

Onshore Grab Sample

Sample: VO-43-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Volusia
Latitude: 28° 56' 3.30"
Longitude: 80° 49' 37.98"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 99.111 grams
Total Fines in Sample 0.649 grams
Total Percent Fines 0.65 %

Dry Sieving Summary

Total Sample Weight 98.534 grams
Total Digested Weight 47.215 grams
Total Carbonate Weight 51.319 grams
Total Silica % 47.92 %
Total Carbonate % 52.08 %
Carbonate/Silica Ratio 1.087

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-43-SS

Total Sample Mass: 98.534 grams

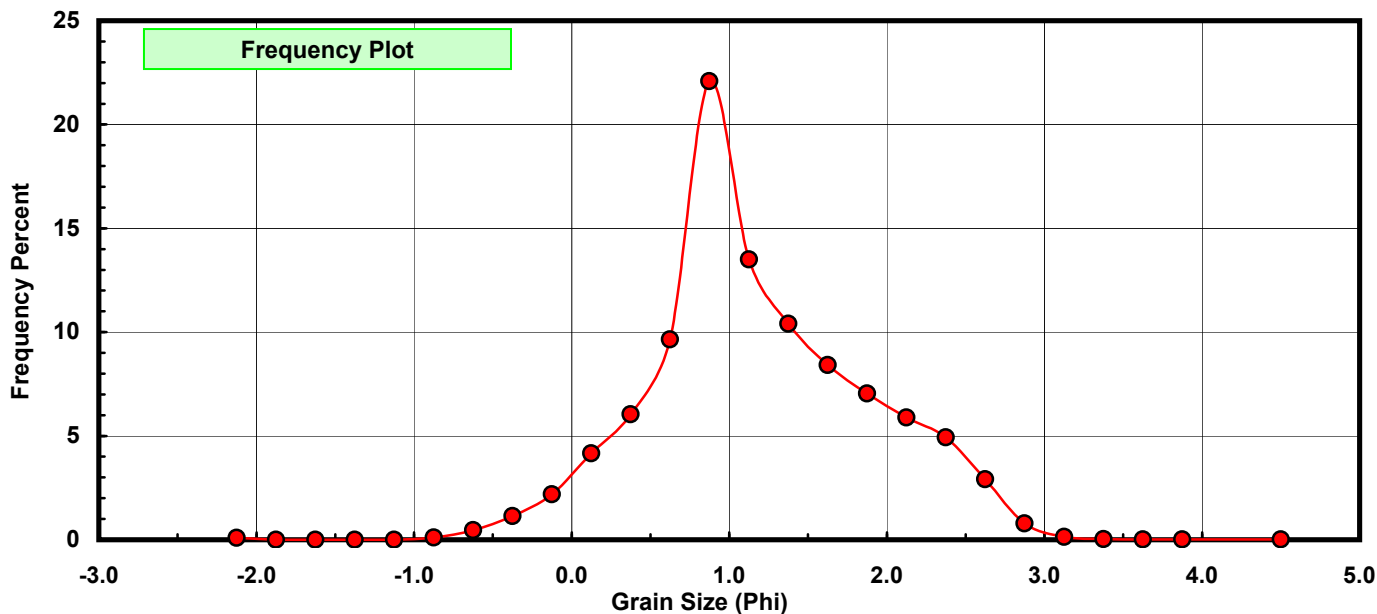
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.093	0.094	0.094
-1.75	-1.875	0.000	0.000	0.094
-1.50	-1.625	0.000	0.000	0.094
-1.25	-1.375	0.000	0.000	0.094
-1.00	-1.125	0.000	0.000	0.094
-0.75	-0.875	0.104	0.106	0.200
-0.50	-0.625	0.455	0.462	0.662
-0.25	-0.375	1.125	1.142	1.803
0.00	-0.125	2.150	2.182	3.985
0.25	0.125	4.098	4.159	8.144
0.50	0.375	5.959	6.048	14.192
0.75	0.625	9.511	9.653	23.845
1.00	0.875	21.756	22.080	45.924
1.25	1.125	13.305	13.503	59.427
1.50	1.375	10.250	10.403	69.830
1.75	1.625	8.285	8.408	78.238
2.00	1.875	6.933	7.036	85.274
2.25	2.125	5.805	5.891	91.165
2.50	2.375	4.861	4.933	96.099
2.75	2.625	2.870	2.913	99.012
3.00	2.875	0.781	0.793	99.804
3.25	3.125	0.141	0.143	99.947
3.50	3.375	0.024	0.024	99.972
3.75	3.625	0.010	0.010	99.982
4.00	3.875	0.009	0.009	99.991
5.00	4.500	0.009	0.009	100.000

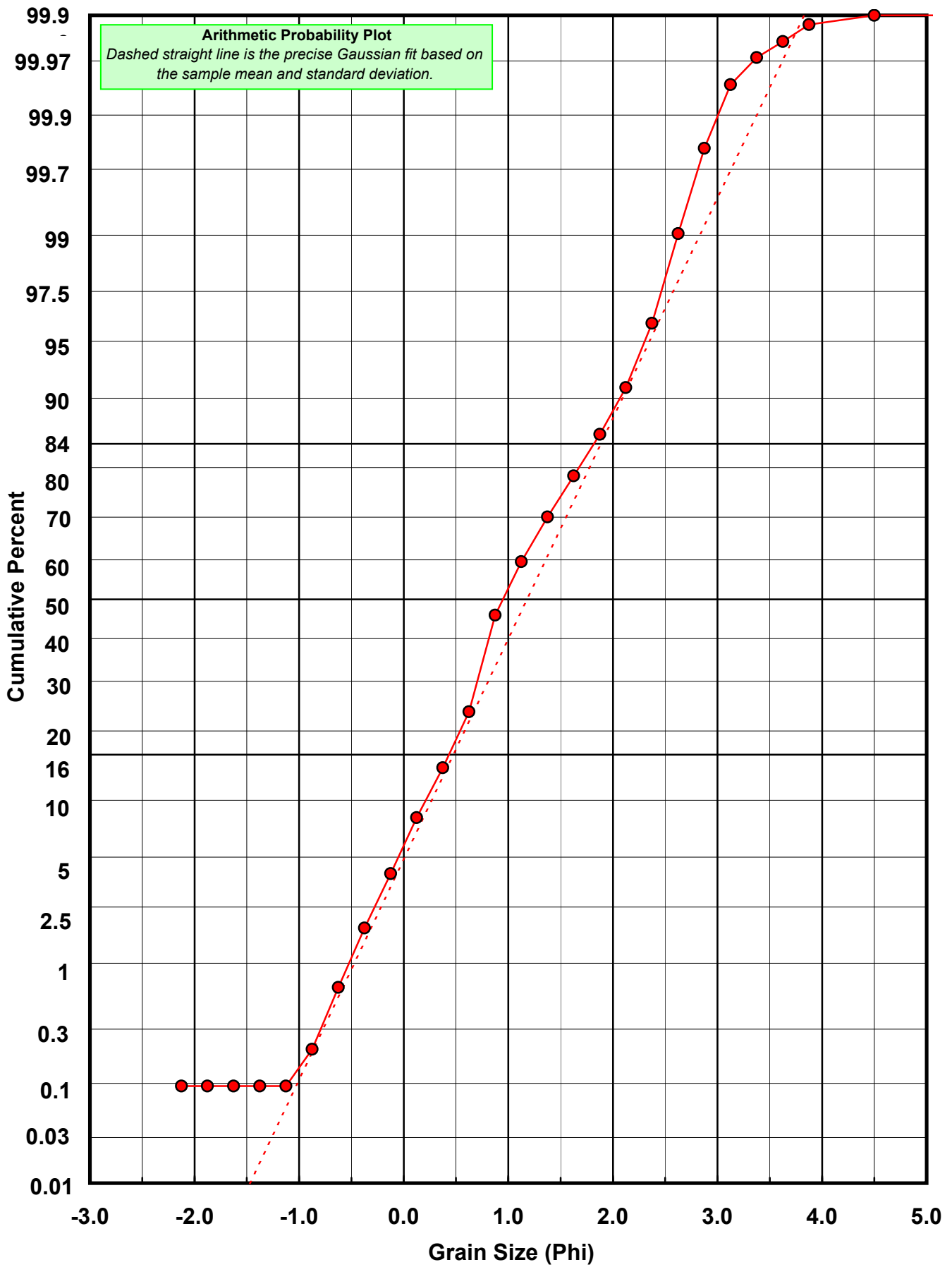
Statistical Results			
Mean:	1.1801	phi	(0.4413 mm)
Standard Dev:	0.7113	phi-units	(0.6108 mm)
Skewness:	0.1312	dimensionless	
Kurtosis:	3.1726	dimensionless	
5th Moment:	-1.0196	dimensionless	
6th Moment:	21.4186	dimensionless	
RARD *	0.6028	dimensionless	
Median	0.9505	phi	(0.5175 mm)

* 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-43-SS

Total Carbonate Mass: 51.334 grams

% Carbonate: 52.1 %

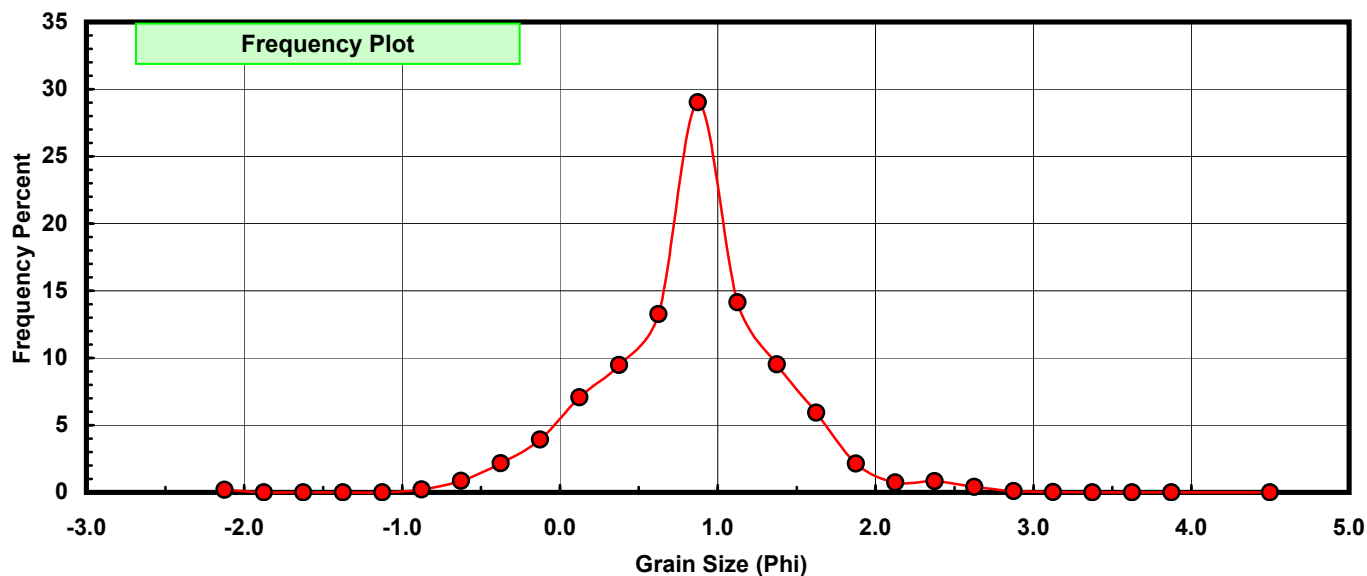
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.093	0.181	0.181
-1.75	-1.875	0.000	0.000	0.181
-1.50	-1.625	0.000	0.000	0.181
-1.25	-1.375	0.000	0.000	0.181
-1.00	-1.125	0.000	0.000	0.181
-0.75	-0.875	0.104	0.203	0.384
-0.50	-0.625	0.441	0.859	1.243
-0.25	-0.375	1.109	2.160	3.403
0.00	-0.125	2.015	3.925	7.328
0.25	0.125	3.636	7.083	14.412
0.50	0.375	4.864	9.475	23.887
0.75	0.625	6.809	13.264	37.151
1.00	0.875	14.901	29.028	66.178
1.25	1.125	7.255	14.133	80.311
1.50	1.375	4.889	9.524	89.835
1.75	1.625	3.041	5.924	95.759
2.00	1.875	1.094	2.131	97.890
2.25	2.125	0.383	0.746	98.636
2.50	2.375	0.430	0.838	99.474
2.75	2.625	0.203	0.395	99.869
3.00	2.875	0.053	0.103	99.973
3.25	3.125	0.014	0.027	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

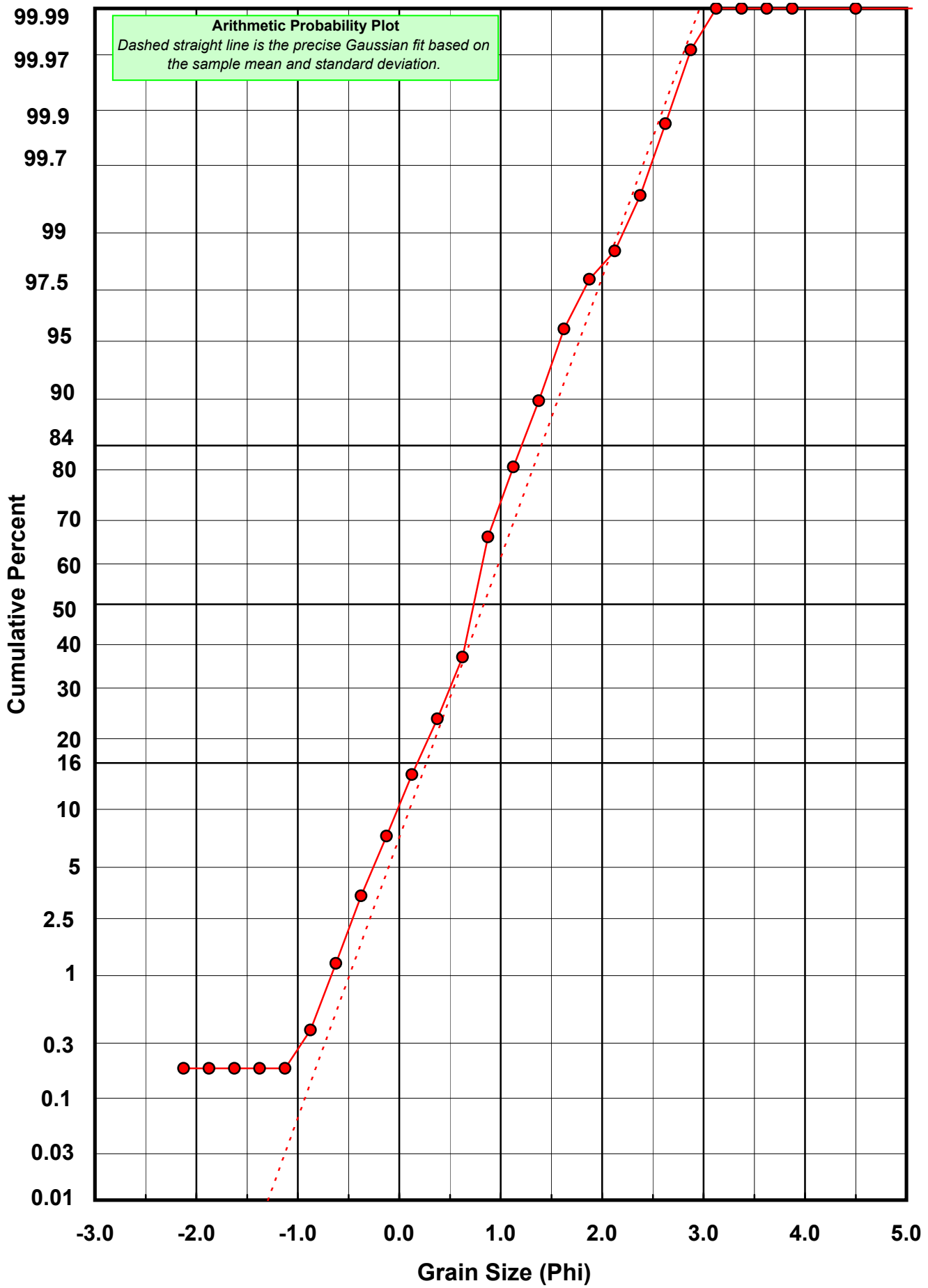
Statistical Results			
Mean:	0.8334	phi	(0.5612 mm)
Standard Dev:	0.5716	phi-units	(0.6729 mm)
Skewness:	-0.2083	dimensionless	
Kurtosis:	4.6647	dimensionless	
5th Moment:	-5.3969	dimensionless	
6th Moment:	55.3211	dimensionless	
RARD *	0.6858	dimensionless	
Median	0.7357	phi	(0.6005 mm)

* 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-43-SS

Total Digested Mass: 47.196 grams

% Silica: 47.9 %

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	0.014	0.030	0.030
-0.25	-0.375	0.016	0.034	0.064
0.00	-0.125	0.135	0.286	0.350
0.25	0.125	0.462	0.979	1.329
0.50	0.375	1.095	2.320	3.649
0.75	0.625	2.702	5.725	9.374
1.00	0.875	6.855	14.525	23.898
1.25	1.125	6.050	12.819	36.717
1.50	1.375	5.361	11.359	48.076
1.75	1.625	5.244	11.111	59.187
2.00	1.875	5.839	12.372	71.559
2.25	2.125	5.422	11.488	83.047
2.50	2.375	4.431	9.389	92.436
2.75	2.625	2.667	5.651	98.087
3.00	2.875	0.728	1.543	99.629
3.25	3.125	0.127	0.269	99.898
3.50	3.375	0.027	0.057	99.956
3.75	3.625	0.011	0.023	99.979
4.00	3.875	0.010	0.021	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.5568	phi	(0.3399 mm)
Standard Dev:	0.6574	phi-units	(0.634 mm)
Skewness:	0.0348	dimensionless	
Kurtosis:	2.2328	dimensionless	
5th Moment:	0.0267	dimensionless	
6th Moment:	7.8925	dimensionless	
RARD *	0.4223	dimensionless	
Median	1.4183	phi	(0.3742 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)

