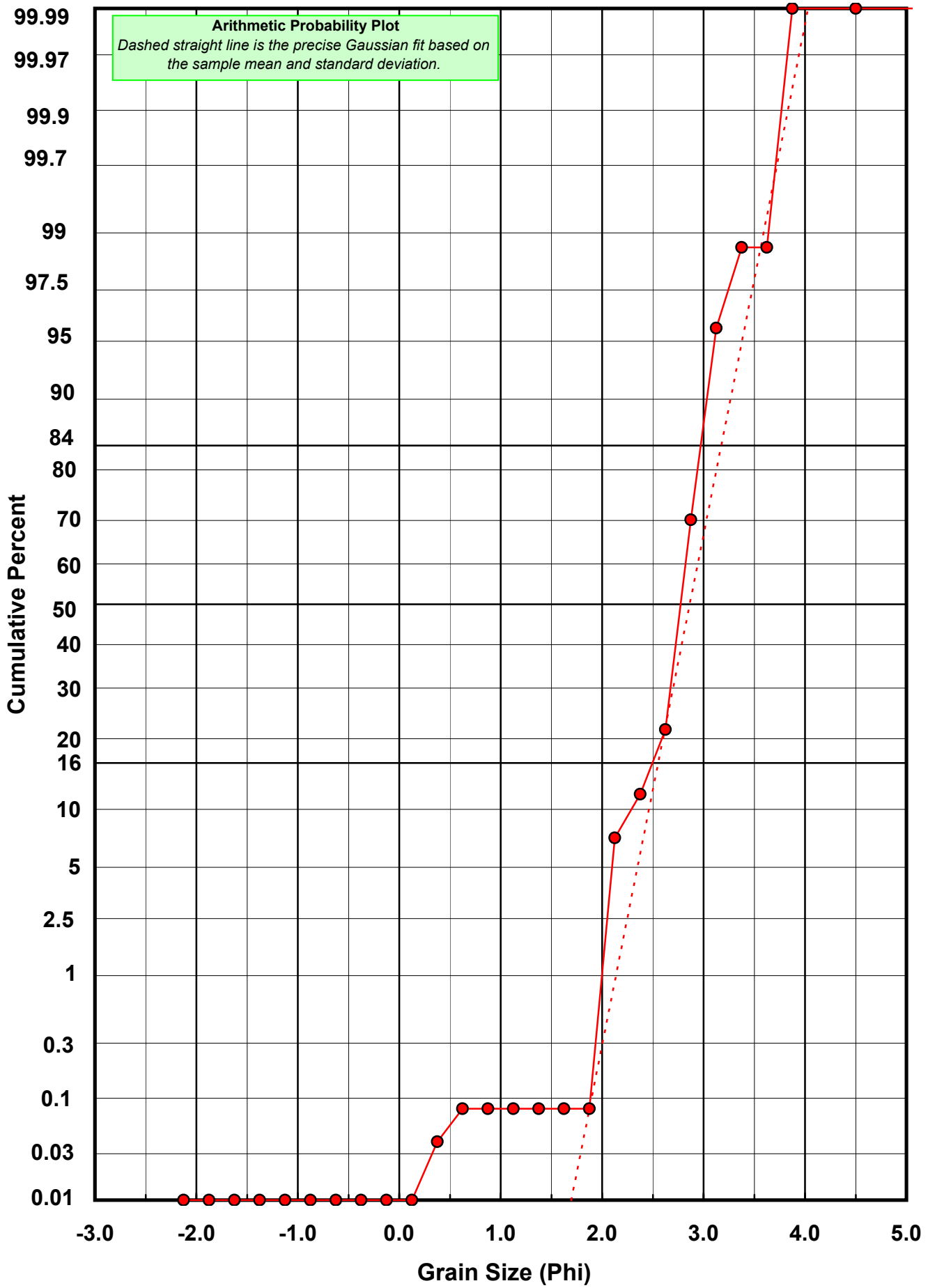
Statistical Results			
Mean:	2.8637	phi	(0.1374 mm)
Standard Dev:	0.3138	phi-units	(0.8045 mm)
Skewness:	-0.7846	dimensionless	
Kurtosis:	6.8426	dimensionless	
5th Moment:	-20.7507	dimensionless	
6th Moment:	181.2456	dimensionless	
RARD *	0.1096	dimensionless	
Median	2.7713	phi	(0.1465 mm)

\* 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-04-BB

Total Digested Mass: 72.839 grams

% Silica: 97.0 %

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	0.003	0.004	0.004
0.25	0.125	0.006	0.008	0.012
0.50	0.375	0.004	0.005	0.018
0.75	0.625	0.002	0.003	0.021
1.00	0.875	0.006	0.008	0.029
1.25	1.125	0.016	0.022	0.051
1.50	1.375	0.078	0.107	0.158
1.75	1.625	0.421	0.578	0.736
2.00	1.875	2.371	3.255	3.991
2.25	2.125	7.329	10.062	14.053
2.50	2.375	18.953	26.020	40.073
2.75	2.625	27.319	37.506	77.579
3.00	2.875	12.142	16.670	94.249
3.25	3.125	2.631	3.612	97.861
3.50	3.375	0.867	1.190	99.051
3.75	3.625	0.509	0.699	99.750
4.00	3.875	0.182	0.250	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5559	phi	(0.1701 mm)
Standard Dev:	0.3206	phi-units	(0.8007 mm)
Skewness:	0.0904	dimensionless	
Kurtosis:	5.0788	dimensionless	
5th Moment:	-1.3582	dimensionless	
6th Moment:	76.9839	dimensionless	
RARD *	0.1255	dimensionless	
Median	2.4412	phi	(0.1841 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)

