

**Onshore Grab Sample**

**Sample:** VO-04-BB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/3/03  
**Splits?** N/A

**County:** Volusia  
**Latitude:** 29° 23' 49.62"  
**Longitude:** 81° 05' 51.60"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 60.89 grams  
Total Fines in Sample 0.136 grams  
Total Percent Fines 0.22 %

**Dry Sieving Summary**

Total Sample Weight 60.164 grams  
Total Digested Weight 44.615 grams  
Total Carbonate Weight 15.549 grams  
Total Silica % 74.16 %  
Total Carbonate % 25.84 %  
Carbonate/Silica Ratio 0.349

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-04-BB

Total Sample Mass: 60.164 grams

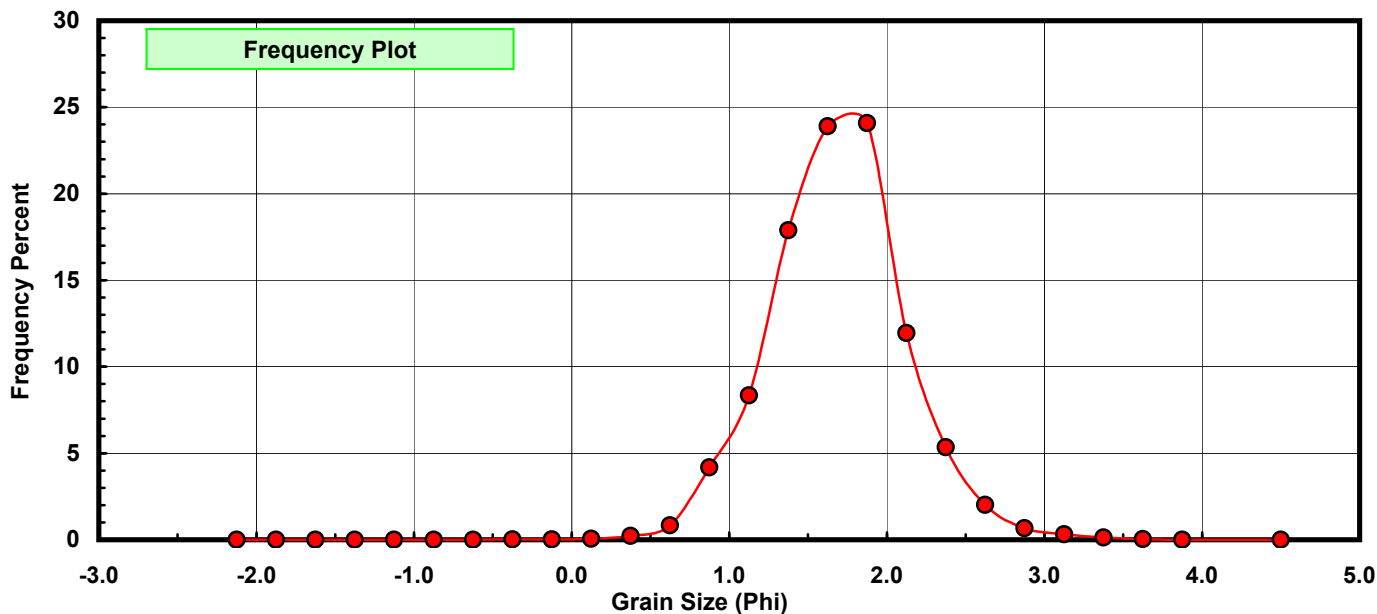
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.008	0.013	0.013
0.00	-0.125	0.008	0.013	0.027
0.25	0.125	0.035	0.058	0.085
0.50	0.375	0.137	0.228	0.312
0.75	0.625	0.502	0.834	1.147
1.00	0.875	2.514	4.179	5.325
1.25	1.125	5.022	8.347	13.673
1.50	1.375	10.759	17.883	31.555
1.75	1.625	14.379	23.900	55.455
2.00	1.875	14.490	24.084	79.539
2.25	2.125	7.194	11.957	91.497
2.50	2.375	3.217	5.347	96.844
2.75	2.625	1.218	2.024	98.868
3.00	2.875	0.397	0.660	99.528
3.25	3.125	0.187	0.311	99.839
3.50	3.375	0.079	0.131	99.970
3.75	3.625	0.018	0.030	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

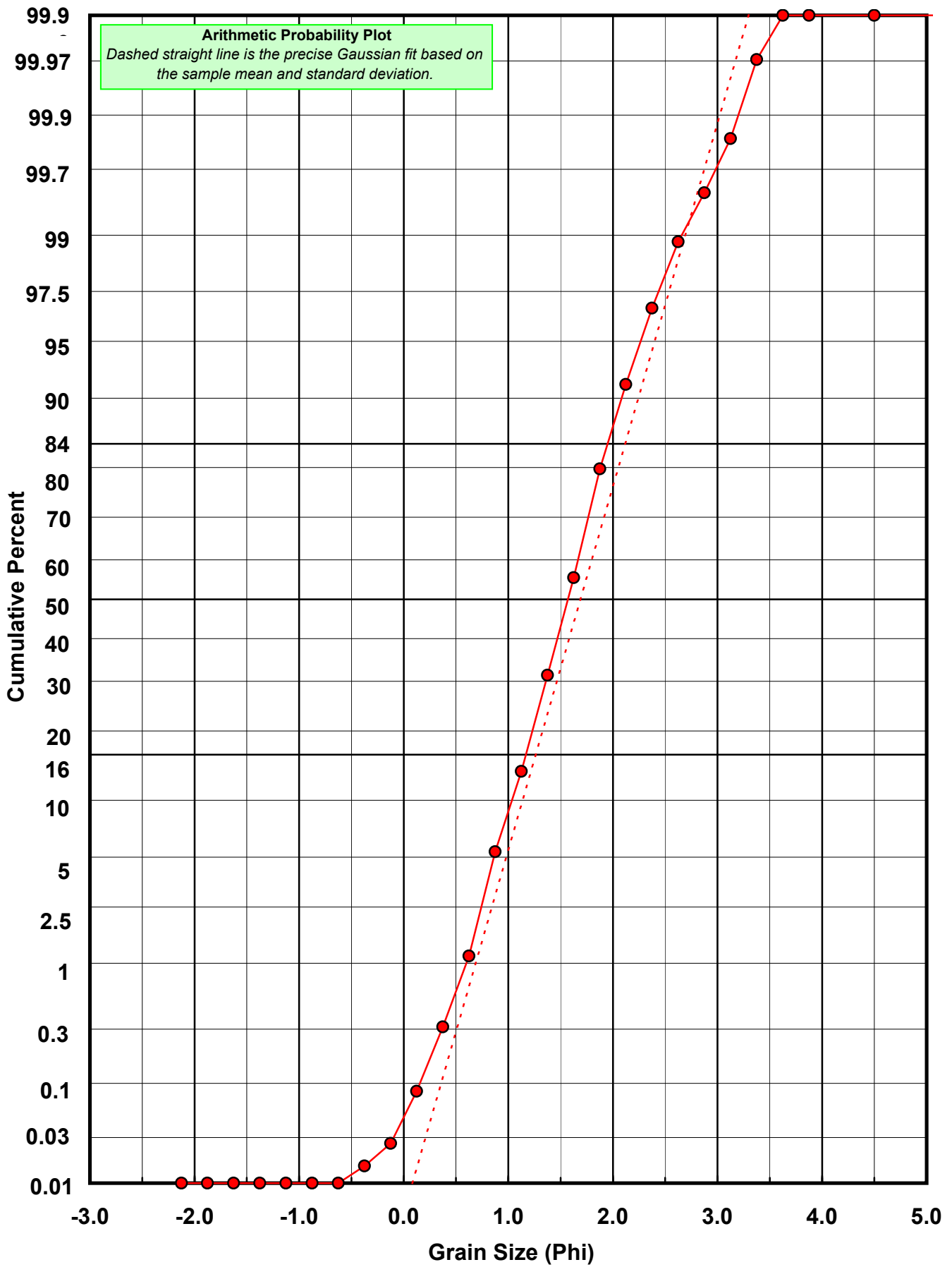
Statistical Results			
Mean:	1.6908	phi	(0.3098 mm)
Standard Dev:	0.4316	phi-units	(0.7415 mm)
Skewness:	0.1327	dimensionless	
Kurtosis:	3.7036	dimensionless	
5th Moment:	2.0631	dimensionless	
6th Moment:	27.3200	dimensionless	
RARD *	0.2552	dimensionless	
Median	1.5679	phi	(0.3373 mm)

\* 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-04-BB

Total Carbonate Mass: 15.556 grams

% Carbonate: 25.8 %

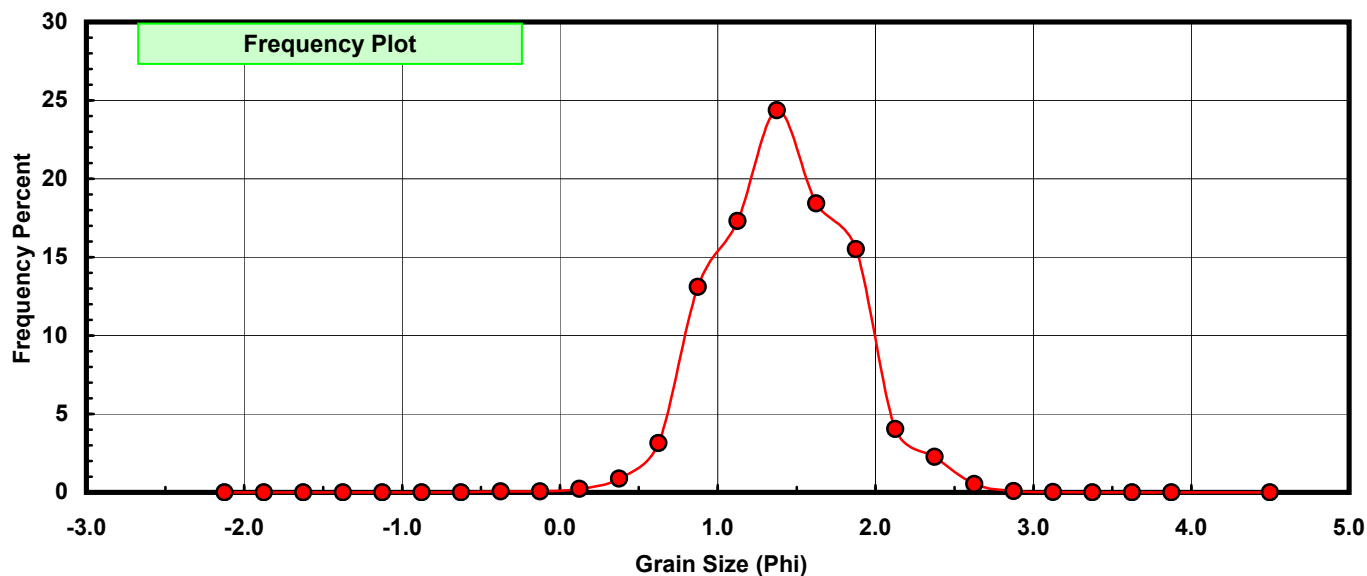
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.008	0.051	0.051
0.00	-0.125	0.008	0.051	0.103
0.25	0.125	0.034	0.219	0.321
0.50	0.375	0.137	0.881	1.202
0.75	0.625	0.488	3.137	4.339
1.00	0.875	2.037	13.095	17.434
1.25	1.125	2.693	17.312	34.745
1.50	1.375	3.791	24.370	59.115
1.75	1.625	2.867	18.430	77.546
2.00	1.875	2.413	15.512	93.057
2.25	2.125	0.628	4.037	97.094
2.50	2.375	0.352	2.263	99.357
2.75	2.625	0.084	0.540	99.897
3.00	2.875	0.012	0.077	99.974
3.25	3.125	0.004	0.026	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

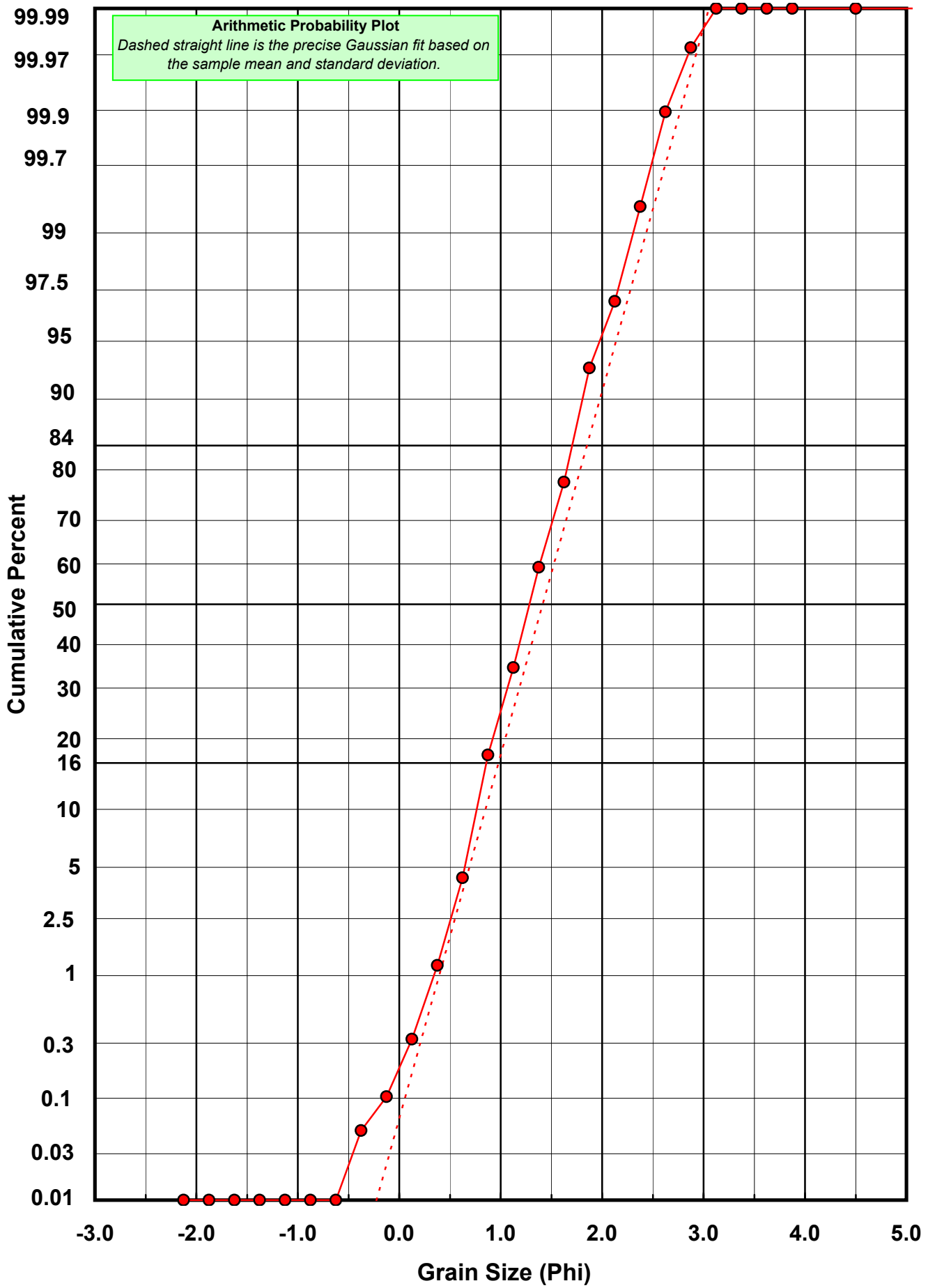
Statistical Results			
Mean:	1.4144	phi	(0.3752 mm)
Standard Dev:	0.4401	phi-units	(0.7371 mm)
Skewness:	0.0640	dimensionless	
Kurtosis:	2.9405	dimensionless	
5th Moment:	0.2425	dimensionless	
6th Moment:	16.3651	dimensionless	
RARD *	0.3111	dimensionless	
Median	1.2815	phi	(0.4114 mm)

\* 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-04-BB

Total Digested Mass: 44.615 grams

% Silica: 74.2 %

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	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.001	0.002	0.002
0.50	0.375	0.000	0.000	0.002
0.75	0.625	0.014	0.031	0.034
1.00	0.875	0.477	1.069	1.103
1.25	1.125	2.329	5.220	6.323
1.50	1.375	6.968	15.618	21.941
1.75	1.625	11.512	25.803	47.744
2.00	1.875	12.077	27.069	74.813
2.25	2.125	6.566	14.717	89.530
2.50	2.375	2.865	6.422	95.952
2.75	2.625	1.134	2.542	98.494
3.00	2.875	0.385	0.863	99.357
3.25	3.125	0.183	0.410	99.767
3.50	3.375	0.080	0.179	99.946
3.75	3.625	0.024	0.054	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:	1.7875	phi	(0.2897 mm)
Standard Dev:	0.3896	phi-units	(0.7633 mm)
Skewness:	0.5060	dimensionless	
Kurtosis:	3.8939	dimensionless	
5th Moment:	6.7658	dimensionless	
6th Moment:	32.5803	dimensionless	
RARD *	0.2180	dimensionless	
Median	1.6458	phi	(0.3196 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)

