

**Onshore Grab Sample**

**Sample:** VO-08-SS  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/3/03  
**Splits?** N/A

**County:** Volusia  
**Latitude:** 29° 19' 58.26"  
**Longitude:** 81° 03' 29.70"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 94.799 grams  
Total Fines in Sample 0.782 grams  
Total Percent Fines 0.82 %

**Dry Sieving Summary**

Total Sample Weight 93.913 grams  
Total Digested Weight 61.246 grams  
Total Carbonate Weight 32.667 grams  
Total Silica % 65.22 %  
Total Carbonate % 34.78 %  
Carbonate/Silica Ratio 0.533

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-08-SS

Total Sample Mass: 93.913 grams

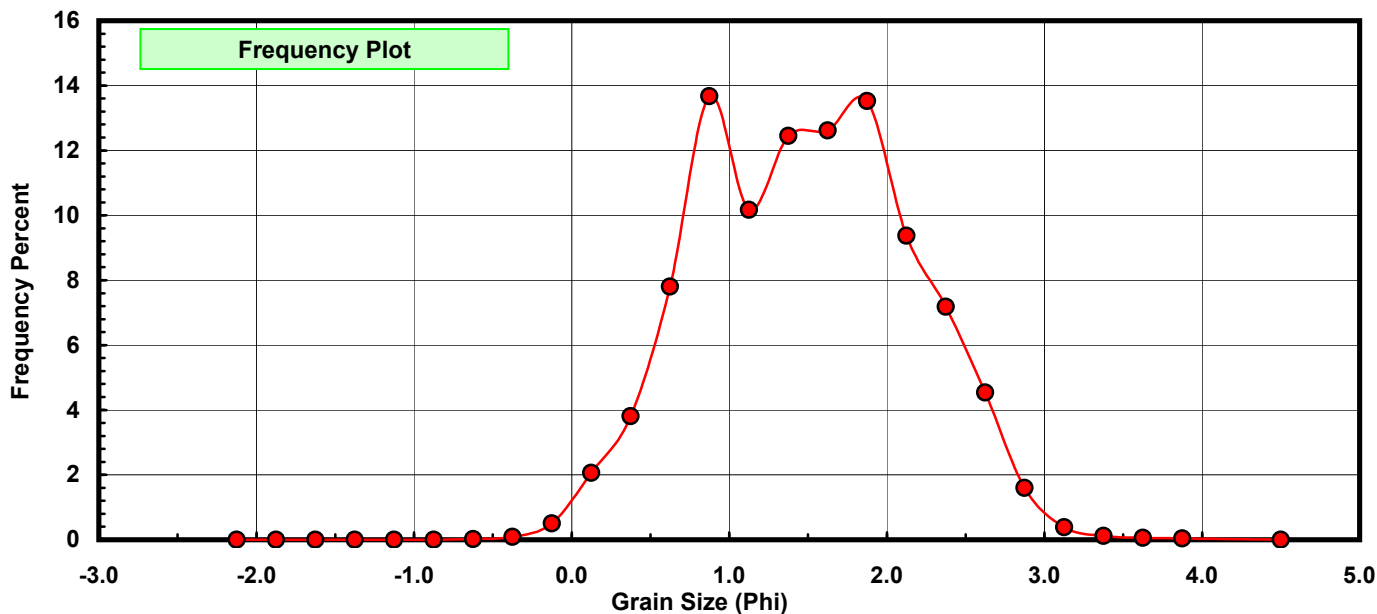
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.017	0.018	0.018
-0.25	-0.375	0.088	0.094	0.112
0.00	-0.125	0.472	0.503	0.614
0.25	0.125	1.935	2.060	2.675
0.50	0.375	3.576	3.808	6.483
0.75	0.625	7.325	7.800	14.282
1.00	0.875	12.836	13.668	27.950
1.25	1.125	9.549	10.168	38.118
1.50	1.375	11.687	12.444	50.563
1.75	1.625	11.850	12.618	63.181
2.00	1.875	12.704	13.527	76.708
2.25	2.125	8.799	9.369	86.078
2.50	2.375	6.746	7.183	93.261
2.75	2.625	4.263	4.539	97.800
3.00	2.875	1.499	1.596	99.396
3.25	3.125	0.359	0.382	99.779
3.50	3.375	0.109	0.116	99.895
3.75	3.625	0.058	0.062	99.956
4.00	3.875	0.041	0.044	100.000
5.00	4.500	0.000	0.000	100.000

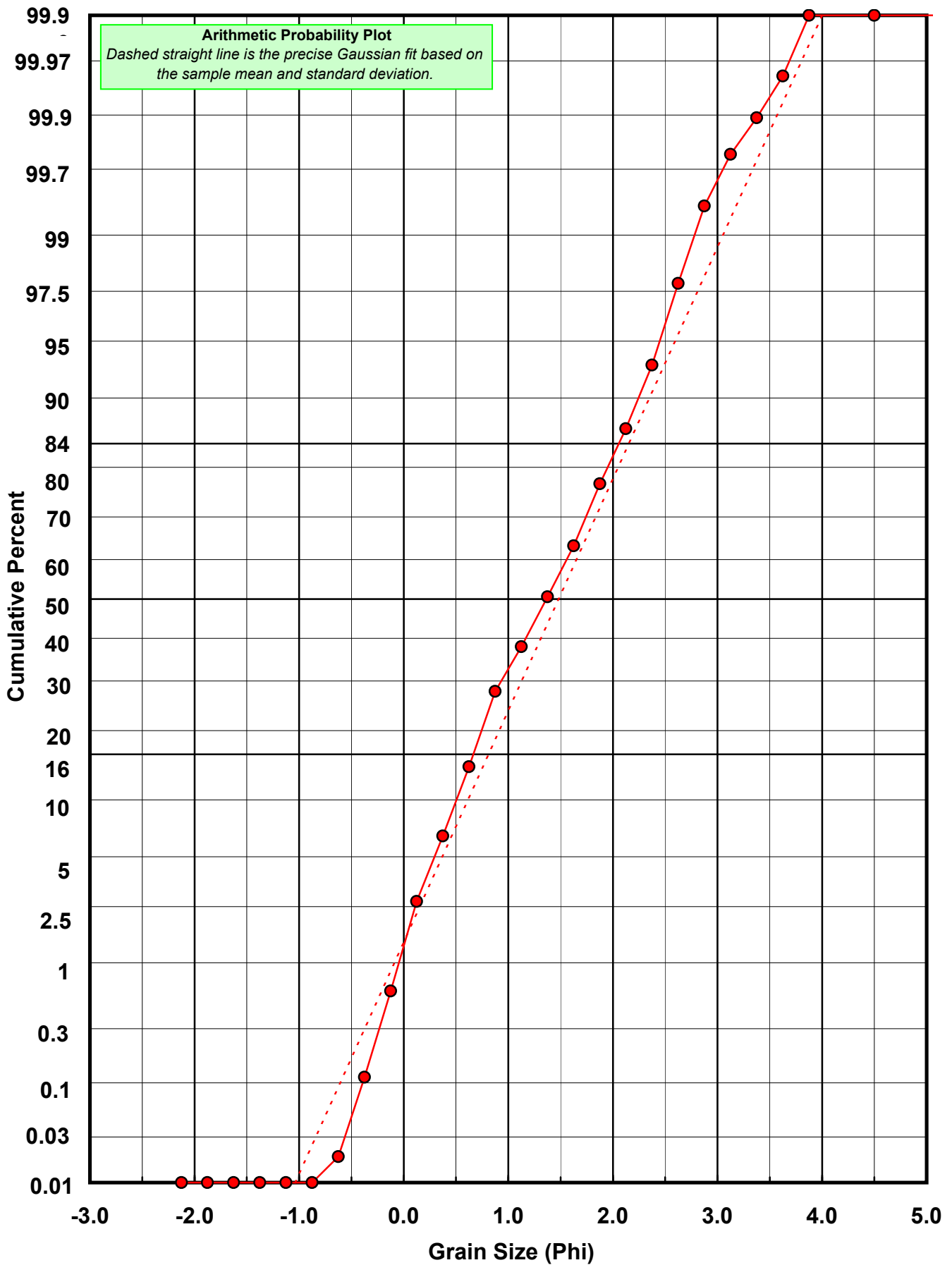
Statistical Results			
Mean:	1.4828	phi	(0.3578 mm)
Standard Dev:	0.6768	phi-units	(0.6255 mm)
Skewness:	0.0495	dimensionless	
Kurtosis:	2.4572	dimensionless	
5th Moment:	0.5023	dimensionless	
6th Moment:	9.5561	dimensionless	
RARD *	0.4564	dimensionless	
Median	1.3637	phi	(0.3886 mm)

\* 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-08-SS

Total Carbonate Mass: 32.770 grams

% Carbonate: 34.8 %

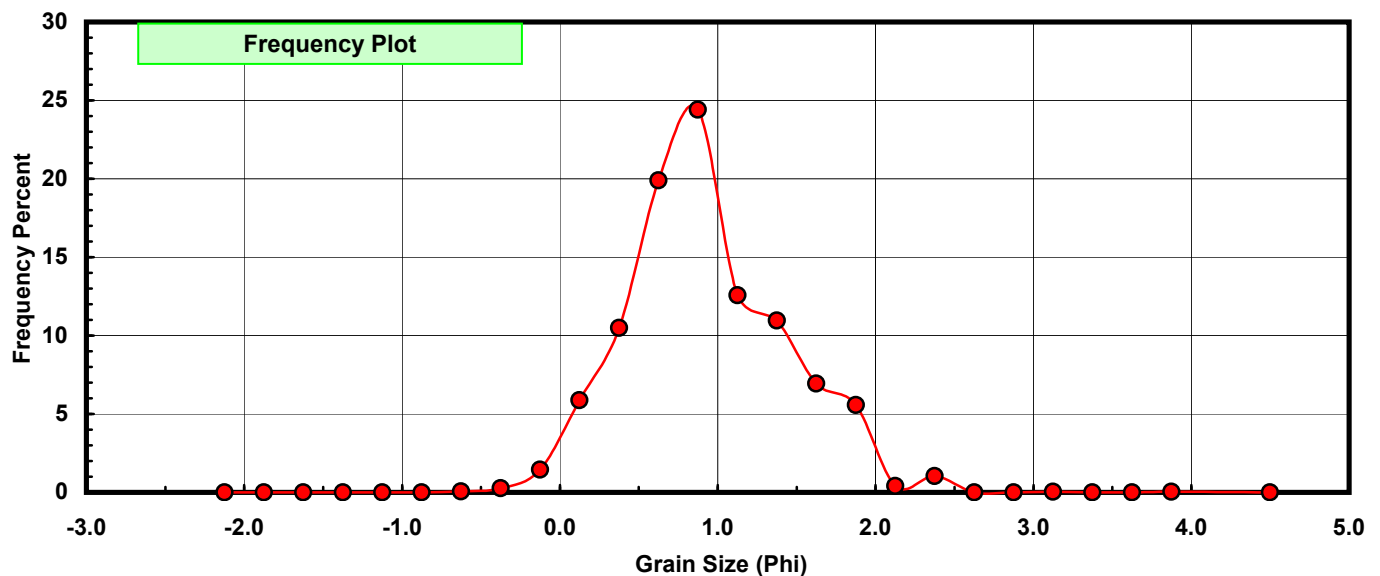
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.017	0.052	0.052
-0.25	-0.375	0.088	0.269	0.320
0.00	-0.125	0.472	1.440	1.761
0.25	0.125	1.924	5.871	7.632
0.50	0.375	3.438	10.491	18.123
0.75	0.625	6.522	19.902	38.026
1.00	0.875	7.996	24.400	62.426
1.25	1.125	4.119	12.569	74.995
1.50	1.375	3.594	10.967	85.963
1.75	1.625	2.274	6.939	92.902
2.00	1.875	1.829	5.581	98.483
2.25	2.125	0.133	0.406	98.889
2.50	2.375	0.339	1.034	99.924
2.75	2.625	0.000	0.000	99.924
3.00	2.875	0.000	0.000	99.924
3.25	3.125	0.011	0.034	99.957
3.50	3.375	0.000	0.000	99.957
3.75	3.625	0.000	0.000	99.957
4.00	3.875	0.014	0.043	100.000
5.00	4.500	0.000	0.000	100.000

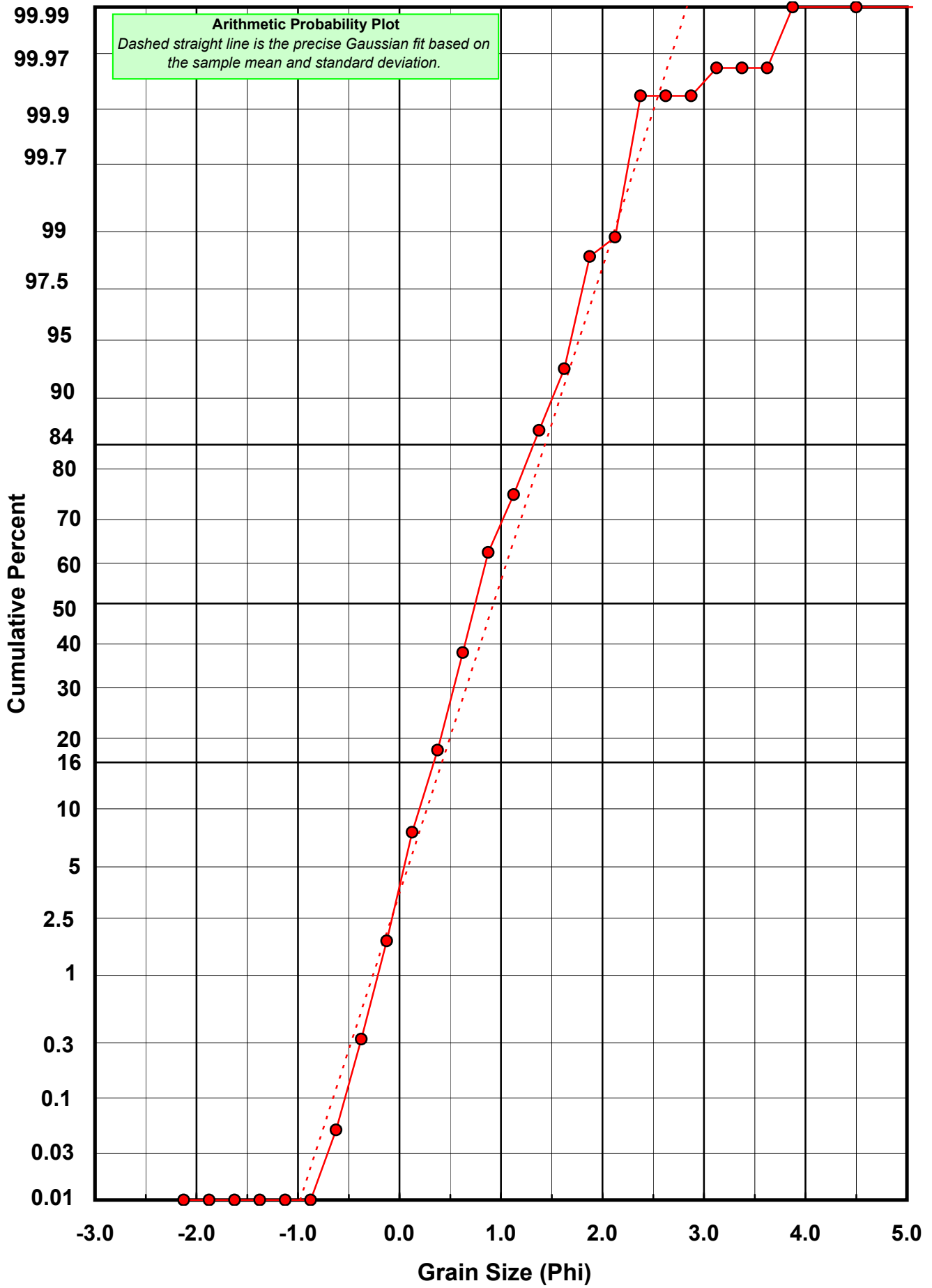
Statistical Results			
Mean:	0.9270	phi	(0.526 mm)
Standard Dev:	0.5119	phi-units	(0.7013 mm)
Skewness:	0.4370	dimensionless	
Kurtosis:	3.3674	dimensionless	
5th Moment:	5.4545	dimensionless	
6th Moment:	30.5958	dimensionless	
RARD *	0.5522	dimensionless	
Median	0.7477	phi	(0.5956 mm)

\* 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-08-SS

Total Digested Mass: 61.246 grams

% Silica: 65.2 %

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	0.011	0.018	0.018
0.50	0.375	0.138	0.225	0.243
0.75	0.625	0.803	1.311	1.554
1.00	0.875	4.840	7.903	9.457
1.25	1.125	5.430	8.866	18.323
1.50	1.375	8.093	13.214	31.537
1.75	1.625	9.576	15.635	47.172
2.00	1.875	10.875	17.756	64.928
2.25	2.125	8.666	14.149	79.078
2.50	2.375	6.407	10.461	89.539
2.75	2.625	4.277	6.983	96.522
3.00	2.875	1.575	2.572	99.094
3.25	3.125	0.348	0.568	99.662
3.50	3.375	0.111	0.181	99.843
3.75	3.625	0.069	0.113	99.956
4.00	3.875	0.027	0.044	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.7827	phi	(0.2906 mm)
Standard Dev:	0.5591	phi-units	(0.6787 mm)
Skewness:	0.0792	dimensionless	
Kurtosis:	2.5584	dimensionless	
5th Moment:	1.1117	dimensionless	
6th Moment:	10.7205	dimensionless	
RARD *	0.3136	dimensionless	
Median	1.6648	phi	(0.3154 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)

