

**Onshore Grab Sample**

**Sample:** VO-29-BB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/3/03  
**Splits?** N/A

**County:** Volusia  
**Latitude:** 29° 05' 6.36"  
**Longitude:** 80° 55' 30.00"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 66.09 grams  
Total Fines in Sample 0.184 grams  
Total Percent Fines 0.28 %

**Dry Sieving Summary**

Total Sample Weight 65.962 grams  
Total Digested Weight 64.434 grams  
Total Carbonate Weight 1.528 grams  
Total Silica % 97.68 %  
Total Carbonate % 2.32 %  
Carbonate/Silica Ratio 0.024

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-29-BB

Total Sample Mass: 65.962 grams

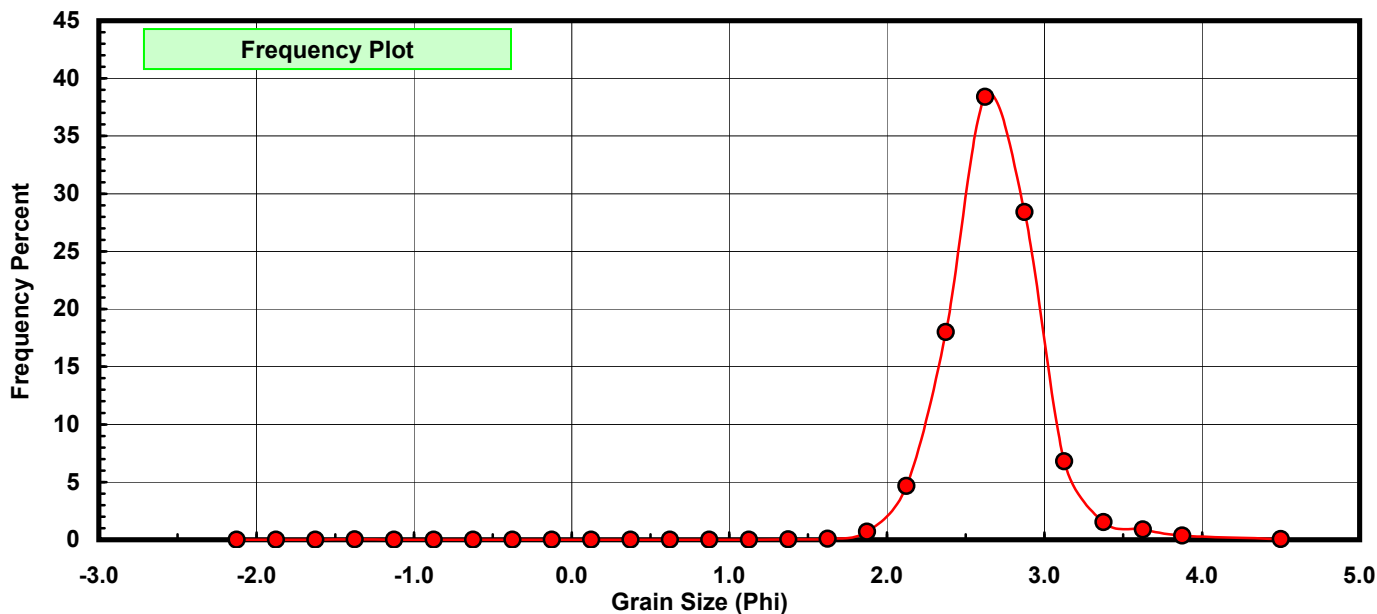
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.004	0.006	0.006
-1.25	-1.375	0.013	0.020	0.026
-1.00	-1.125	0.000	0.000	0.026
-0.75	-0.875	0.000	0.000	0.026
-0.50	-0.625	0.006	0.009	0.035
-0.25	-0.375	0.007	0.011	0.045
0.00	-0.125	0.005	0.008	0.053
0.25	0.125	0.006	0.009	0.062
0.50	0.375	0.008	0.012	0.074
0.75	0.625	0.008	0.012	0.086
1.00	0.875	0.006	0.009	0.096
1.25	1.125	0.007	0.011	0.106
1.50	1.375	0.013	0.020	0.126
1.75	1.625	0.050	0.076	0.202
2.00	1.875	0.458	0.694	0.896
2.25	2.125	3.066	4.648	5.544
2.50	2.375	11.871	17.997	23.541
2.75	2.625	25.336	38.410	61.951
3.00	2.875	18.737	28.406	90.357
3.25	3.125	4.492	6.810	97.167
3.50	3.375	1.015	1.539	98.705
3.75	3.625	0.586	0.888	99.594
4.00	3.875	0.230	0.349	99.942
5.00	4.500	0.038	0.058	100.000

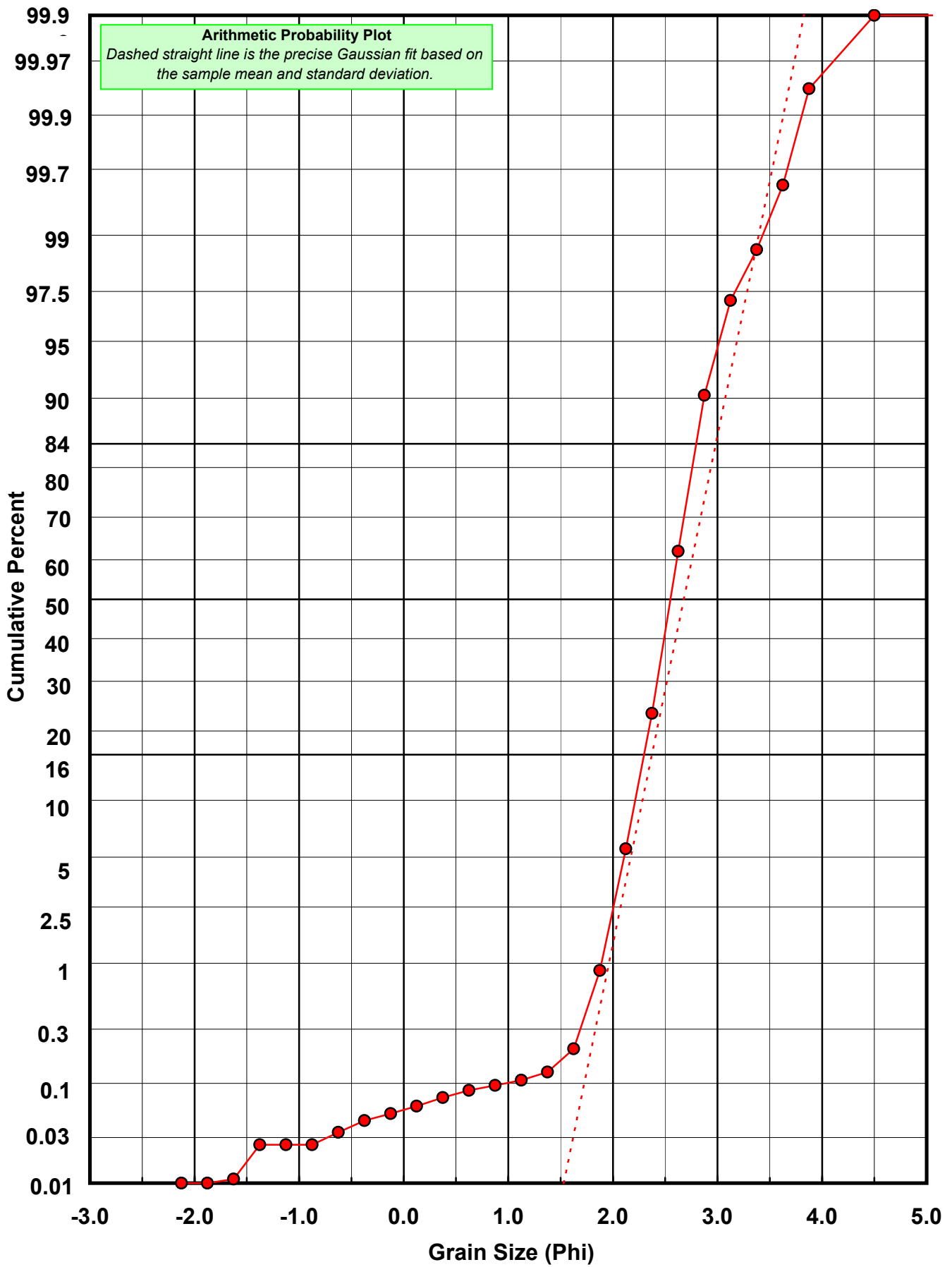
Statistical Results			
Mean:	2.6786	phi	(0.1562 mm)
Standard Dev:	0.3084	phi-units	(0.8075 mm)
Skewness:	-0.6374	dimensionless	
Kurtosis:	16.5424	dimensionless	
5th Moment:	-139.4946	dimensionless	
6th Moment:	1890.7527	dimensionless	
RARD *	0.1151	dimensionless	
Median	2.5472	phi	(0.1711 mm)

\* 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-29-BB

Total Carbonate Mass: 1.853 grams

% Carbonate: 2.3 %

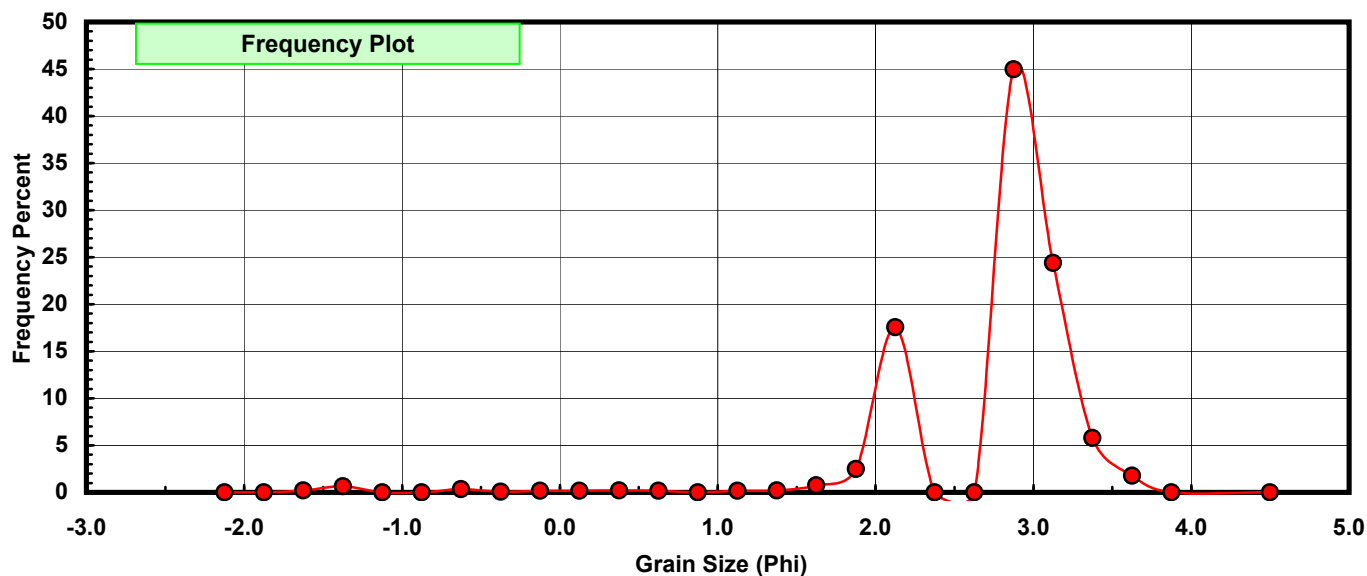
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.004	0.216	0.216
-1.25	-1.375	0.012	0.648	0.863
-1.00	-1.125	0.000	0.000	0.863
-0.75	-0.875	0.000	0.000	0.863
-0.50	-0.625	0.006	0.324	1.187
-0.25	-0.375	0.001	0.054	1.241
0.00	-0.125	0.003	0.162	1.403
0.25	0.125	0.003	0.162	1.565
0.50	0.375	0.004	0.216	1.781
0.75	0.625	0.003	0.162	1.943
1.00	0.875	0.000	0.000	1.943
1.25	1.125	0.003	0.162	2.105
1.50	1.375	0.004	0.216	2.321
1.75	1.625	0.014	0.756	3.076
2.00	1.875	0.046	2.482	5.559
2.25	2.125	0.325	17.539	23.098
2.50	2.375	0.000	0.000	23.098
2.75	2.625	0.000	0.000	23.098
3.00	2.875	0.833	44.954	68.052
3.25	3.125	0.452	24.393	92.445
3.50	3.375	0.107	5.774	98.219
3.75	3.625	0.033	1.781	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

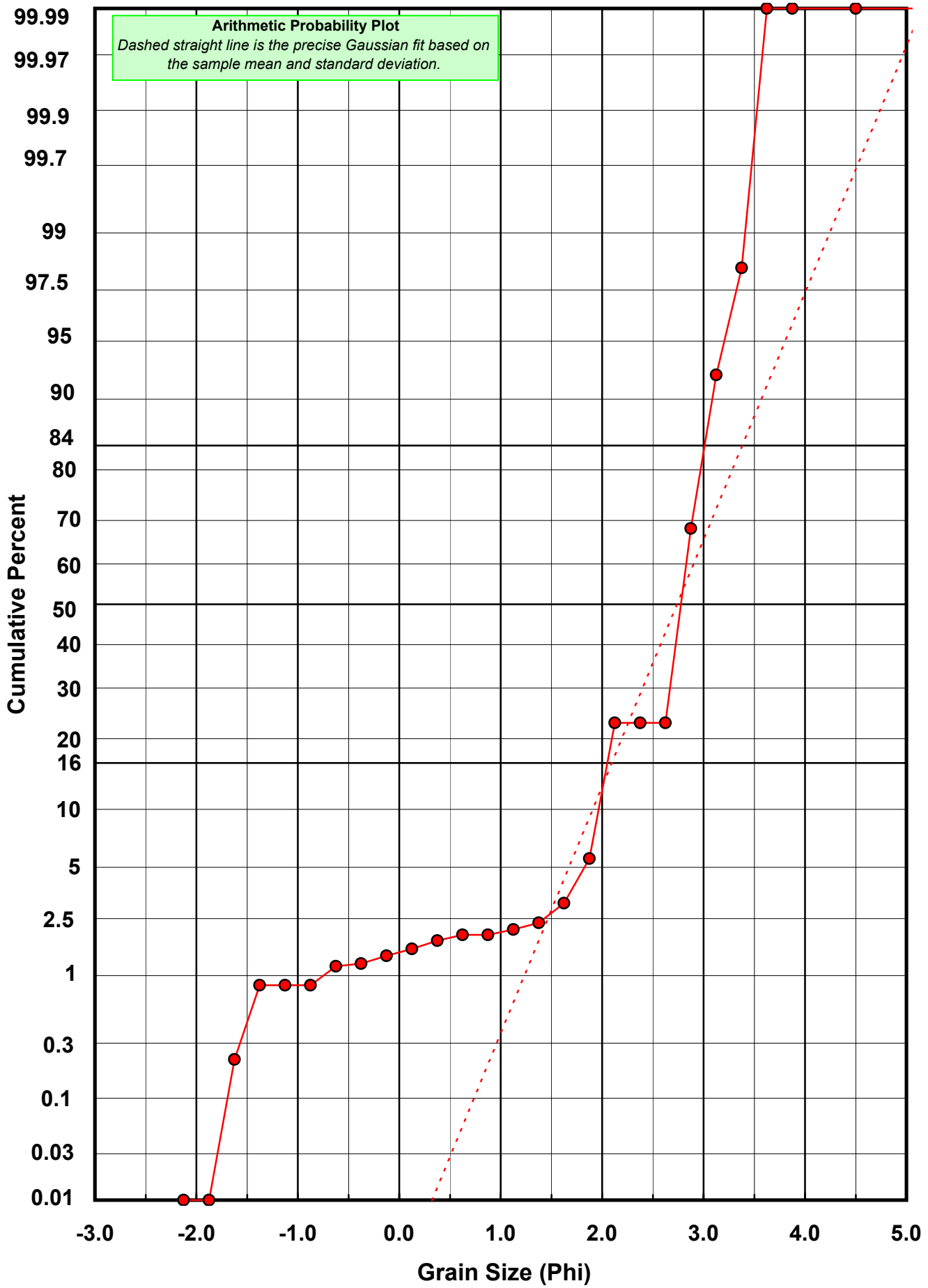
Statistical Results			
Mean:	2.7377	phi	(0.1499 mm)
Standard Dev:	0.6485	phi-units	(0.638 mm)
Skewness:	-3.3590	dimensionless	
Kurtosis:	19.6683	dimensionless	
5th Moment:	-116.5729	dimensionless	
6th Moment:	718.3164	dimensionless	
RARD *	0.2369	dimensionless	
Median	2.7746	phi	(0.1461 mm)

\* 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-29-BB

Total Digested Mass: 64.372 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	0.001	0.002	0.002
-1.00	-1.125	0.001	0.002	0.003
-0.75	-0.875	0.000	0.000	0.003
-0.50	-0.625	0.000	0.000	0.003
-0.25	-0.375	0.006	0.009	0.012
0.00	-0.125	0.002	0.003	0.016
0.25	0.125	0.003	0.005	0.020
0.50	0.375	0.004	0.006	0.026
0.75	0.625	0.005	0.008	0.034
1.00	0.875	0.006	0.009	0.043
1.25	1.125	0.004	0.006	0.050
1.50	1.375	0.009	0.014	0.064
1.75	1.625	0.036	0.056	0.120
2.00	1.875	0.412	0.640	0.760
2.25	2.125	2.741	4.258	5.018
2.50	2.375	11.905	18.494	23.512
2.75	2.625	25.550	39.691	63.203
3.00	2.875	17.904	27.813	91.016
3.25	3.125	4.040	6.276	97.292
3.50	3.375	0.908	1.411	98.703
3.75	3.625	0.553	0.859	99.562
4.00	3.875	0.282	0.438	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6763	phi	(0.1564 mm)
Standard Dev:	0.2908	phi-units	(0.8174 mm)
Skewness:	0.1172	dimensionless	
Kurtosis:	7.8626	dimensionless	
5th Moment:	-28.5412	dimensionless	
6th Moment:	442.4818	dimensionless	
RARD *	0.1087	dimensionless	
Median	2.5418	phi	(0.1717 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)

