

Onshore Grab Sample

Sample: VO-39-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Volusia
Latitude: 28° 58' 40.62"
Longitude: 80° 51' 27.78"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 72.938 grams
Total Fines in Sample 0.206 grams
Total Percent Fines 0.28 %

Dry Sieving Summary

Total Sample Weight 72.858 grams
Total Digested Weight 59.347 grams
Total Carbonate Weight 13.511 grams
Total Silica % 81.46 %
Total Carbonate % 18.54 %
Carbonate/Silica Ratio 0.228

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-39-BB

Total Sample Mass: 72.858 grams

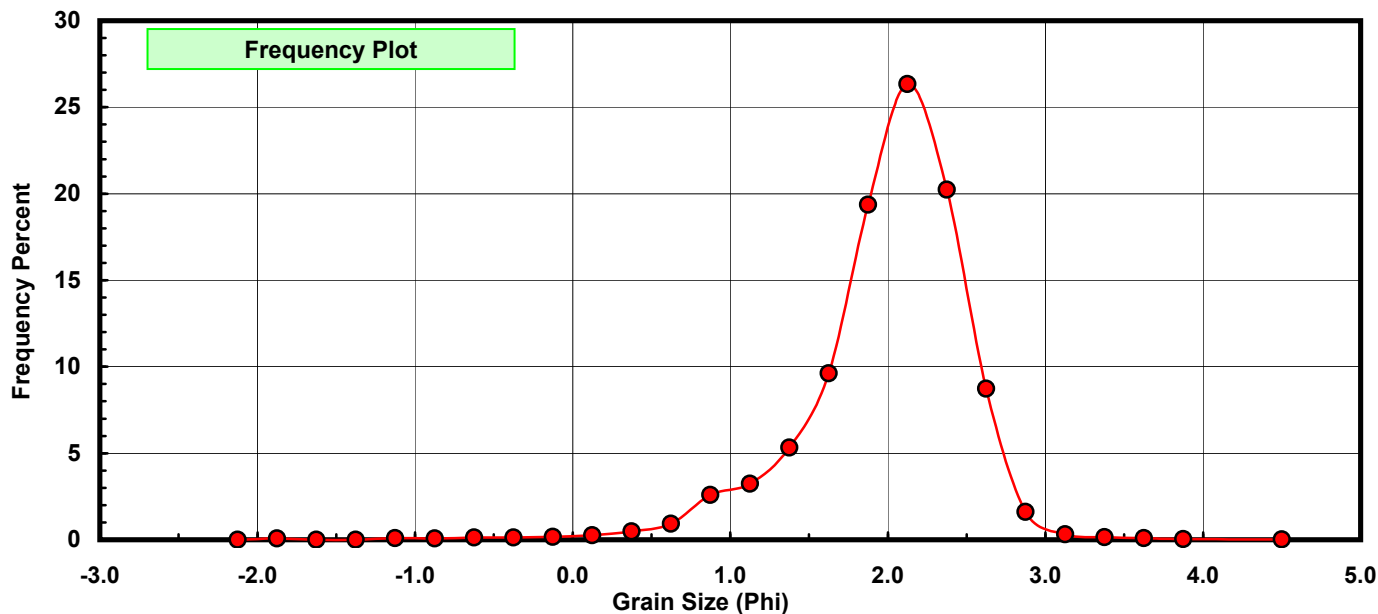
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.053	0.073	0.073
-1.50	-1.625	0.000	0.000	0.073
-1.25	-1.375	0.000	0.000	0.073
-1.00	-1.125	0.072	0.099	0.172
-0.75	-0.875	0.054	0.074	0.246
-0.50	-0.625	0.097	0.133	0.379
-0.25	-0.375	0.089	0.122	0.501
0.00	-0.125	0.121	0.166	0.667
0.25	0.125	0.188	0.258	0.925
0.50	0.375	0.344	0.472	1.397
0.75	0.625	0.677	0.929	2.326
1.00	0.875	1.887	2.590	4.916
1.25	1.125	2.357	3.235	8.151
1.50	1.375	3.878	5.323	13.474
1.75	1.625	7.006	9.616	23.090
2.00	1.875	14.111	19.368	42.458
2.25	2.125	19.186	26.333	68.791
2.50	2.375	14.737	20.227	89.018
2.75	2.625	6.367	8.739	97.757
3.00	2.875	1.172	1.609	99.366
3.25	3.125	0.234	0.321	99.687
3.50	3.375	0.113	0.155	99.842
3.75	3.625	0.073	0.100	99.942
4.00	3.875	0.030	0.041	99.984
5.00	4.500	0.012	0.016	100.000

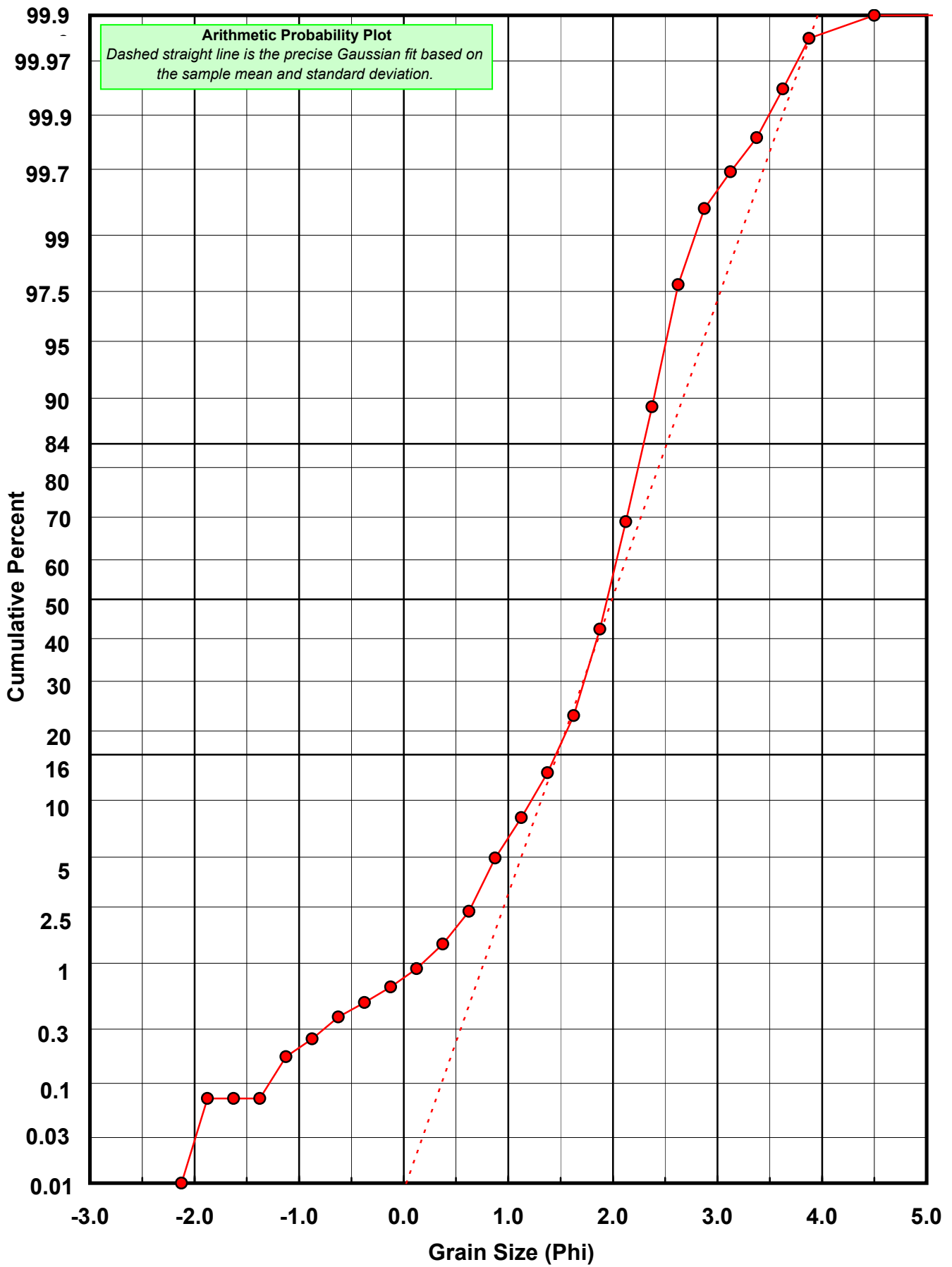
Statistical Results			
Mean:	1.9918	phi	(0.2514 mm)
Standard Dev:	0.5284	phi-units	(0.6933 mm)
Skewness:	-1.4892	dimensionless	
Kurtosis:	8.6158	dimensionless	
5th Moment:	-37.8765	dimensionless	
6th Moment:	231.7332	dimensionless	
RARD *	0.2653	dimensionless	
Median	1.9466	phi	(0.2594 mm)

* 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-39-BB

Total Carbonate Mass: 13.523 grams

% Carbonate: 18.5 %

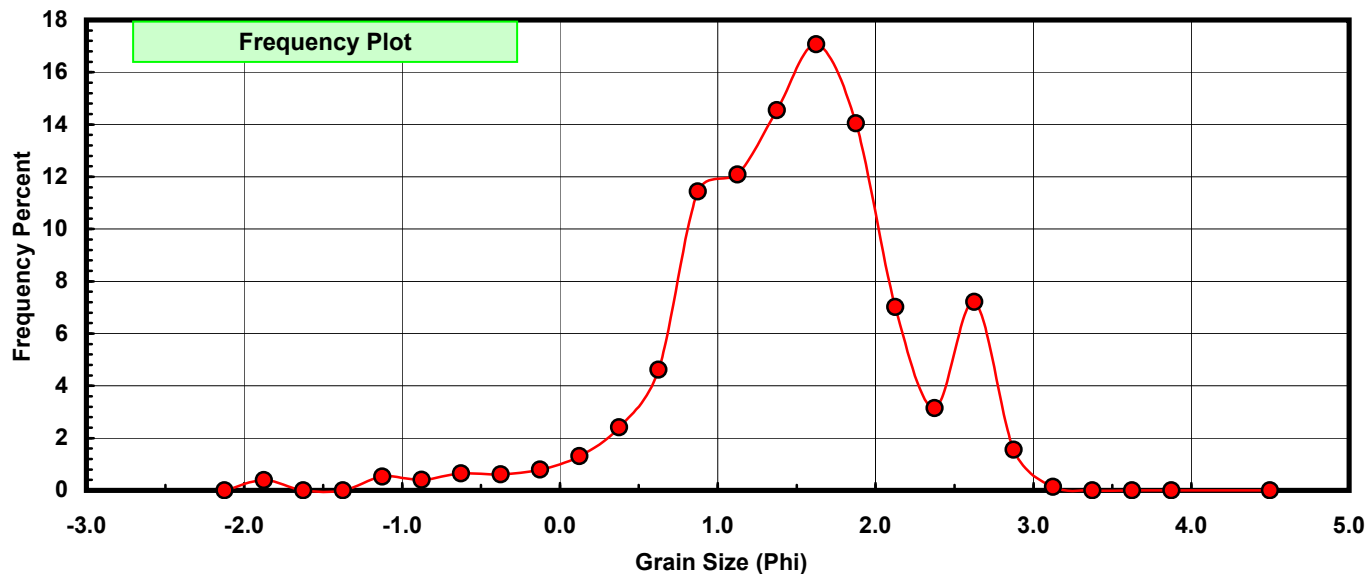
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.053	0.392	0.392
-1.50	-1.625	0.000	0.000	0.392
-1.25	-1.375	0.000	0.000	0.392
-1.00	-1.125	0.072	0.532	0.924
-0.75	-0.875	0.054	0.399	1.324
-0.50	-0.625	0.088	0.651	1.974
-0.25	-0.375	0.083	0.614	2.588
0.00	-0.125	0.108	0.799	3.387
0.25	0.125	0.178	1.316	4.703
0.50	0.375	0.326	2.411	7.114
0.75	0.625	0.624	4.614	11.728
1.00	0.875	1.546	11.432	23.161
1.25	1.125	1.634	12.083	35.244
1.50	1.375	1.968	14.553	49.797
1.75	1.625	2.309	17.075	66.871
2.00	1.875	1.899	14.043	80.914
2.25	2.125	0.949	7.018	87.932
2.50	2.375	0.426	3.150	91.082
2.75	2.625	0.976	7.217	98.299
3.00	2.875	0.211	1.560	99.859
3.25	3.125	0.019	0.141	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

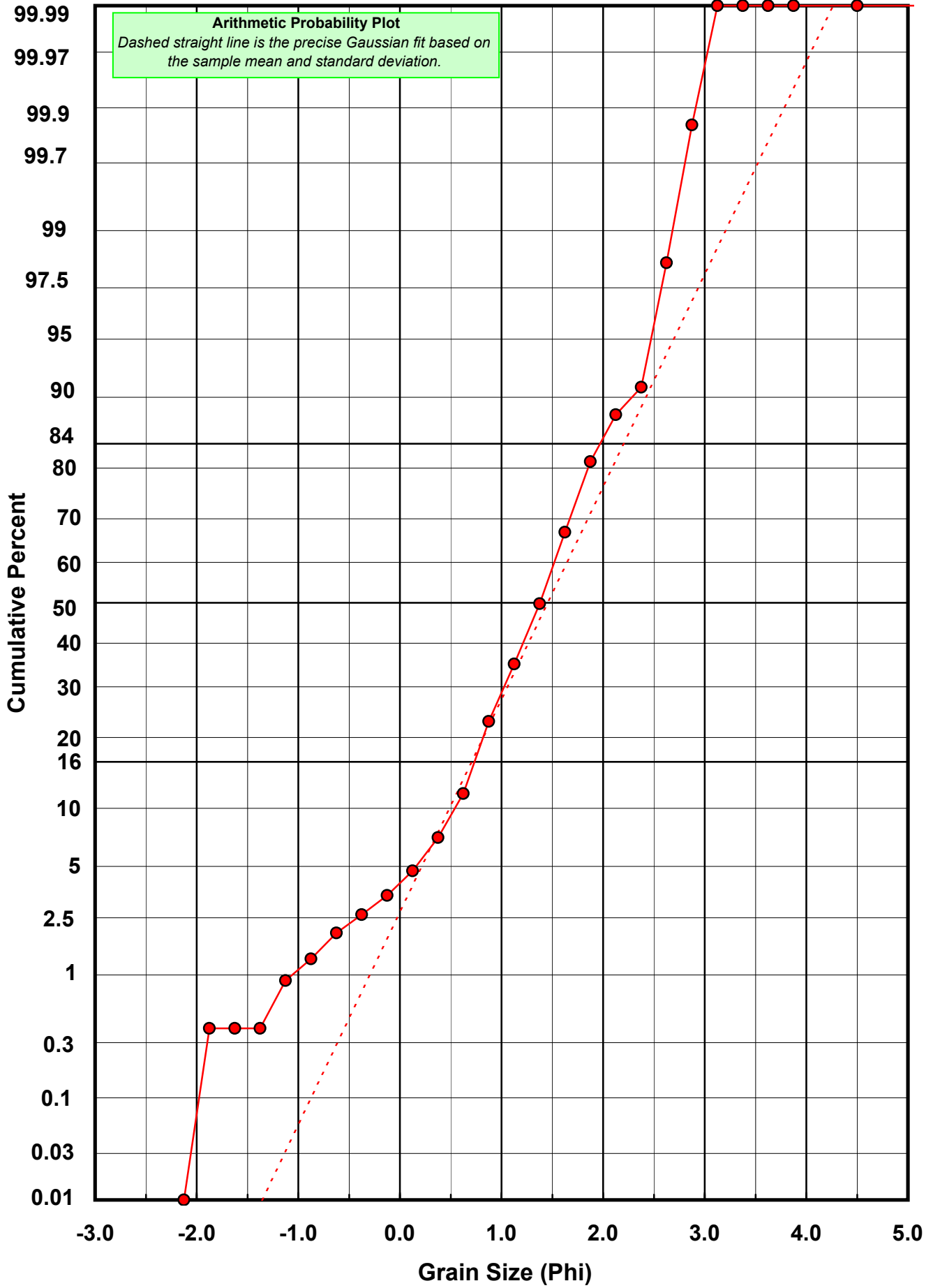
Statistical Results			
Mean:	1.4548	phi	(0.3648 mm)
Standard Dev:	0.7544	phi-units	(0.5928 mm)
Skewness:	-0.7666	dimensionless	
Kurtosis:	4.7906	dimensionless	
5th Moment:	-12.2071	dimensionless	
6th Moment:	52.3320	dimensionless	
RARD *	0.5185	dimensionless	
Median	1.3780	phi	(0.3848 mm)

* 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-39-BB

Total Digested Mass: 59.334 grams

% Silica: 81.5 %

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	0.009	0.015	0.015
-0.25	-0.375	0.006	0.010	0.025
0.00	-0.125	0.013	0.022	0.047
0.25	0.125	0.010	0.017	0.064
0.50	0.375	0.018	0.030	0.094
0.75	0.625	0.053	0.089	0.184
1.00	0.875	0.341	0.575	0.758
1.25	1.125	0.723	1.219	1.977
1.50	1.375	1.910	3.219	5.196
1.75	1.625	4.697	7.916	13.112
2.00	1.875	12.212	20.582	33.694
2.25	2.125	18.237	30.736	64.430
2.50	2.375	14.311	24.119	88.550
2.75	2.625	5.391	9.086	97.635
3.00	2.875	0.961	1.620	99.255
3.25	3.125	0.215	0.362	99.617
3.50	3.375	0.118	0.199	99.816
3.75	3.625	0.076	0.128	99.944
4.00	3.875	0.033	0.056	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.1140	phi	(0.231 mm)
Standard Dev:	0.3726	phi-units	(0.7724 mm)
Skewness:	-0.4330	dimensionless	
Kurtosis:	5.3440	dimensionless	
5th Moment:	-8.8432	dimensionless	
6th Moment:	87.8750	dimensionless	
RARD *	0.1763	dimensionless	
Median	2.0076	phi	(0.2487 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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