

**Onshore Grab Sample**

**Sample:** SJ-05-BB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/4/03  
**Splits?** N/A

**County:** St. Johns  
**Latitude:** 30° 12' 0.08"  
**Longitude:** 81° 21' 57.5"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 84.511 grams  
Total Fines in Sample 0.073 grams  
Total Percent Fines 0.09 %

**Dry Sieving Summary**

Total Sample Weight 84.396 grams  
Total Digested Weight 75.185 grams  
Total Carbonate Weight 9.211 grams  
Total Silica % 89.09 %  
Total Carbonate % 10.91 %  
Carbonate/Silica Ratio 0.123

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-05-BB

Total Sample Mass: 84.396 grams

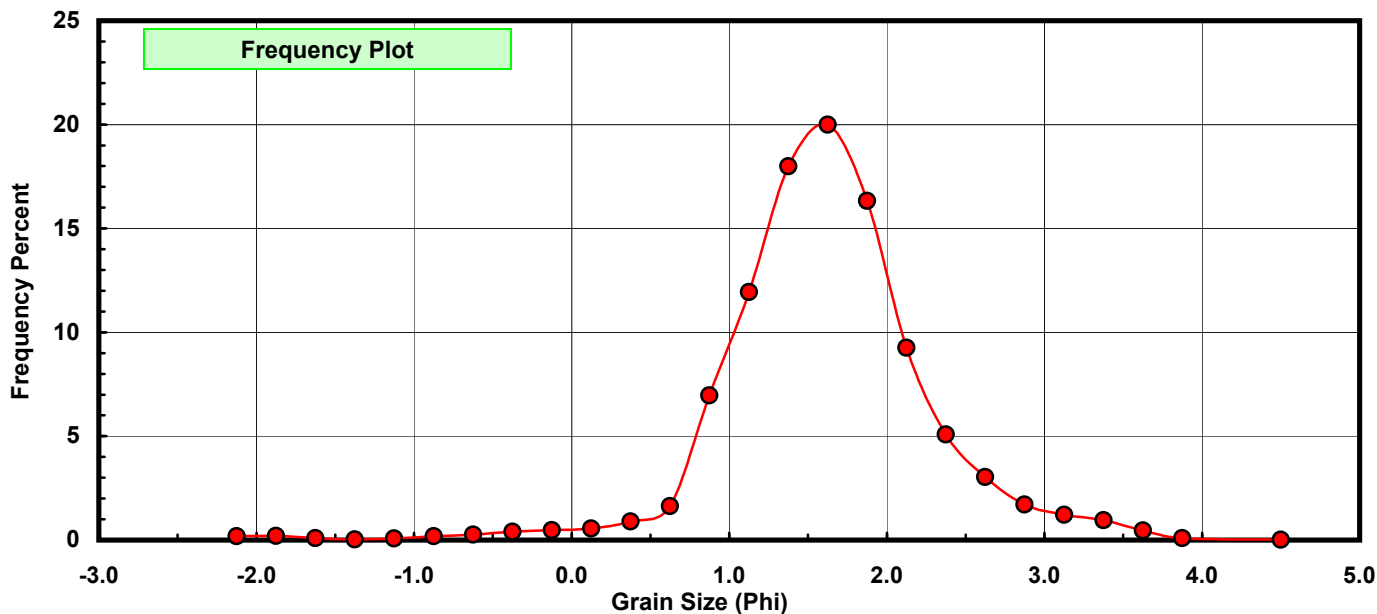
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.159	0.188	0.188
-1.75	-1.875	0.170	0.201	0.390
-1.50	-1.625	0.073	0.086	0.476
-1.25	-1.375	0.026	0.031	0.507
-1.00	-1.125	0.071	0.084	0.591
-0.75	-0.875	0.158	0.187	0.778
-0.50	-0.625	0.221	0.262	1.040
-0.25	-0.375	0.336	0.398	1.438
0.00	-0.125	0.399	0.473	1.911
0.25	0.125	0.468	0.555	2.466
0.50	0.375	0.748	0.886	3.352
0.75	0.625	1.375	1.629	4.981
1.00	0.875	5.875	6.961	11.943
1.25	1.125	10.079	11.943	23.885
1.50	1.375	15.179	17.985	41.870
1.75	1.625	16.876	19.996	61.867
2.00	1.875	13.776	16.323	78.190
2.25	2.125	7.809	9.253	87.443
2.50	2.375	4.289	5.082	92.525
2.75	2.625	2.556	3.029	95.553
3.00	2.875	1.439	1.705	97.258
3.25	3.125	1.029	1.219	98.477
3.50	3.375	0.801	0.949	99.427
3.75	3.625	0.390	0.462	99.889
4.00	3.875	0.081	0.096	99.985
5.00	4.500	0.013	0.015	100.000

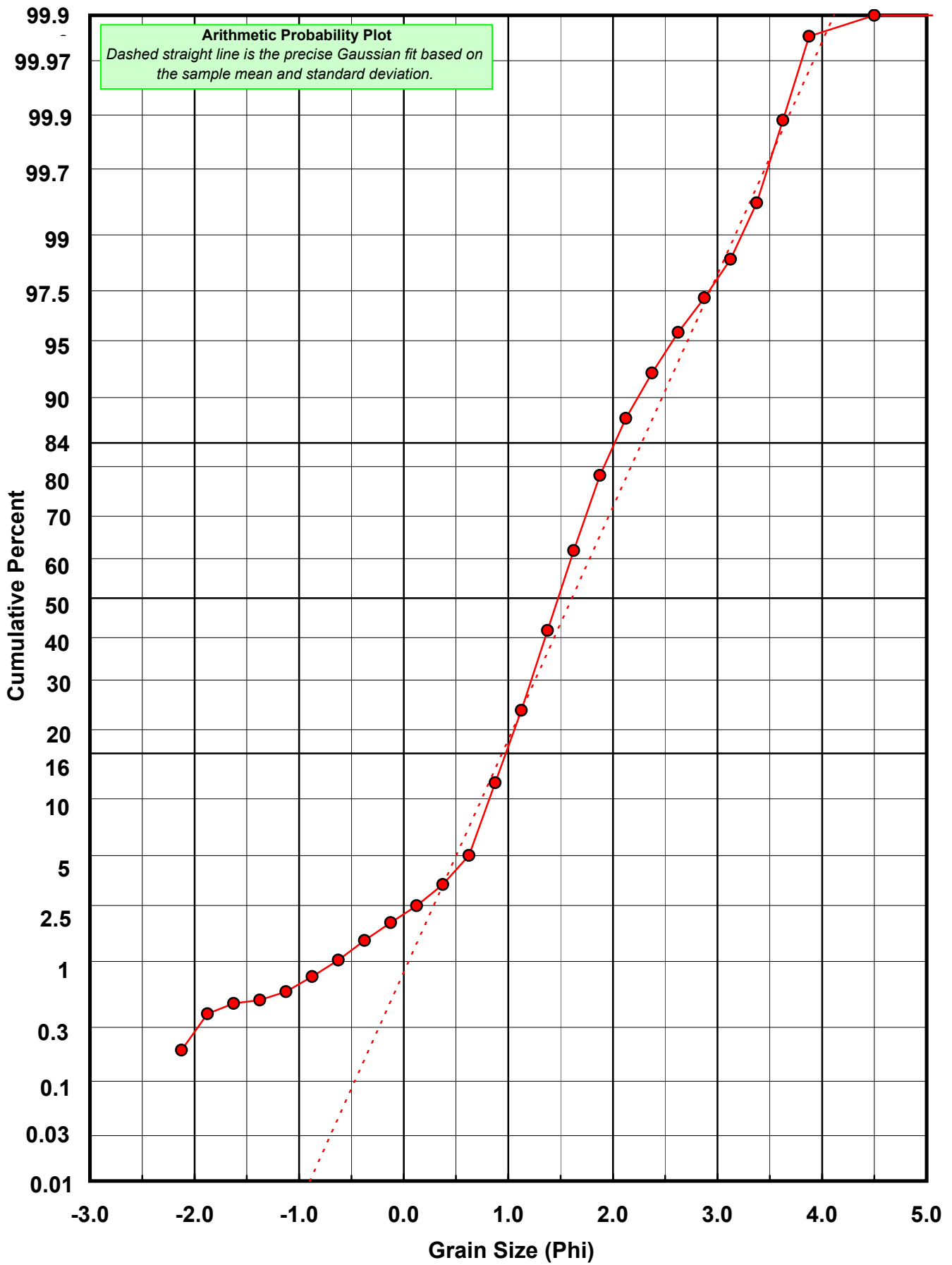
Statistical Results			
Mean:	1.6090	phi	(0.3278 mm)
Standard Dev:	0.6729	phi-units	(0.6273 mm)
Skewness:	-0.6401	dimensionless	
Kurtosis:	7.5541	dimensionless	
5th Moment:	-21.4125	dimensionless	
6th Moment:	137.4336	dimensionless	
RARD *	0.4182	dimensionless	
Median	1.4766	phi	(0.3593 mm)

\* 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-05-BB

Total Carbonate Mass: 9.233 grams

% Carbonate: 10.9 %

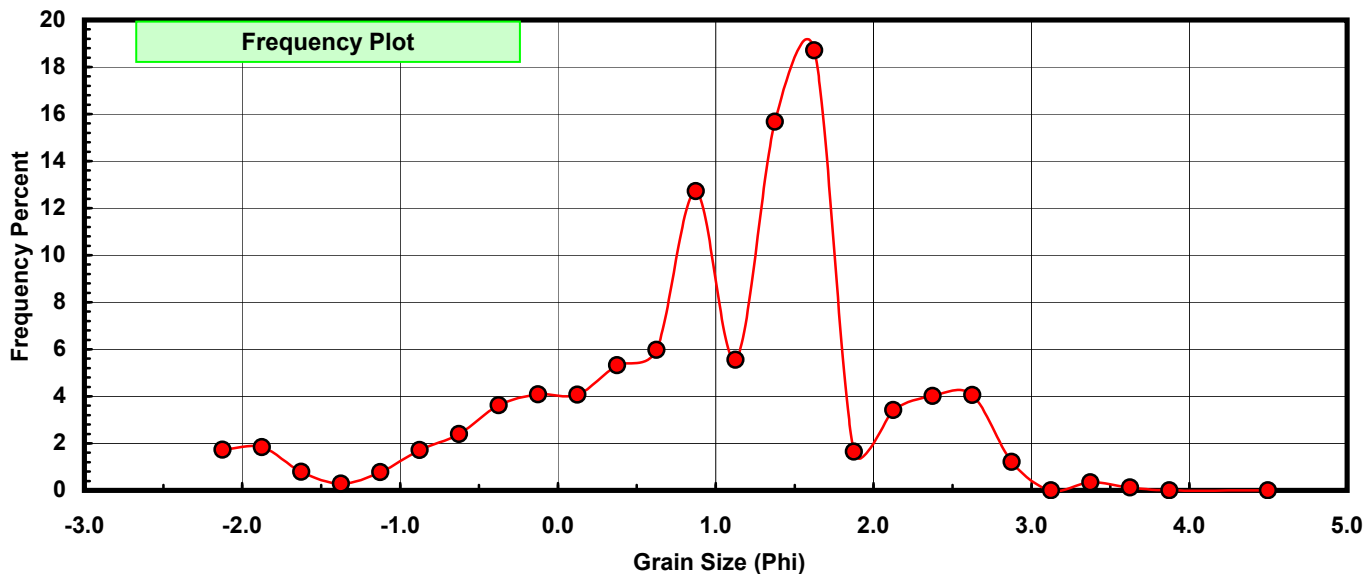
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.159	1.722	1.722
-1.75	-1.875	0.170	1.841	3.563
-1.50	-1.625	0.073	0.791	4.354
-1.25	-1.375	0.026	0.282	4.636
-1.00	-1.125	0.071	0.769	5.405
-0.75	-0.875	0.158	1.711	7.116
-0.50	-0.625	0.221	2.394	9.509
-0.25	-0.375	0.334	3.617	13.127
0.00	-0.125	0.377	4.083	17.210
0.25	0.125	0.375	4.062	21.272
0.50	0.375	0.491	5.318	26.589
0.75	0.625	0.551	5.968	32.557
1.00	0.875	1.175	12.726	45.283
1.25	1.125	0.513	5.556	50.839
1.50	1.375	1.447	15.672	66.511
1.75	1.625	1.727	18.705	85.216
2.00	1.875	0.152	1.646	86.862
2.25	2.125	0.315	3.412	90.274
2.50	2.375	0.370	4.007	94.281
2.75	2.625	0.374	4.051	98.332
3.00	2.875	0.112	1.213	99.545
3.25	3.125	0.000	0.000	99.545
3.50	3.375	0.031	0.336	99.881
3.75	3.625	0.011	0.119	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

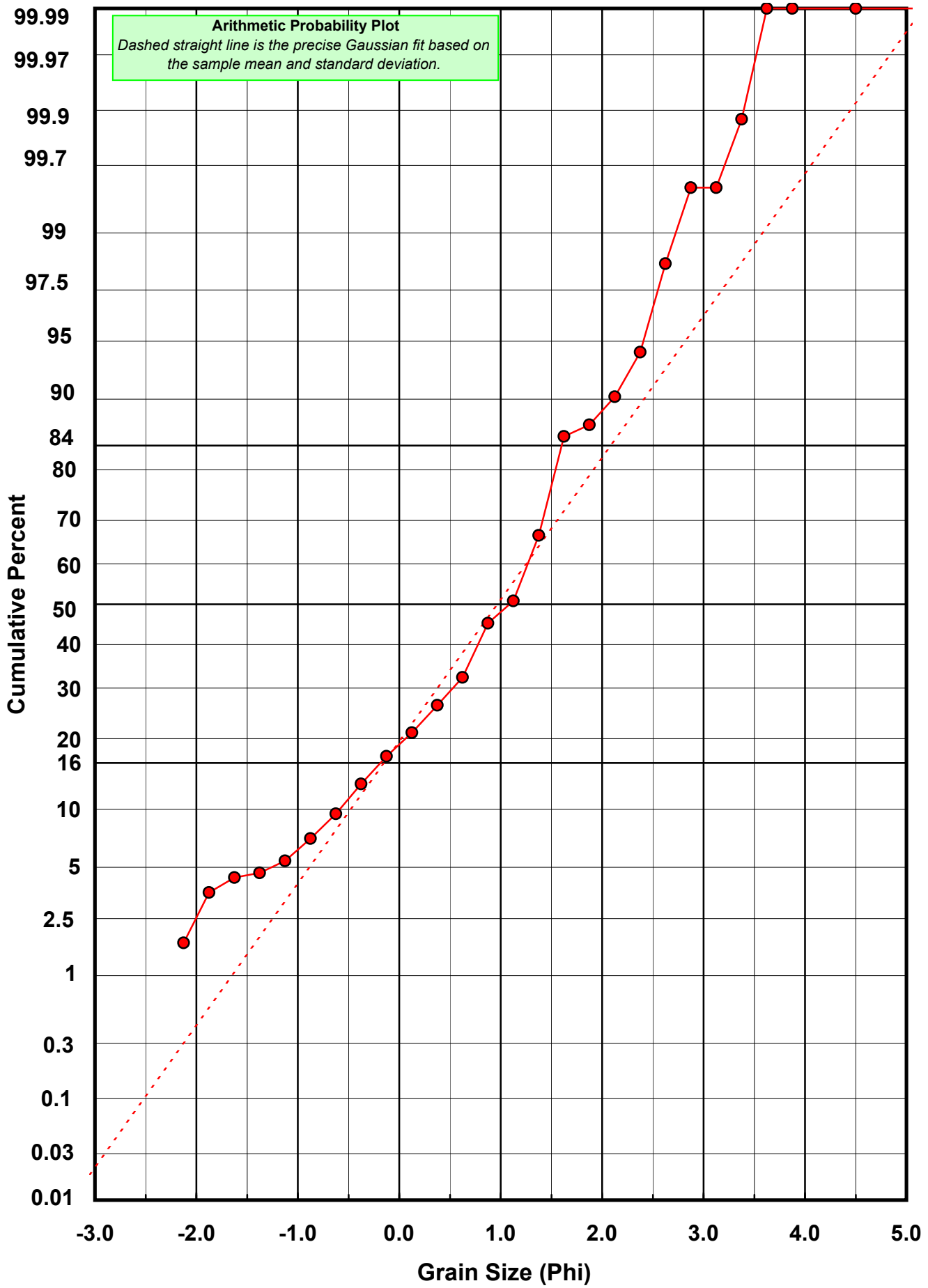
Statistical Results			
Mean:	0.9659	phi	(0.512 mm)
Standard Dev:	1.1278	phi-units	(0.4576 mm)
Skewness:	-0.7620	dimensionless	
Kurtosis:	3.3425	dimensionless	
5th Moment:	-5.5088	dimensionless	
6th Moment:	17.6954	dimensionless	
RARD *	1.1676	dimensionless	
Median	1.0872	phi	(0.4707 mm)

\* 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-05-BB

Total Digested Mass: 75.171 grams

% Silica: 89.1 %

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	0.002	0.003	0.003
0.00	-0.125	0.022	0.029	0.032
0.25	0.125	0.093	0.124	0.156
0.50	0.375	0.257	0.342	0.498
0.75	0.625	0.824	1.096	1.594
1.00	0.875	4.700	6.252	7.846
1.25	1.125	9.566	12.726	20.572
1.50	1.375	13.732	18.268	38.839
1.75	1.625	15.149	20.153	58.992
2.00	1.875	13.624	18.124	77.116
2.25	2.125	7.494	9.969	87.085
2.50	2.375	3.919	5.213	92.299
2.75	2.625	2.182	2.903	95.202
3.00	2.875	1.327	1.765	96.967
3.25	3.125	1.039	1.382	98.349
3.50	3.375	0.770	1.024	99.373
3.75	3.625	0.379	0.504	99.878
4.00	3.875	0.092	0.122	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.6880	phi	(0.3104 mm)
Standard Dev:	0.5565	phi-units	(0.68 mm)
Skewness:	0.7639	dimensionless	
Kurtosis:	4.1306	dimensionless	
5th Moment:	7.9601	dimensionless	
6th Moment:	31.3785	dimensionless	
RARD *	0.3297	dimensionless	
Median	1.5134	phi	(0.3503 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)

