

**Onshore Grab Sample**

**Sample:** VO-11-SS  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/3/03  
**Splits?** N/A

**County:** Volusia  
**Latitude:** 29° 17' 46.68"  
**Longitude:** 81° 02' 27.06"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 84.551 grams  
Total Fines in Sample 0.970 grams  
Total Percent Fines 1.13 %

**Dry Sieving Summary**

Total Sample Weight 83.463 grams  
Total Digested Weight 74.116 grams  
Total Carbonate Weight 9.347 grams  
Total Silica % 88.80 %  
Total Carbonate % 11.20 %  
Carbonate/Silica Ratio 0.126

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-11-SS

Total Sample Mass: 83.463 grams

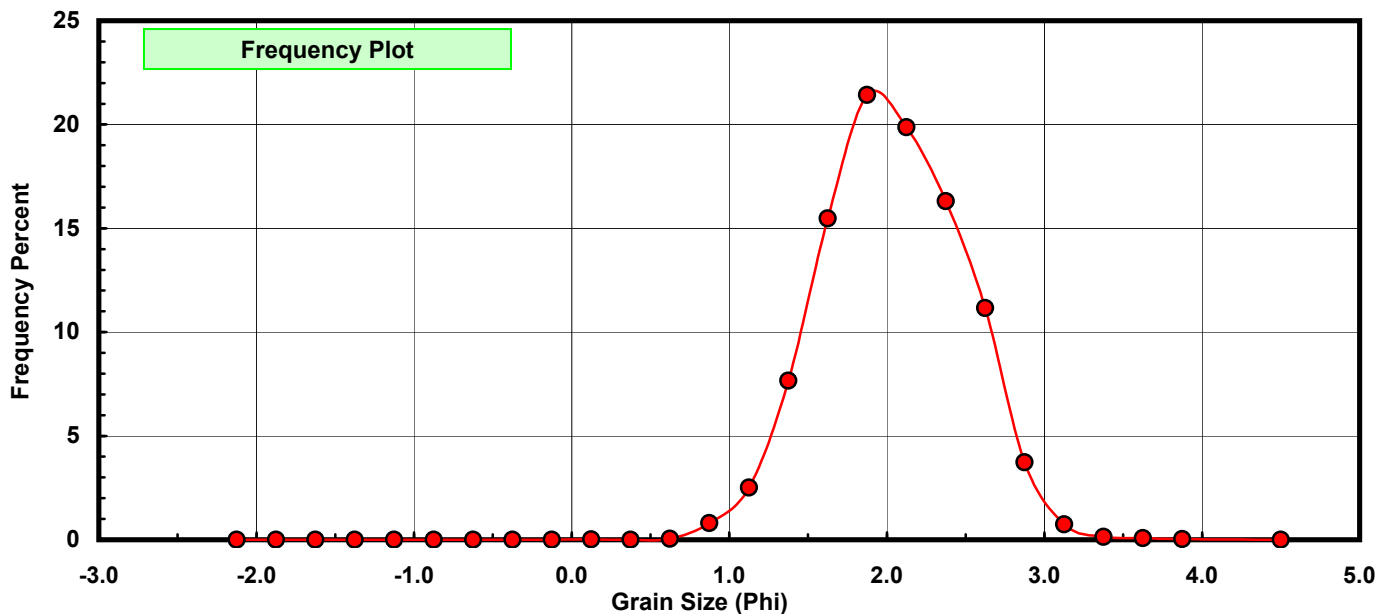
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.001	0.001	0.001
0.00	-0.125	0.000	0.000	0.001
0.25	0.125	0.008	0.010	0.011
0.50	0.375	0.003	0.004	0.014
0.75	0.625	0.036	0.043	0.058
1.00	0.875	0.675	0.809	0.866
1.25	1.125	2.091	2.505	3.372
1.50	1.375	6.391	7.657	11.029
1.75	1.625	12.921	15.481	26.510
2.00	1.875	17.878	21.420	47.930
2.25	2.125	16.587	19.873	67.804
2.50	2.375	13.616	16.314	84.118
2.75	2.625	9.308	11.152	95.270
3.00	2.875	3.109	3.725	98.995
3.25	3.125	0.623	0.746	99.741
3.50	3.375	0.119	0.143	99.884
3.75	3.625	0.066	0.079	99.963
4.00	3.875	0.028	0.034	99.996
5.00	4.500	0.003	0.004	100.000

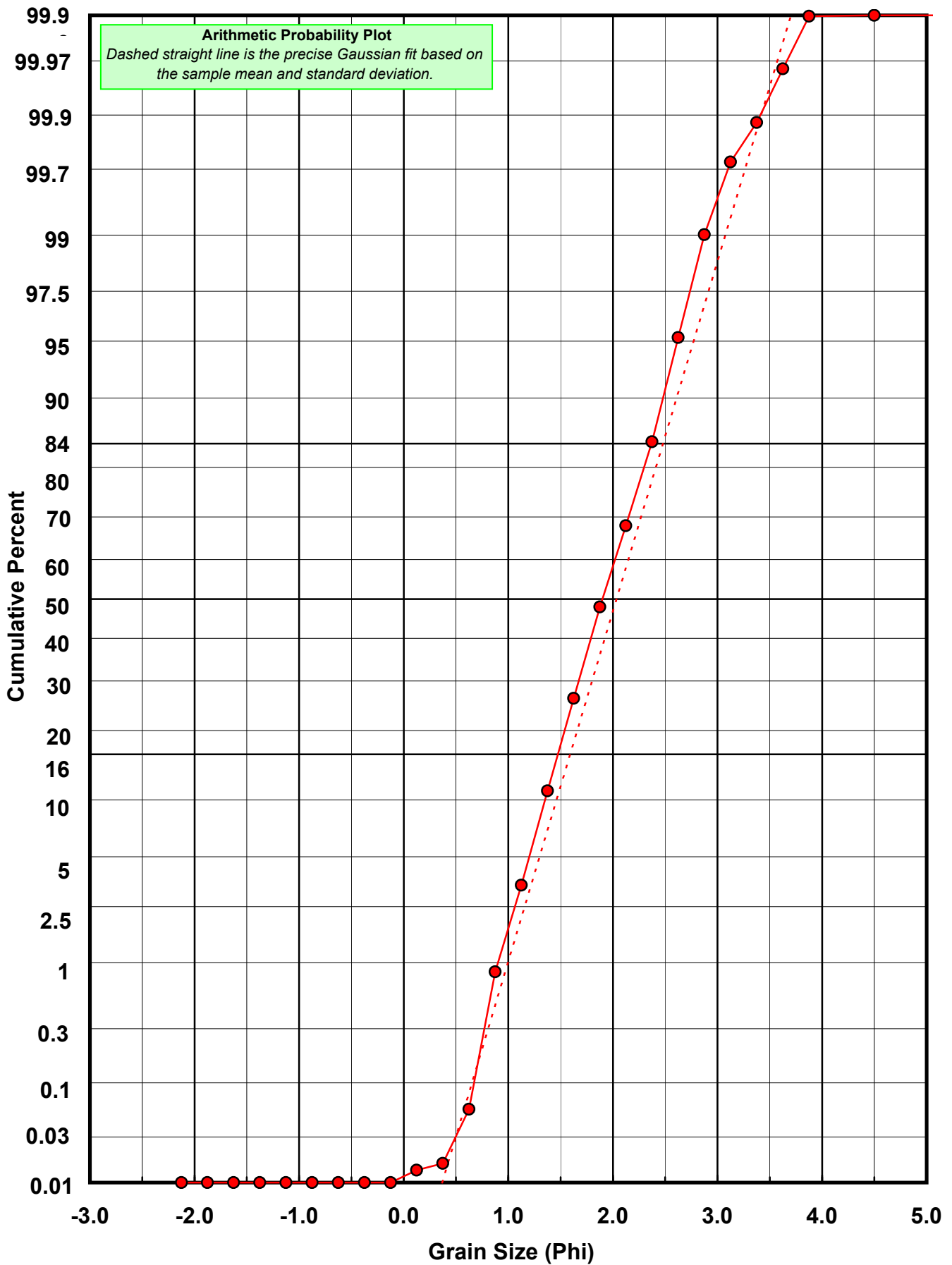
Statistical Results			
Mean:	2.0361	phi	(0.2438 mm)
Standard Dev:	0.4479	phi-units	(0.7331 mm)
Skewness:	0.0283	dimensionless	
Kurtosis:	2.8698	dimensionless	
5th Moment:	0.5275	dimensionless	
6th Moment:	15.6361	dimensionless	
RARD *	0.2200	dimensionless	
Median	1.9010	phi	(0.2678 mm)

\* 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: VO-11-SS

Total Carbonate Mass: 9.596 grams

% Carbonate: 11.2 %

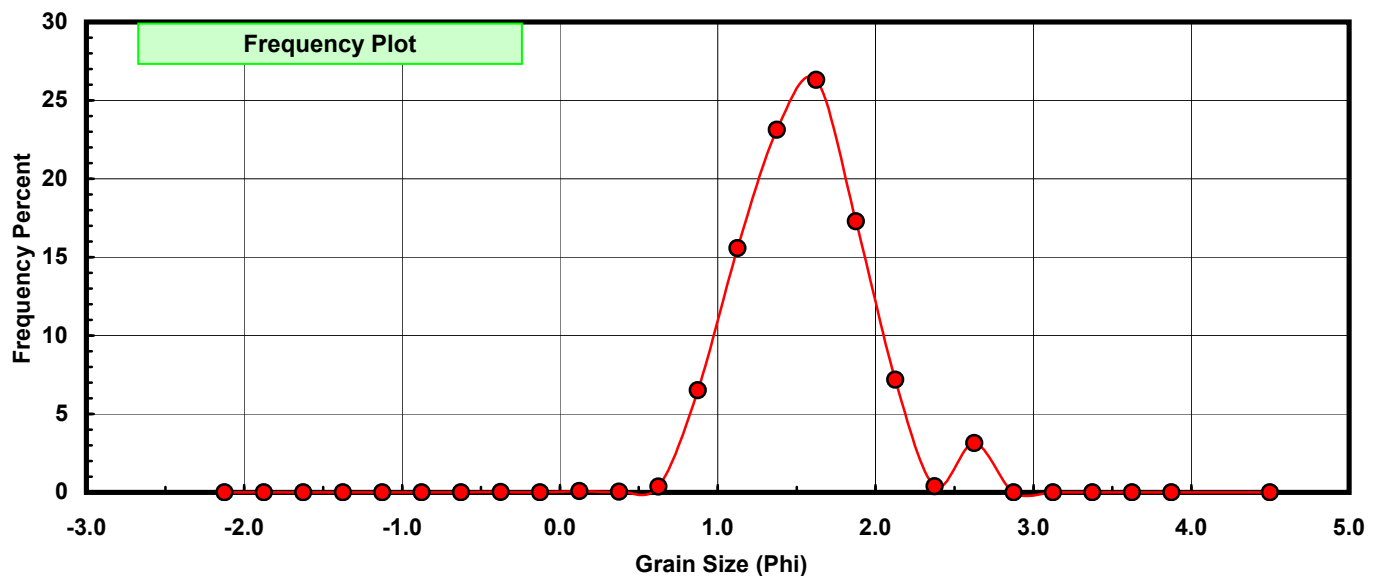
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.001	0.010	0.010
0.00	-0.125	0.000	0.000	0.010
0.25	0.125	0.008	0.083	0.094
0.50	0.375	0.003	0.031	0.125
0.75	0.625	0.036	0.375	0.500
1.00	0.875	0.625	6.513	7.013
1.25	1.125	1.494	15.569	22.582
1.50	1.375	2.218	23.114	45.696
1.75	1.625	2.524	26.303	71.999
2.00	1.875	1.658	17.278	89.277
2.25	2.125	0.690	7.190	96.467
2.50	2.375	0.037	0.386	96.853
2.75	2.625	0.302	3.147	100.000
3.00	2.875	0.000	0.000	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

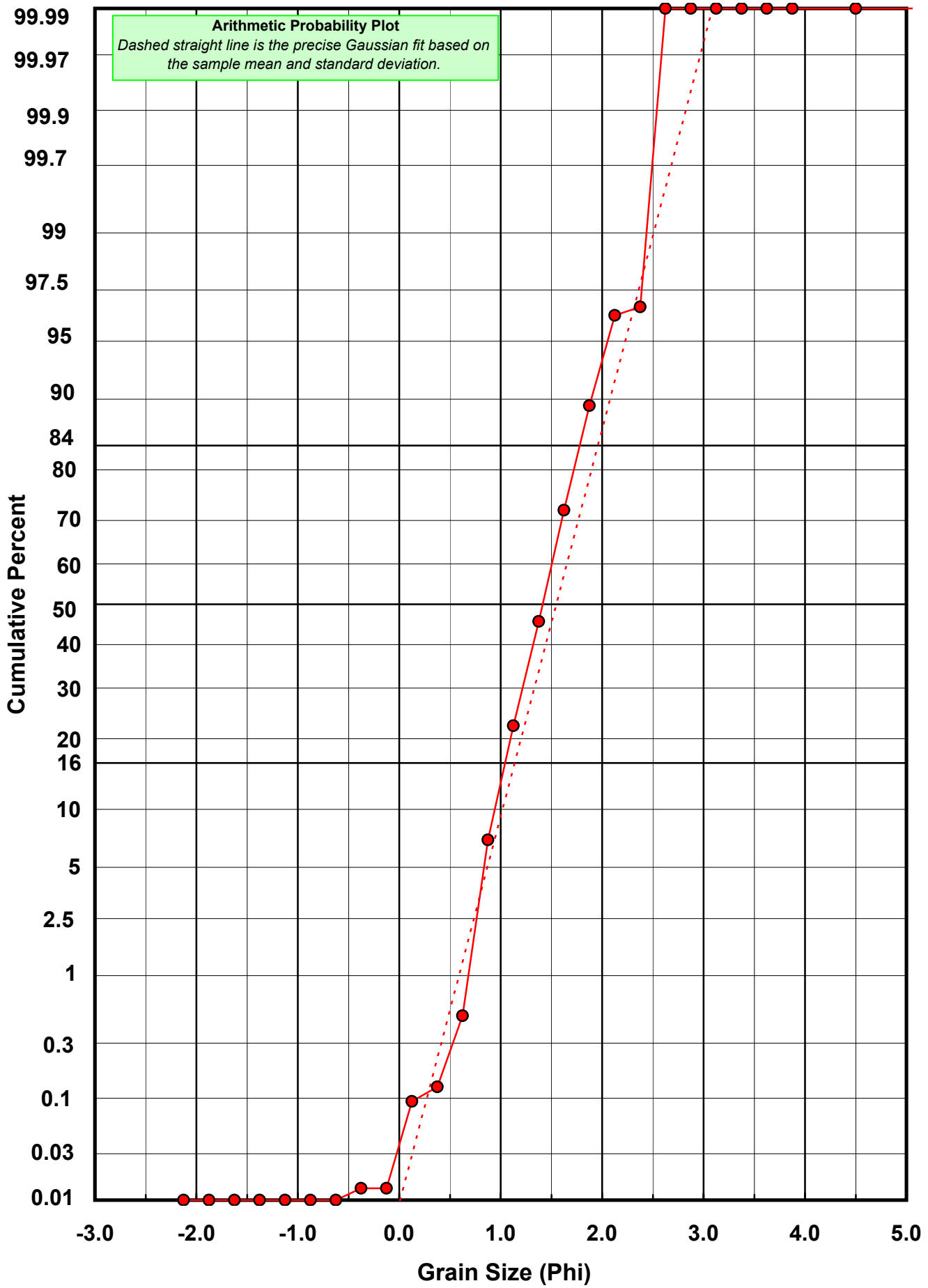
Statistical Results			
Mean:	1.5484	phi	(0.3419 mm)
Standard Dev:	0.4134	phi-units	(0.7509 mm)
Skewness:	0.3451	dimensionless	
Kurtosis:	3.0873	dimensionless	
5th Moment:	2.7938	dimensionless	
6th Moment:	16.8655	dimensionless	
RARD *	0.2670	dimensionless	
Median	1.4159	phi	(0.3748 mm)

\* 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: VO-11-SS

Total Digested Mass: 74.116 grams

% Silica: 88.8 %

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	0.000	0.000	0.000
1.00	0.875	0.050	0.067	0.067
1.25	1.125	0.597	0.805	0.873
1.50	1.375	4.173	5.630	6.503
1.75	1.625	10.397	14.028	20.531
2.00	1.875	16.220	21.885	42.416
2.25	2.125	15.897	21.449	63.865
2.50	2.375	13.579	18.321	82.186
2.75	2.625	9.006	12.151	94.337
3.00	2.875	3.232	4.361	98.698
3.25	3.125	0.704	0.950	99.648
3.50	3.375	0.130	0.175	99.823
3.75	3.625	0.090	0.121	99.945
4.00	3.875	0.041	0.055	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.1028	phi	(0.2328 mm)
Standard Dev:	0.4176	phi-units	(0.7487 mm)
Skewness:	0.1926	dimensionless	
Kurtosis:	2.8353	dimensionless	
5th Moment:	2.2991	dimensionless	
6th Moment:	15.6148	dimensionless	
RARD *	0.1986	dimensionless	
Median	1.9634	phi	(0.2564 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)

