

**Onshore Grab Sample**

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

**County:** St. Johns  
**Latitude:** 30° 13' 42.4"  
**Longitude:** 81° 22' 26.3"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 72.054 grams  
Total Fines in Sample 0.929 grams  
Total Percent Fines 1.27 %

**Dry Sieving Summary**

Total Sample Weight 71.065 grams  
Total Digested Weight 69.299 grams  
Total Carbonate Weight 1.766 grams  
Total Silica % 97.51 %  
Total Carbonate % 2.49 %  
Carbonate/Silica Ratio 0.025

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-03-SS

Total Sample Mass: 71.065 grams

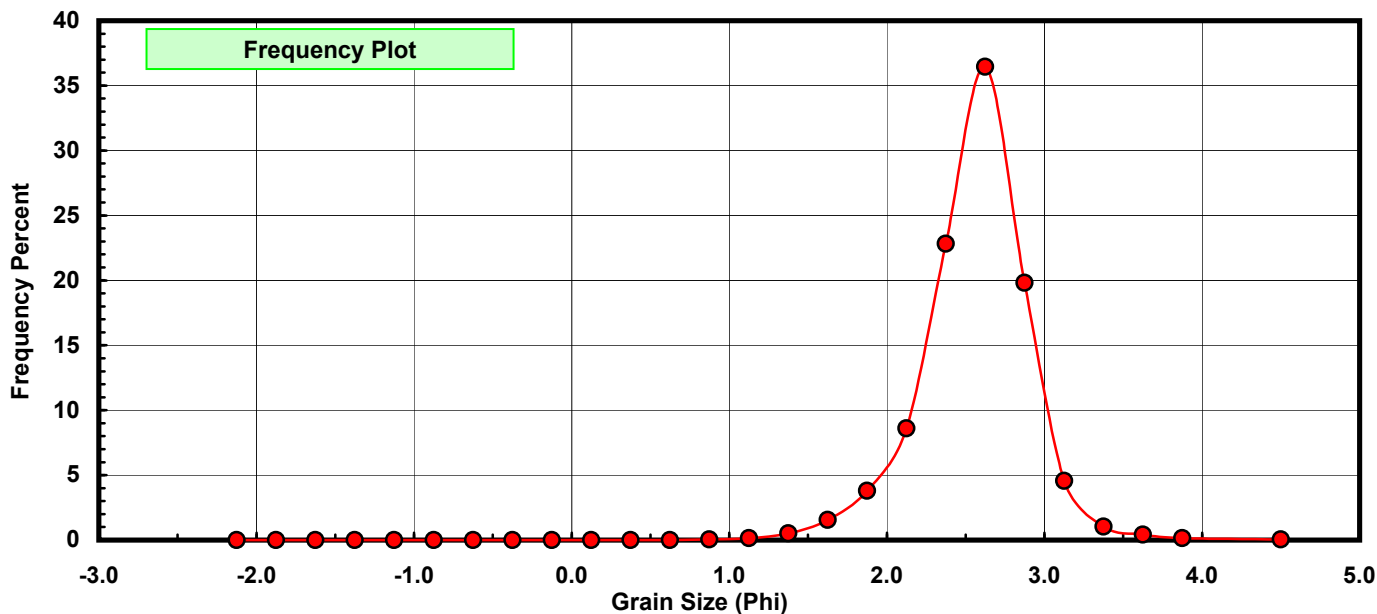
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.005	0.007	0.007
-0.25	-0.375	0.008	0.011	0.018
0.00	-0.125	0.004	0.006	0.024
0.25	0.125	0.004	0.006	0.030
0.50	0.375	0.006	0.008	0.038
0.75	0.625	0.006	0.008	0.046
1.00	0.875	0.041	0.058	0.104
1.25	1.125	0.109	0.153	0.258
1.50	1.375	0.366	0.515	0.773
1.75	1.625	1.103	1.552	2.325
2.00	1.875	2.695	3.792	6.117
2.25	2.125	6.120	8.612	14.729
2.50	2.375	16.218	22.821	37.550
2.75	2.625	25.901	36.447	73.997
3.00	2.875	14.082	19.816	93.813
3.25	3.125	3.238	4.556	98.369
3.50	3.375	0.729	1.026	99.395
3.75	3.625	0.291	0.409	99.804
4.00	3.875	0.109	0.153	99.958
5.00	4.500	0.030	0.042	100.000

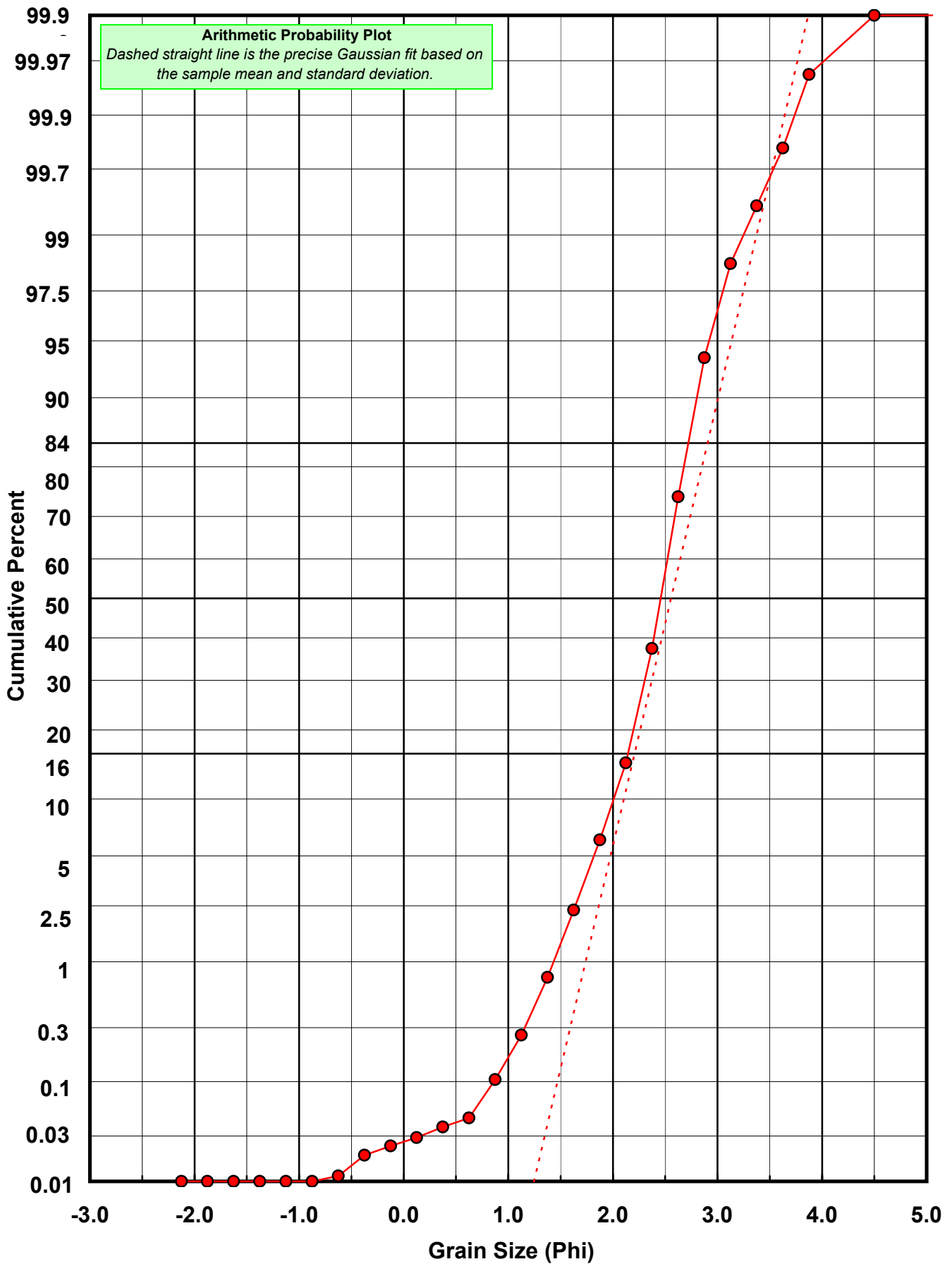
Statistical Results			
Mean:	2.5568	phi	(0.17 mm)
Standard Dev:	0.3519	phi-units	(0.7836 mm)
Skewness:	-0.5825	dimensionless	
Kurtosis:	6.2922	dimensionless	
5th Moment:	-15.5008	dimensionless	
6th Moment:	153.3840	dimensionless	
RARD *	0.1376	dimensionless	
Median	2.4604	phi	(0.1817 mm)

\* 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-03-SS

Total Carbonate Mass: 2.450 grams

% Carbonate: 2.5 %

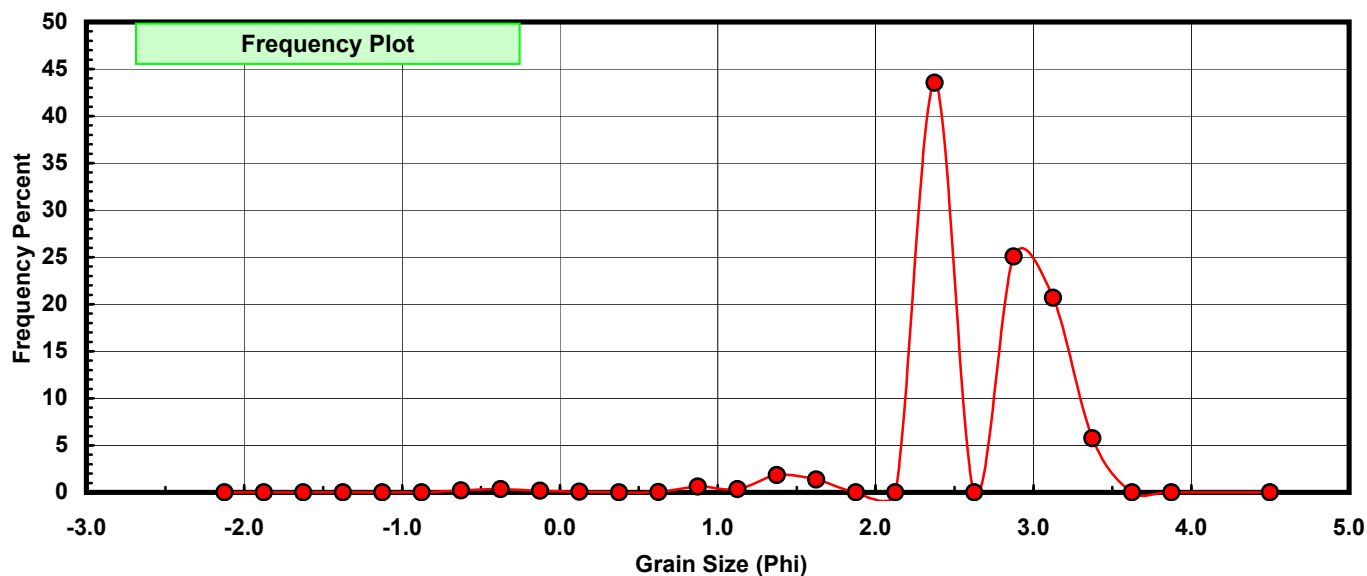
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.005	0.204	0.204
-0.25	-0.375	0.008	0.327	0.531
0.00	-0.125	0.004	0.163	0.694
0.25	0.125	0.002	0.082	0.776
0.50	0.375	0.000	0.000	0.776
0.75	0.625	0.001	0.041	0.816
1.00	0.875	0.015	0.612	1.429
1.25	1.125	0.008	0.327	1.755
1.50	1.375	0.045	1.837	3.592
1.75	1.625	0.033	1.347	4.939
2.00	1.875	0.000	0.000	4.939
2.25	2.125	0.000	0.000	4.939
2.50	2.375	1.067	43.551	48.490
2.75	2.625	0.000	0.000	48.490
3.00	2.875	0.614	25.061	73.551
3.25	3.125	0.507	20.694	94.245
3.50	3.375	0.141	5.755	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

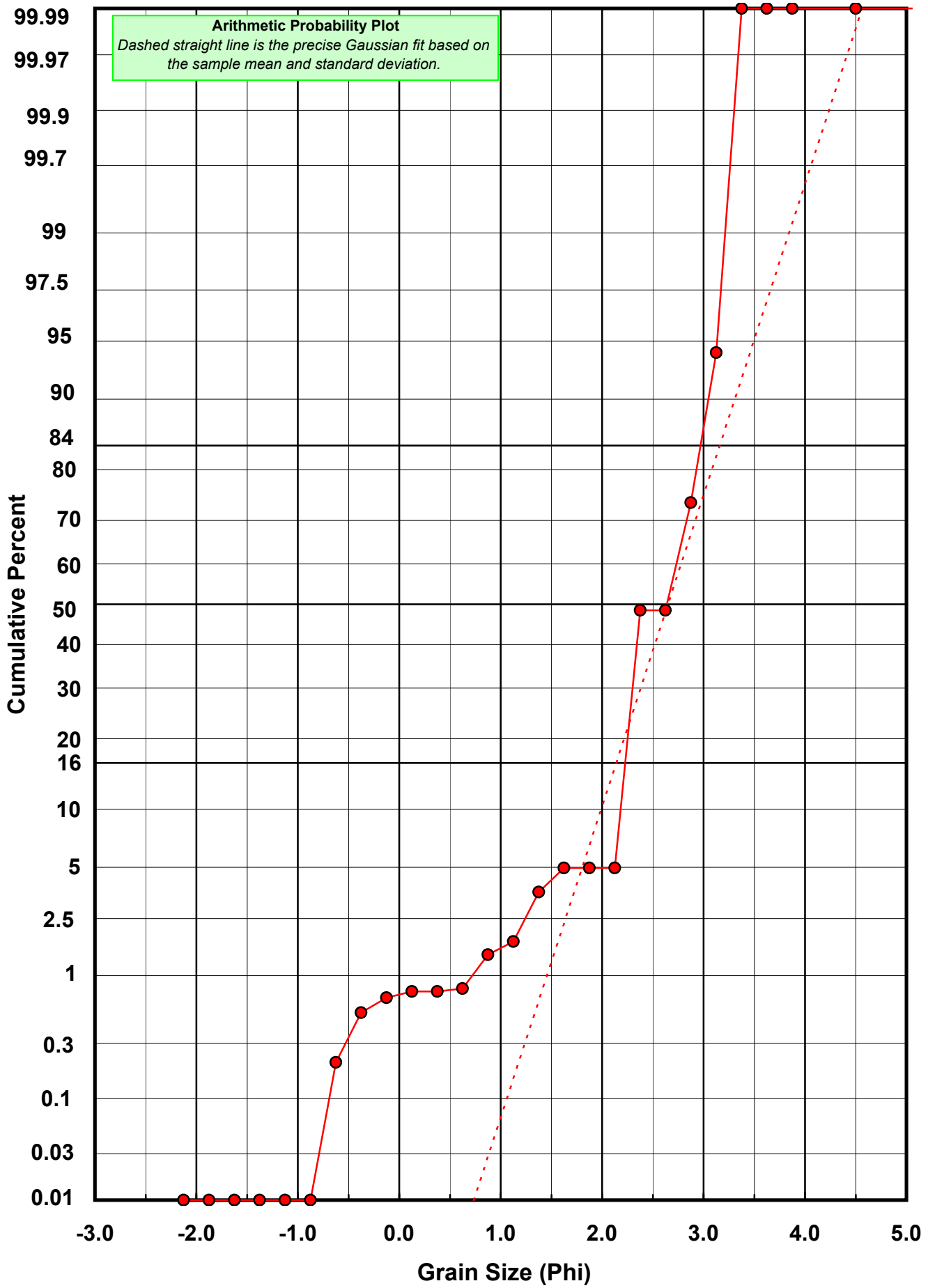
Statistical Results			
Mean:	2.6496	phi	(0.1594 mm)
Standard Dev:	0.5145	phi-units	(0.7001 mm)
Skewness:	-2.0097	dimensionless	
Kurtosis:	11.6485	dimensionless	
5th Moment:	-59.8387	dimensionless	
6th Moment:	341.8303	dimensionless	
RARD *	0.1942	dimensionless	
Median	2.6401	phi	(0.1604 mm)

\* 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-03-SS

Total Digested Mass: 69.266 grams

% Silica: 97.5 %

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	0.003	0.003
0.50	0.375	0.006	0.009	0.012
0.75	0.625	0.005	0.007	0.019
1.00	0.875	0.026	0.038	0.056
1.25	1.125	0.101	0.146	0.202
1.50	1.375	0.321	0.463	0.666
1.75	1.625	1.070	1.545	2.210
2.00	1.875	2.922	4.219	6.429
2.25	2.125	6.371	9.198	15.627
2.50	2.375	15.151	21.874	37.500
2.75	2.625	26.090	37.666	75.167
3.00	2.875	13.468	19.444	94.611
3.25	3.125	2.731	3.943	98.553
3.50	3.375	0.588	0.849	99.402
3.75	3.625	0.295	0.426	99.828
4.00	3.875	0.119	0.172	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5493	phi	(0.1708 mm)
Standard Dev:	0.3437	phi-units	(0.788 mm)
Skewness:	-0.5029	dimensionless	
Kurtosis:	4.8250	dimensionless	
5th Moment:	-6.4174	dimensionless	
6th Moment:	52.7561	dimensionless	
RARD *	0.1348	dimensionless	
Median	2.4580	phi	(0.182 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)

