

**Onshore Grab Sample**

**Sample:** SJ-01-MB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/4/02  
**Splits?** N/A

**County:** St. Johns  
**Latitude:** 30° 14' 43.8"  
**Longitude:** 81° 22' 43.2"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 57.219 grams  
Total Fines in Sample 0.005 grams  
Total Percent Fines 0.01 %

**Dry Sieving Summary**

Total Sample Weight 57.250 grams  
Total Digested Weight 55.951 grams  
Total Carbonate Weight 1.299 grams  
Total Silica % 97.73 %  
Total Carbonate % 2.27 %  
Carbonate/Silica Ratio 0.023

**General Comments:**

None

**Description**

Worked By: C. Fischler  
Reviewed and Edited By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-01-MB

Total Sample Mass: 57.250 grams

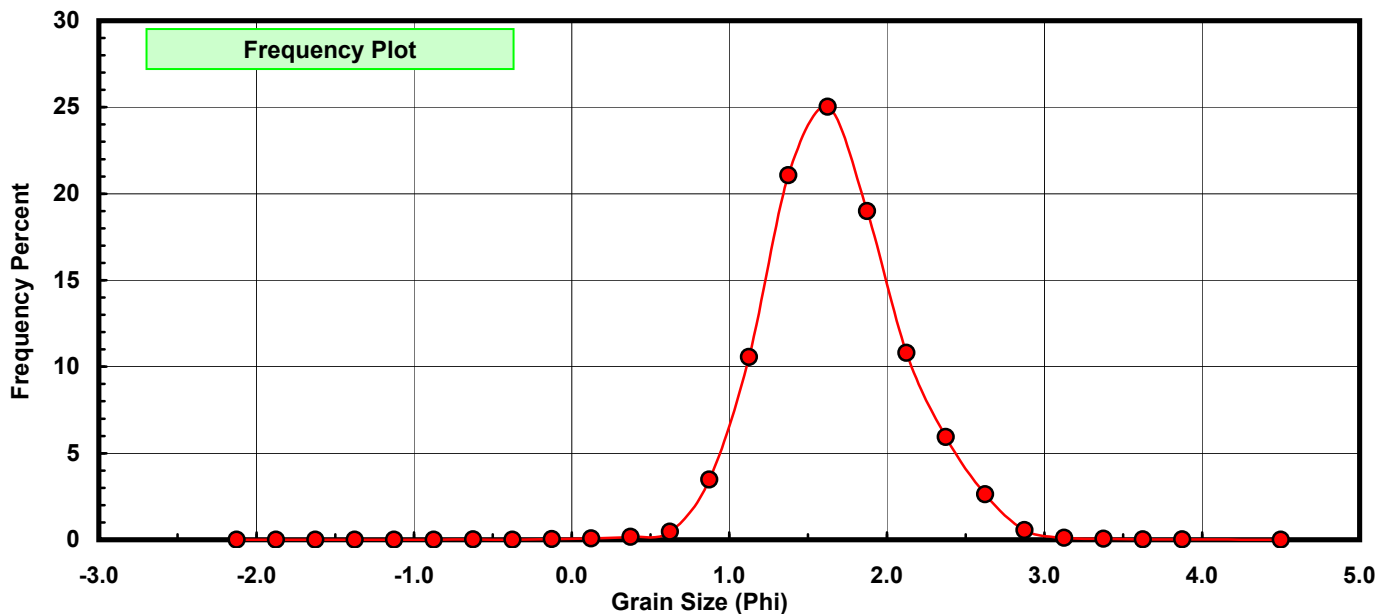
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.015	0.026	0.026
-0.25	-0.375	0.002	0.003	0.030
0.00	-0.125	0.023	0.040	0.070
0.25	0.125	0.040	0.070	0.140
0.50	0.375	0.091	0.159	0.299
0.75	0.625	0.267	0.466	0.765
1.00	0.875	1.993	3.481	4.246
1.25	1.125	6.044	10.557	14.803
1.50	1.375	12.059	21.064	35.867
1.75	1.625	14.323	25.018	60.886
2.00	1.875	10.874	18.994	79.879
2.25	2.125	6.182	10.798	90.678
2.50	2.375	3.403	5.944	96.622
2.75	2.625	1.501	2.622	99.244
3.00	2.875	0.321	0.561	99.804
3.25	3.125	0.061	0.107	99.911
3.50	3.375	0.027	0.047	99.958
3.75	3.625	0.011	0.019	99.977
4.00	3.875	0.008	0.014	99.991
5.00	4.500	0.005	0.009	100.000

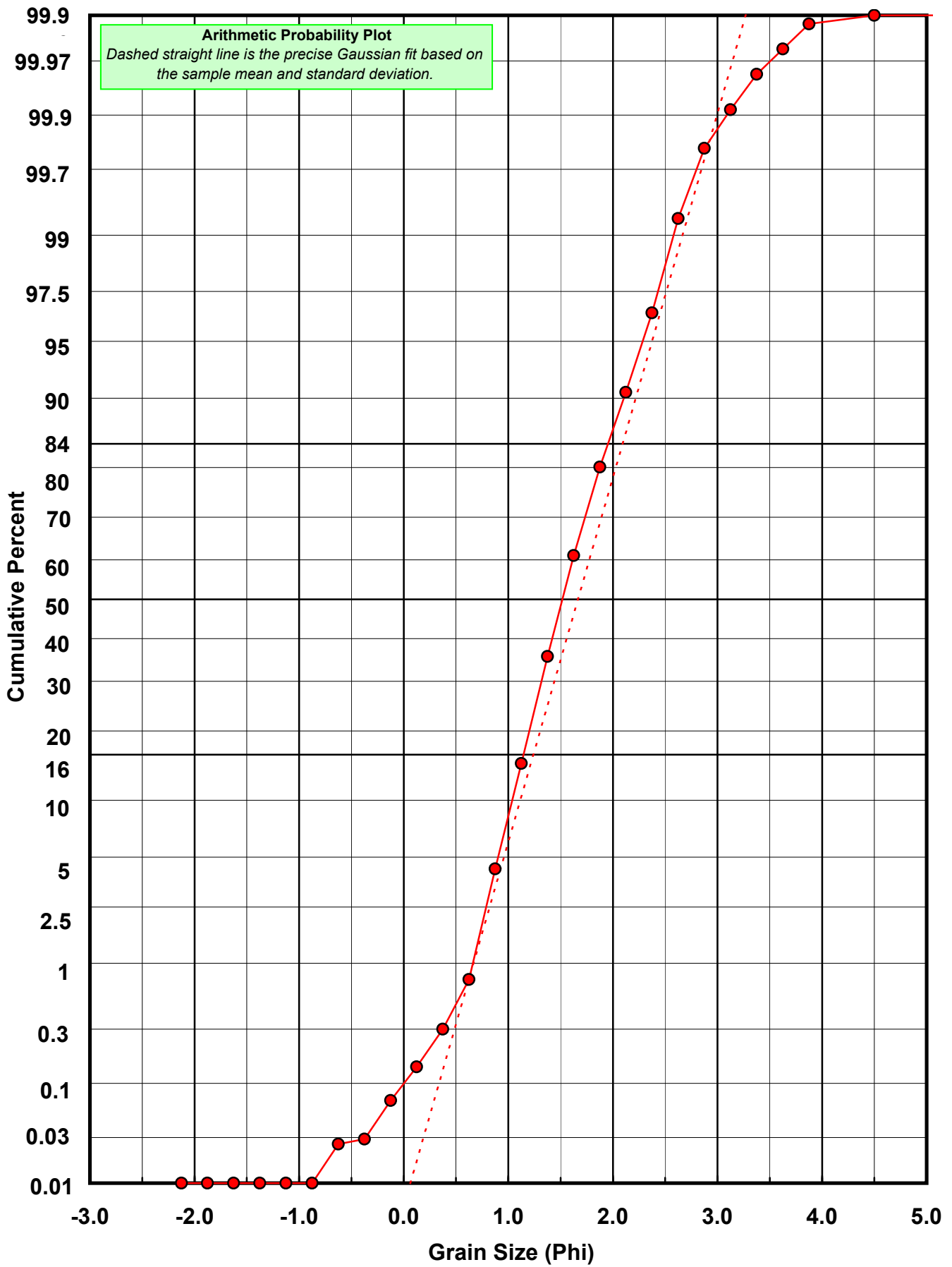
Statistical Results			
Mean:	1.6670	phi	(0.3149 mm)
Standard Dev:	0.4305	phi-units	(0.742 mm)
Skewness:	0.2587	dimensionless	
Kurtosis:	3.6992	dimensionless	
5th Moment:	2.2049	dimensionless	
6th Moment:	36.4879	dimensionless	
RARD *	0.2583	dimensionless	
Median	1.5162	phi	(0.3496 mm)

\* 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-01-MB

Total Carbonate Mass: 1.463 grams

% Carbonate: 2.3 %

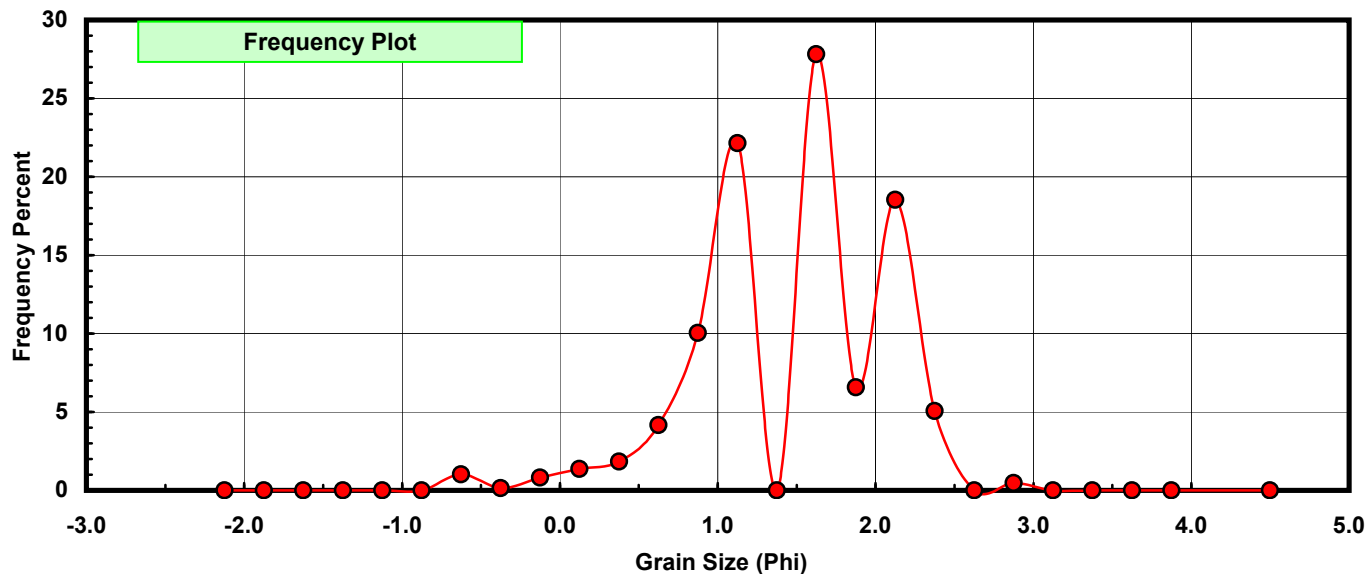
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.015	1.025	1.025
-0.25	-0.375	0.002	0.137	1.162
0.00	-0.125	0.012	0.820	1.982
0.25	0.125	0.020	1.367	3.349
0.50	0.375	0.027	1.846	5.195
0.75	0.625	0.061	4.170	9.364
1.00	0.875	0.147	10.048	19.412
1.25	1.125	0.324	22.146	41.558
1.50	1.375	0.000	0.000	41.558
1.75	1.625	0.407	27.820	69.378
2.00	1.875	0.096	6.562	75.940
2.25	2.125	0.271	18.524	94.463
2.50	2.375	0.074	5.058	99.522
2.75	2.625	0.000	0.000	99.522
3.00	2.875	0.007	0.478	100.000
3.25	3.125	0.000	0.000	100.000
3.50	3.375	0.000	0.000	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

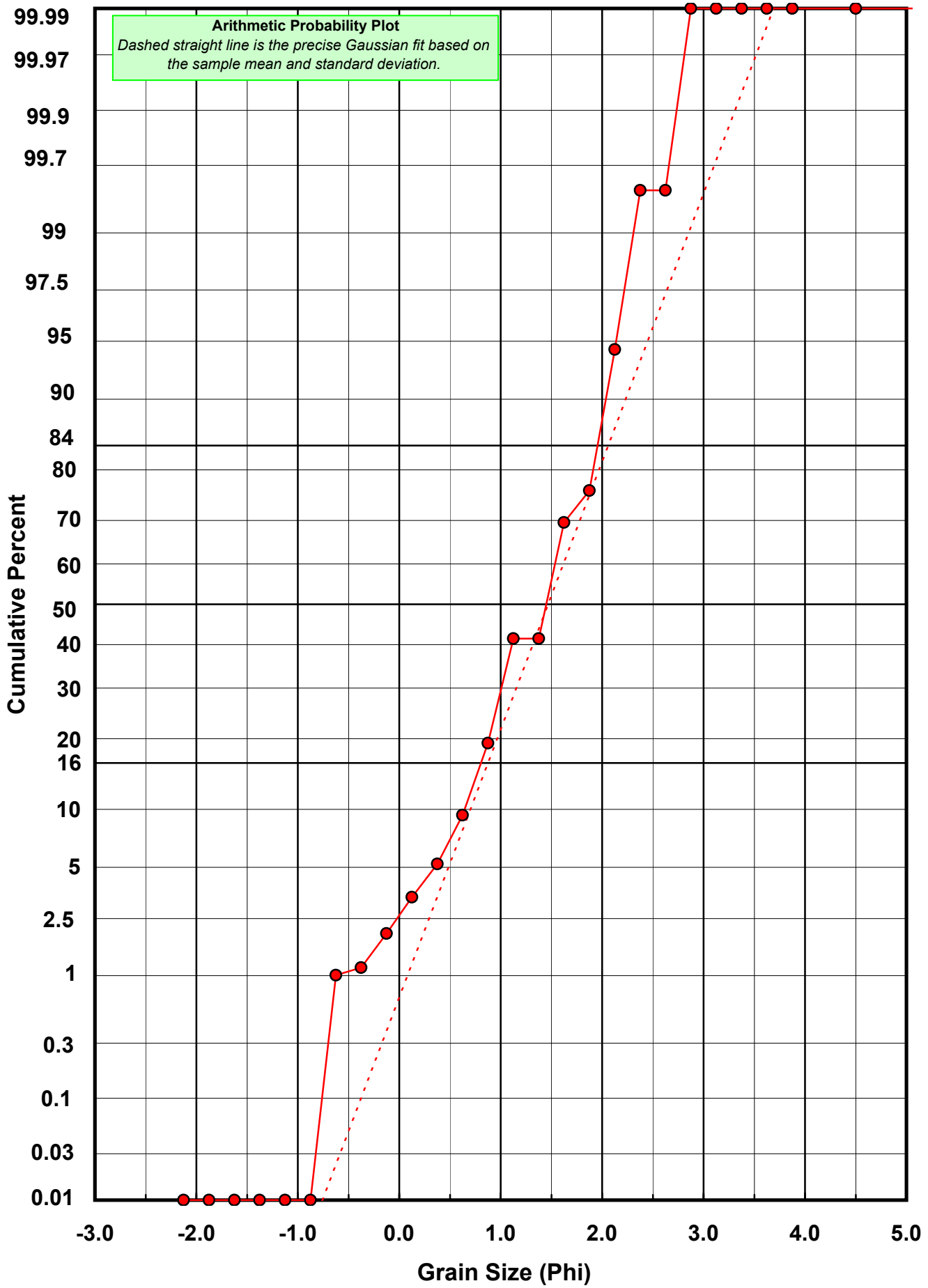
Statistical Results			
Mean:	1.4664	phi	(0.3619 mm)
Standard Dev:	0.5974	phi-units	(0.661 mm)
Skewness:	-0.6427	dimensionless	
Kurtosis:	3.6223	dimensionless	
5th Moment:	-7.2980	dimensionless	
6th Moment:	27.6397	dimensionless	
RARD *	0.4074	dimensionless	
Median	1.4509	phi	(0.3658 mm)

\* 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-01-MB

Total Digested Mass: 55.945 grams

% Silica: 97.7 %

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	0.011	0.020	0.020
0.25	0.125	0.020	0.036	0.055
0.50	0.375	0.064	0.114	0.170
0.75	0.625	0.206	0.368	0.538
1.00	0.875	1.846	3.300	3.838
1.25	1.125	5.720	10.224	14.062
1.50	1.375	12.202	21.811	35.873
1.75	1.625	13.916	24.874	60.747
2.00	1.875	10.778	19.265	80.013
2.25	2.125	5.911	10.566	90.578
2.50	2.375	3.329	5.950	96.529
2.75	2.625	1.515	2.708	99.237
3.00	2.875	0.314	0.561	99.798
3.25	3.125	0.062	0.111	99.909
3.50	3.375	0.030	0.054	99.962
3.75	3.625	0.012	0.021	99.984
4.00	3.875	0.009	0.016	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.6717	phi	(0.3139 mm)
Standard Dev:	0.4234	phi-units	(0.7457 mm)
Skewness:	0.3551	dimensionless	
Kurtosis:	3.3507	dimensionless	
5th Moment:	3.3966	dimensionless	
6th Moment:	23.4213	dimensionless	
RARD *	0.2532	dimensionless	
Median	1.5170	phi	(0.3494 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)

