

**Onshore Grab Sample**

**Sample:** SJ-33-SS  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/1/03  
**Splits?** N/A

**County:** St. Johns  
**Latitude:** 29° 48' 25.9"  
**Longitude:** 81° 15' 38.2"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 67.37 grams  
Total Fines in Sample 0.594 grams  
Total Percent Fines 0.87 %

**Dry Sieving Summary**

Total Sample Weight 66.763 grams  
Total Digested Weight 65.848 grams  
Total Carbonate Weight 0.915 grams  
Total Silica % 98.63 %  
Total Carbonate % 1.37 %  
Carbonate/Silica Ratio 0.014

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-33-SS

Total Sample Mass: 66.763 grams

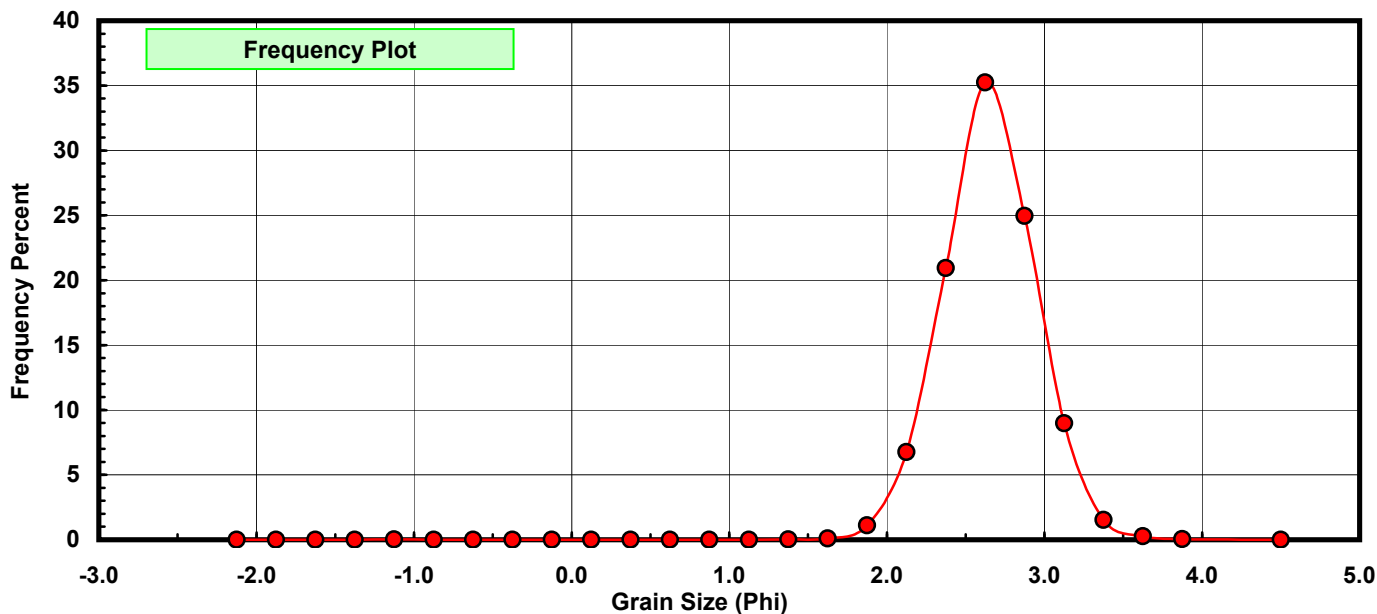
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.009	0.013	0.013
-0.75	-0.875	0.000	0.000	0.013
-0.50	-0.625	0.000	0.000	0.013
-0.25	-0.375	0.000	0.000	0.013
0.00	-0.125	0.000	0.000	0.013
0.25	0.125	0.000	0.000	0.013
0.50	0.375	0.000	0.000	0.013
0.75	0.625	0.002	0.003	0.016
1.00	0.875	0.006	0.009	0.025
1.25	1.125	0.005	0.007	0.033
1.50	1.375	0.015	0.022	0.055
1.75	1.625	0.064	0.096	0.151
2.00	1.875	0.747	1.119	1.270
2.25	2.125	4.507	6.751	8.021
2.50	2.375	13.977	20.935	28.956
2.75	2.625	23.531	35.246	64.202
3.00	2.875	16.654	24.945	89.147
3.25	3.125	5.999	8.986	98.132
3.50	3.375	1.028	1.540	99.672
3.75	3.625	0.173	0.259	99.931
4.00	3.875	0.040	0.060	99.991
5.00	4.500	0.006	0.009	100.000

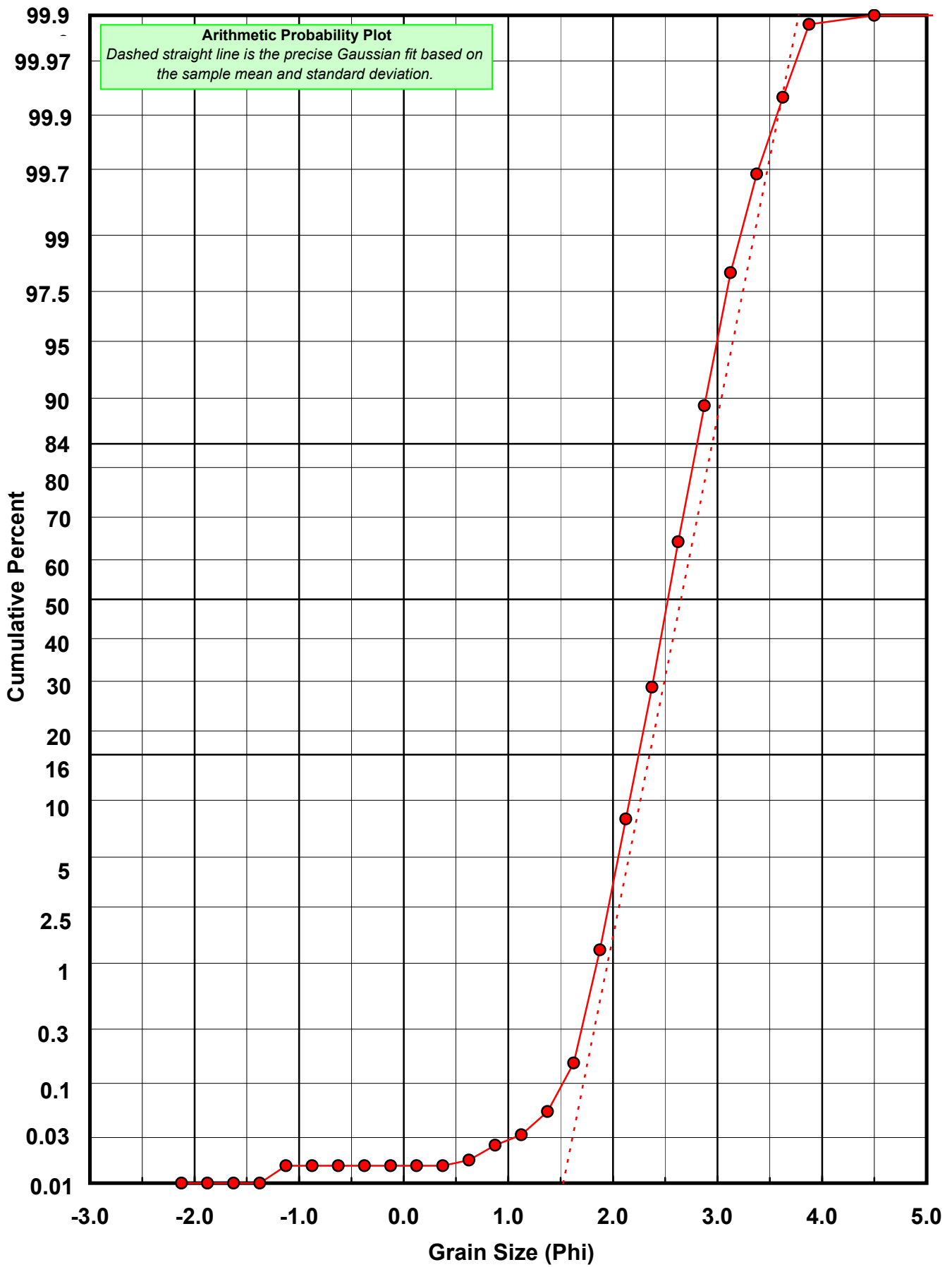
Statistical Results			
Mean:	2.6508	phi	(0.1592 mm)
Standard Dev:	0.3021	phi-units	(0.8111 mm)
Skewness:	-0.2542	dimensionless	
Kurtosis:	6.7523	dimensionless	
5th Moment:	-41.7313	dimensionless	
6th Moment:	551.9871	dimensionless	
RARD *	0.1140	dimensionless	
Median	2.5243	phi	(0.1738 mm)

\* 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-33-SS

Total Carbonate Mass: 1.307 grams

% Carbonate: 1.4 %

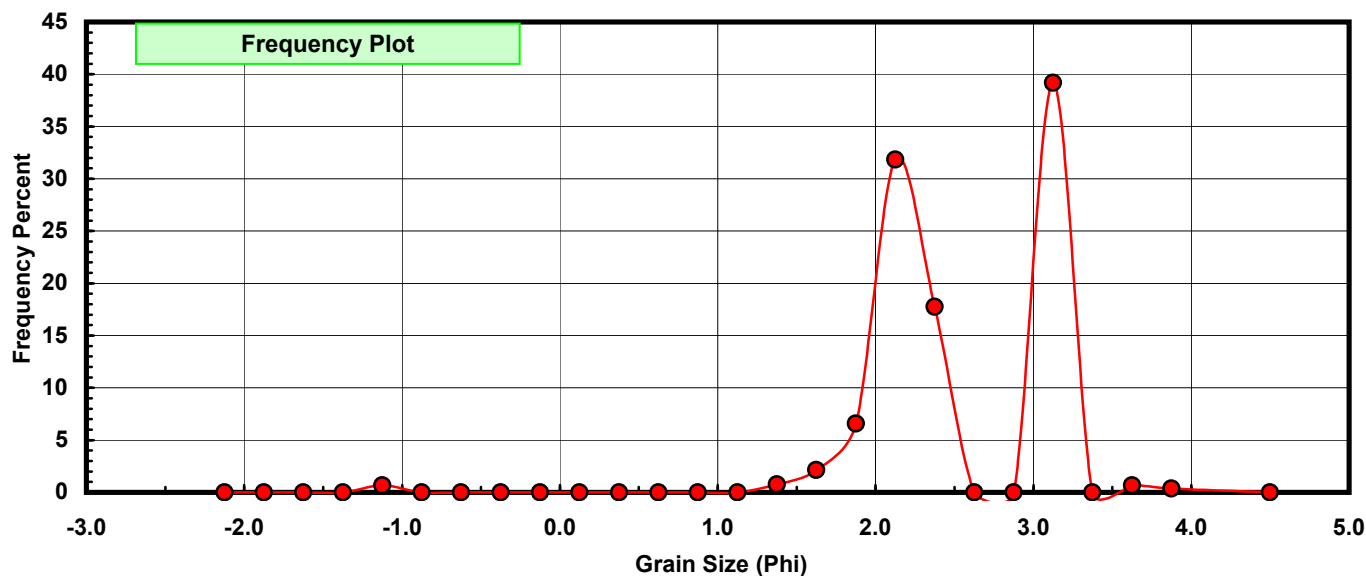
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.009	0.689	0.689
-0.75	-0.875	0.000	0.000	0.689
-0.50	-0.625	0.000	0.000	0.689
-0.25	-0.375	0.000	0.000	0.689
0.00	-0.125	0.000	0.000	0.689
0.25	0.125	0.000	0.000	0.689
0.50	0.375	0.000	0.000	0.689
0.75	0.625	0.000	0.000	0.689
1.00	0.875	0.000	0.000	0.689
1.25	1.125	0.000	0.000	0.689
1.50	1.375	0.010	0.765	1.454
1.75	1.625	0.028	2.142	3.596
2.00	1.875	0.086	6.580	10.176
2.25	2.125	0.416	31.829	42.005
2.50	2.375	0.232	17.751	59.755
2.75	2.625	0.000	0.000	59.755
3.00	2.875	0.000	0.000	59.755
3.25	3.125	0.512	39.174	98.929
3.50	3.375	0.000	0.000	98.929
3.75	3.625	0.009	0.689	99.617
4.00	3.875	0.005	0.383	100.000
5.00	4.500	0.000	0.000	100.000

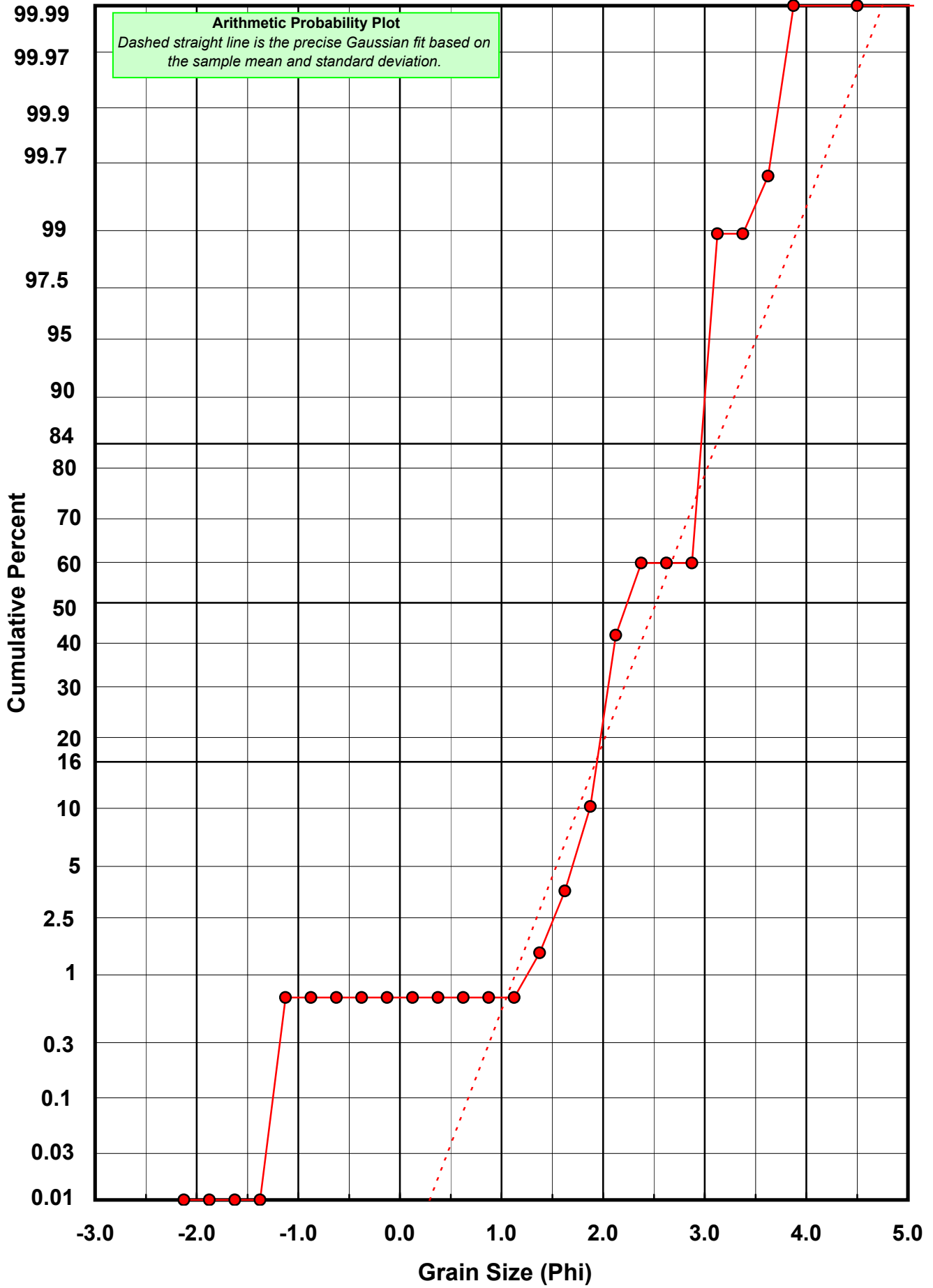
Statistical Results			
Mean:	2.5229	phi	(0.174 mm)
Standard Dev:	0.5985	phi-units	(0.6604 mm)
Skewness:	-1.3787	dimensionless	
Kurtosis:	10.4454	dimensionless	
5th Moment:	-57.6256	dimensionless	
6th Moment:	354.8138	dimensionless	
RARD *	0.2372	dimensionless	
Median	2.2376	phi	(0.212 mm)

\* 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-33-SS

Total Digested Mass: 65.839 grams

% Silica: 98.6 %

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	0.000	0.000	0.000
0.75	0.625	0.004	0.006	0.006
1.00	0.875	0.006	0.009	0.015
1.25	1.125	0.006	0.009	0.024
1.50	1.375	0.005	0.008	0.032
1.75	1.625	0.036	0.055	0.087
2.00	1.875	0.661	1.004	1.091
2.25	2.125	4.091	6.214	7.304
2.50	2.375	13.745	20.877	28.181
2.75	2.625	23.824	36.185	64.366
3.00	2.875	16.699	25.363	89.729
3.25	3.125	5.487	8.334	98.063
3.50	3.375	1.076	1.634	99.698
3.75	3.625	0.164	0.249	99.947
4.00	3.875	0.035	0.053	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6536	phi	(0.1589 mm)
Standard Dev:	0.2921	phi-units	(0.8167 mm)
Skewness:	0.0131	dimensionless	
Kurtosis:	3.5733	dimensionless	
5th Moment:	-1.0915	dimensionless	
6th Moment:	32.8163	dimensionless	
RARD *	0.1101	dimensionless	
Median	2.5257	phi	(0.1736 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)

