

**Onshore Grab Sample**

**Sample:** VO-51-SS  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/3/03  
**Splits?** Yes

**County:** Volusia  
**Latitude:** 28° 51' 05.70"  
**Longitude:** 80° 46' 18.96"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 97.978 grams  
Total Fines in Sample 0.775 grams  
Total Percent Fines 0.78 %

**Dry Sieving Summary**

Total Sample Weight 97.384 grams  
Total Digested Weight 25.737 grams  
Total Carbonate Weight 71.647 grams  
Total Silica % 26.43 %  
Total Carbonate % 73.57 %  
Carbonate/Silica Ratio 2.784

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-51-SS

Total Sample Mass: 97.384 grams

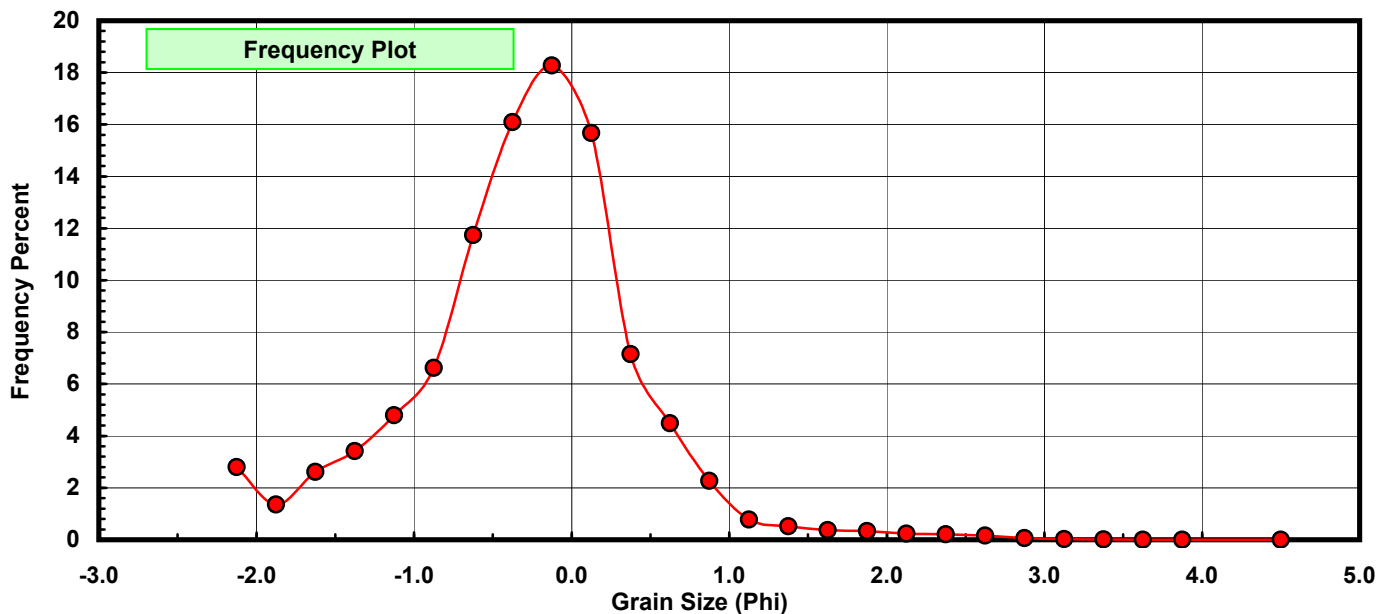
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	2.730	2.803	2.803
-1.75	-1.875	1.324	1.360	4.163
-1.50	-1.625	2.545	2.613	6.776
-1.25	-1.375	3.322	3.411	10.188
-1.00	-1.125	4.674	4.800	14.987
-0.75	-0.875	6.448	6.621	21.608
-0.50	-0.625	11.434	11.741	33.349
-0.25	-0.375	15.668	16.089	49.438
0.00	-0.125	17.793	18.271	67.709
0.25	0.125	15.263	15.673	83.382
0.50	0.375	6.961	7.148	90.530
0.75	0.625	4.369	4.486	95.017
1.00	0.875	2.210	2.269	97.286
1.25	1.125	0.755	0.775	98.061
1.50	1.375	0.507	0.521	98.582
1.75	1.625	0.364	0.374	98.956
2.00	1.875	0.324	0.333	99.288
2.25	2.125	0.234	0.240	99.529
2.50	2.375	0.205	0.211	99.739
2.75	2.625	0.152	0.156	99.895
3.00	2.875	0.062	0.064	99.959
3.25	3.125	0.019	0.020	99.978
3.50	3.375	0.007	0.007	99.986
3.75	3.625	0.006	0.006	99.992
4.00	3.875	0.004	0.004	99.996
5.00	4.500	0.004	0.004	100.000

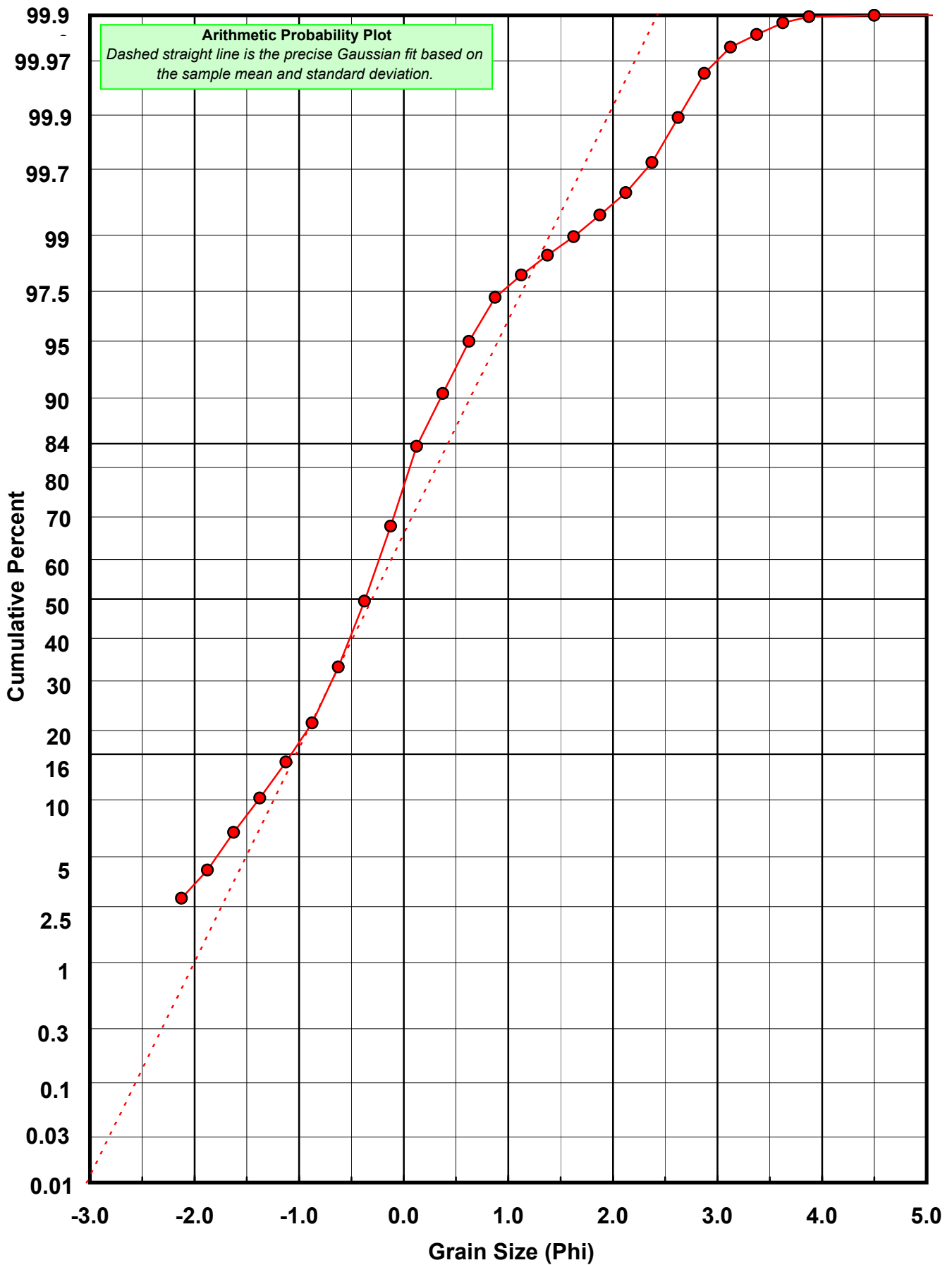
Statistical Results			
Mean:	-0.3030	phi	(1.2337 mm)
Standard Dev:	0.7326	phi-units	(0.6018 mm)
Skewness:	0.0159	dimensionless	
Kurtosis:	4.5778	dimensionless	
5th Moment:	4.7567	dimensionless	
6th Moment:	43.2402	dimensionless	
RARD *	2.4180	dimensionless	
Median	-0.3673	phi	(1.2899 mm)

\* 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-51-SS

Total Carbonate Mass: 71.790 grams

% Carbonate: 73.6 %

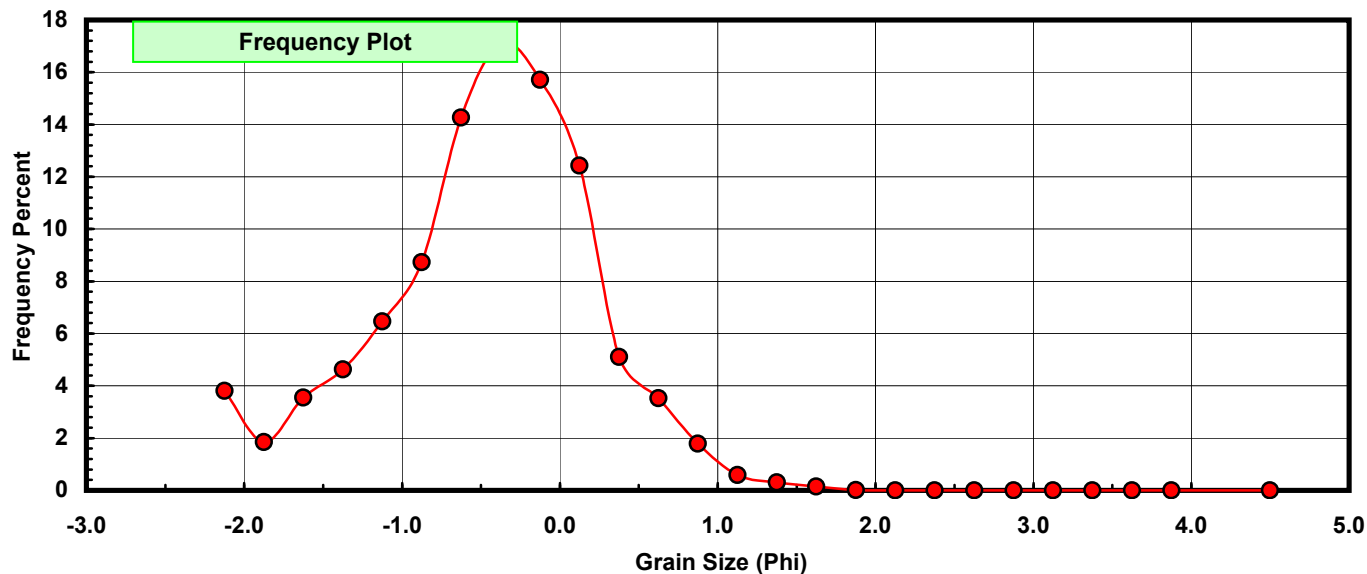
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	2.730	3.803	3.803
-1.75	-1.875	1.324	1.844	5.647
-1.50	-1.625	2.545	3.545	9.192
-1.25	-1.375	3.322	4.627	13.819
-1.00	-1.125	4.639	6.462	20.281
-0.75	-0.875	6.264	8.725	29.007
-0.50	-0.625	10.242	14.267	43.273
-0.25	-0.375	12.288	17.117	60.390
0.00	-0.125	11.278	15.710	76.100
0.25	0.125	8.925	12.432	88.532
0.50	0.375	3.667	5.108	93.640
0.75	0.625	2.536	3.533	97.172
1.00	0.875	1.280	1.783	98.955
1.25	1.125	0.419	0.584	99.539
1.50	1.375	0.219	0.305	99.844
1.75	1.625	0.102	0.142	99.986
2.00	1.875	0.010	0.014	100.000
2.25	2.125	0.000	0.000	100.000
2.50	2.375	0.000	0.000	100.000
2.75	2.625	0.000	0.000	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

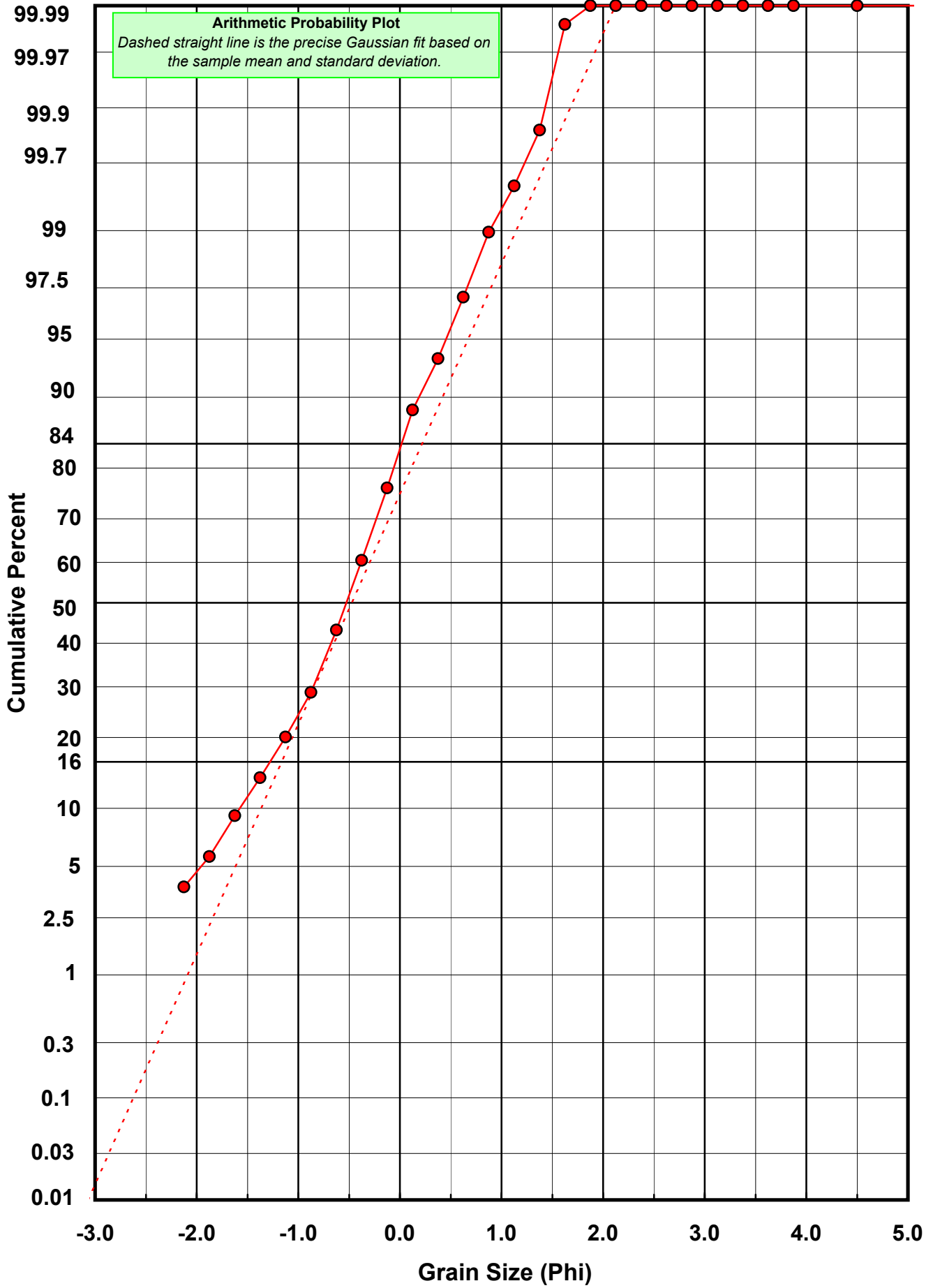
Statistical Results			
Mean:	-0.4730	phi	(1.3879 mm)
Standard Dev:	0.6968	phi-units	(0.6169 mm)
Skewness:	-0.3646	dimensionless	
Kurtosis:	3.1051	dimensionless	
5th Moment:	-1.9345	dimensionless	
6th Moment:	14.0266	dimensionless	
RARD *	1.4733	dimensionless	
Median	-0.5268	phi	(1.4407 mm)

\* 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-51-SS

Total Digested Mass: 25.736 grams

% Silica: 26.4 %

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	0.035	0.136	0.136
-0.75	-0.875	0.184	0.715	0.851
-0.50	-0.625	1.192	4.632	5.483
-0.25	-0.375	3.380	13.133	18.616
0.00	-0.125	6.515	25.315	43.931
0.25	0.125	6.338	24.627	68.558
0.50	0.375	3.294	12.799	81.357
0.75	0.625	1.833	7.122	88.479
1.00	0.875	0.930	3.614	92.093
1.25	1.125	0.336	1.306	93.398
1.50	1.375	0.288	1.119	94.517
1.75	1.625	0.262	1.018	95.535
2.00	1.875	0.314	1.220	96.756
2.25	2.125	0.262	1.018	97.774
2.50	2.375	0.236	0.917	98.691
2.75	2.625	0.180	0.699	99.390
3.00	2.875	0.091	0.354	99.744
3.25	3.125	0.035	0.136	99.880
3.50	3.375	0.014	0.054	99.934
3.75	3.625	0.009	0.035	99.969
4.00	3.875	0.008	0.031	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.1873	phi	(0.8783 mm)
Standard Dev:	0.6461	phi-units	(0.639 mm)
Skewness:	1.8950	dimensionless	
Kurtosis:	7.6604	dimensionless	
5th Moment:	27.0191	dimensionless	
6th Moment:	108.6534	dimensionless	
RARD *	3.4502	dimensionless	
Median	-0.0634	phi	(1.0449 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)
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> 1.33	Poor homogeneity (e.g., glacial)

