

Onshore Grab Sample

Sample: VO-19-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? Yes

County: Volusia
Latitude: 29° 12' 2.34"
Longitude: 80° 59' 37.74"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 71.123 grams
Total Fines in Sample 0.966 grams
Total Percent Fines 1.34 %

Dry Sieving Summary

Total Sample Weight 70.729 grams
Total Digested Weight 68.395 grams
Total Carbonate Weight 2.334 grams
Total Silica % 96.70 %
Total Carbonate % 3.30 %
Carbonate/Silica Ratio 0.034

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-19-SS

Total Sample Mass: 70.729 grams

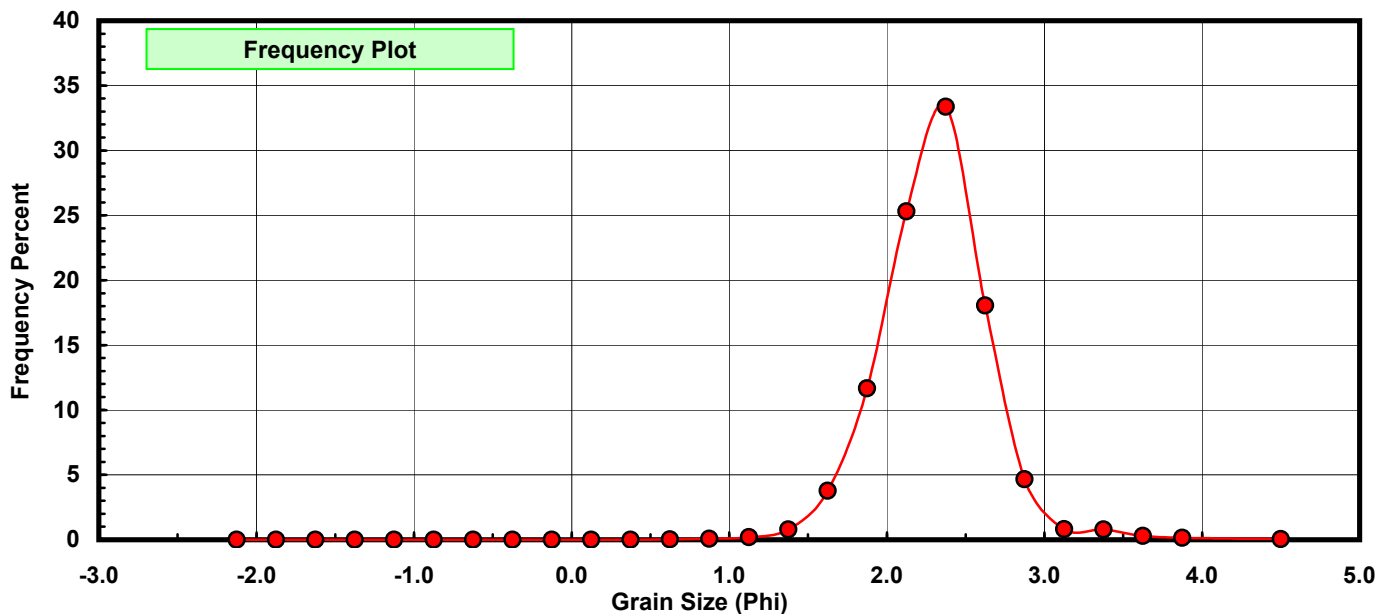
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.001	0.001	0.001
0.00	-0.125	0.002	0.003	0.004
0.25	0.125	0.003	0.004	0.008
0.50	0.375	0.002	0.003	0.011
0.75	0.625	0.019	0.027	0.038
1.00	0.875	0.050	0.071	0.109
1.25	1.125	0.144	0.204	0.312
1.50	1.375	0.562	0.795	1.107
1.75	1.625	2.677	3.785	4.892
2.00	1.875	8.246	11.659	16.550
2.25	2.125	17.889	25.292	41.843
2.50	2.375	23.592	33.355	75.198
2.75	2.625	12.770	18.055	93.253
3.00	2.875	3.288	4.649	97.902
3.25	3.125	0.575	0.813	98.715
3.50	3.375	0.561	0.793	99.508
3.75	3.625	0.208	0.294	99.802
4.00	3.875	0.112	0.158	99.960
5.00	4.500	0.028	0.040	100.000

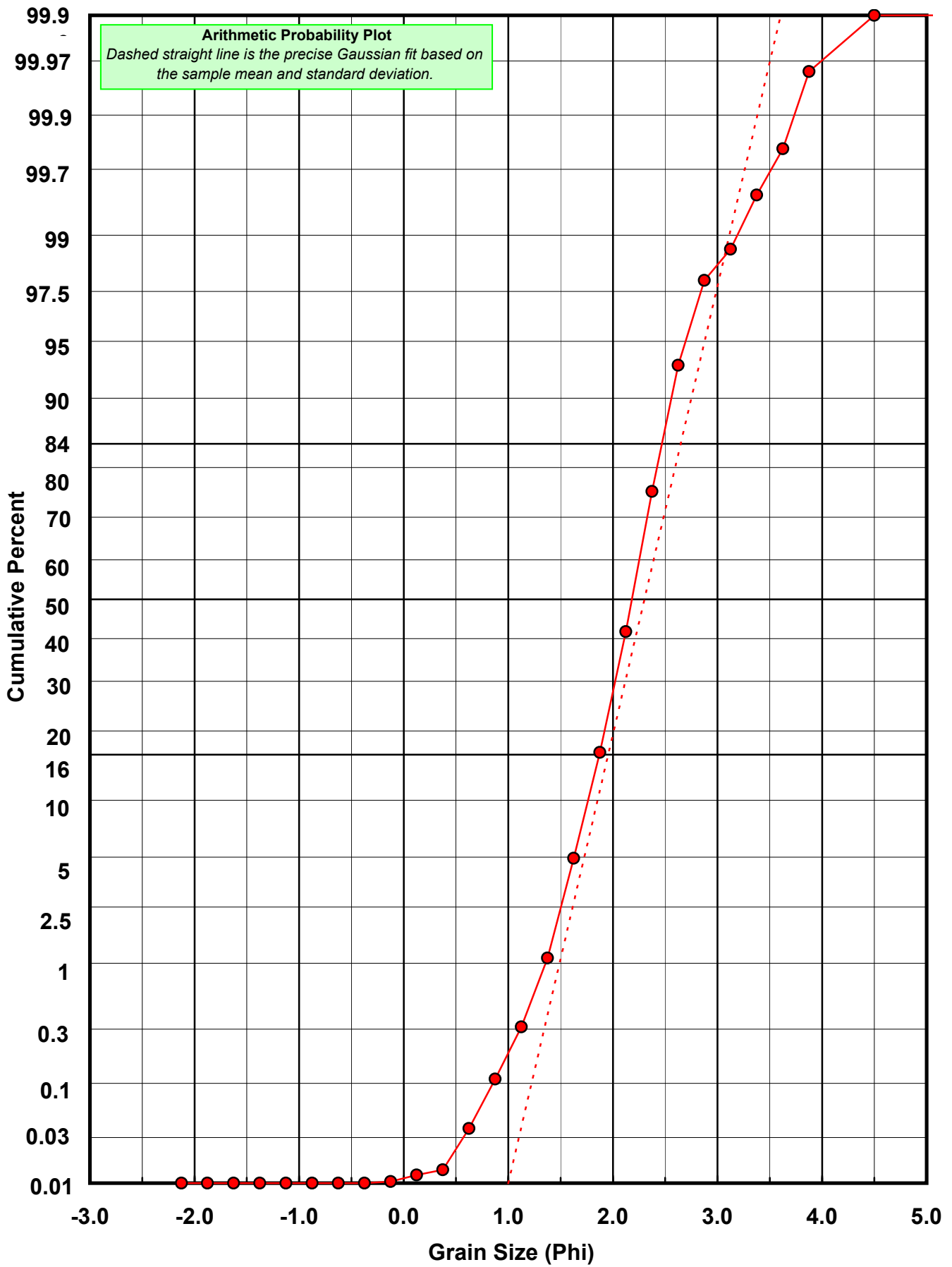
Statistical Results			
Mean:	2.3021	phi	(0.2028 mm)
Standard Dev:	0.3495	phi-units	(0.7848 mm)
Skewness:	0.2356	dimensionless	
Kurtosis:	5.3777	dimensionless	
5th Moment:	6.4708	dimensionless	
6th Moment:	80.4235	dimensionless	
RARD *	0.1518	dimensionless	
Median	2.1861	phi	(0.2197 mm)

* 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-19-SS

Total Carbonate Mass: 26.436 grams

% Carbonate: 3.3 %

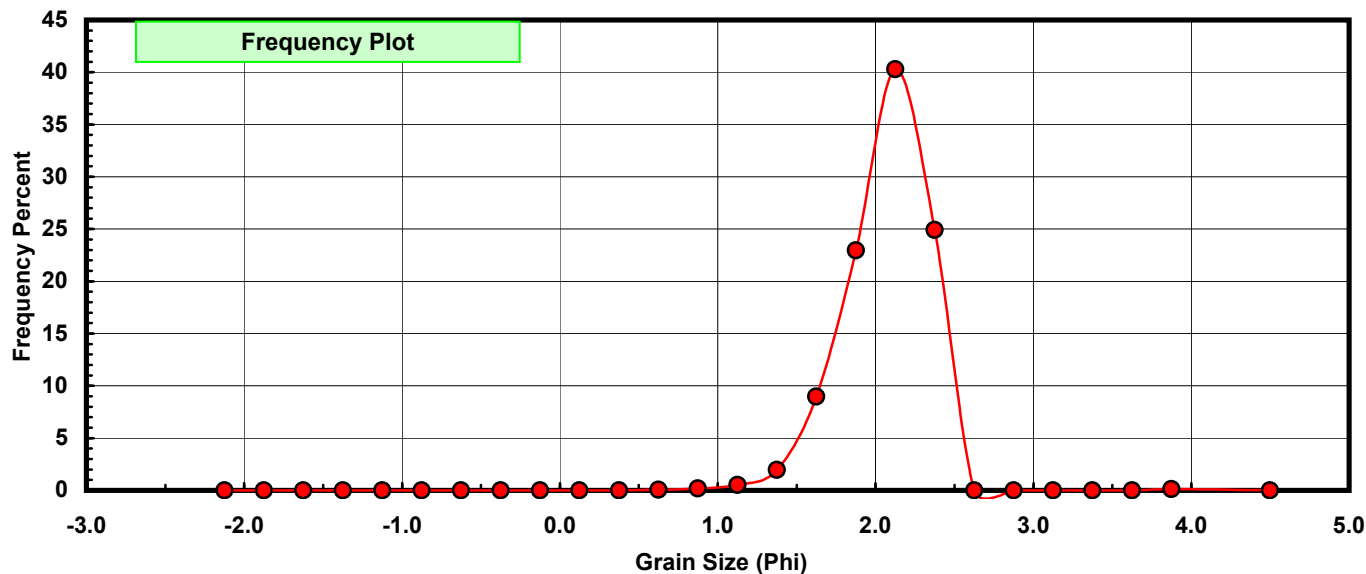
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.001	0.004	0.004
0.00	-0.125	0.002	0.008	0.011
0.25	0.125	0.003	0.011	0.023
0.50	0.375	0.002	0.008	0.030
0.75	0.625	0.015	0.057	0.087
1.00	0.875	0.049	0.185	0.272
1.25	1.125	0.138	0.522	0.794
1.50	1.375	0.518	1.959	2.754
1.75	1.625	2.368	8.957	11.711
2.00	1.875	6.071	22.965	34.676
2.25	2.125	10.652	40.294	74.970
2.50	2.375	6.588	24.921	99.890
2.75	2.625	0.000	0.000	99.890
3.00	2.875	0.000	0.000	99.890
3.25	3.125	0.000	0.000	99.890
3.50	3.375	0.000	0.000	99.890
3.75	3.625	0.000	0.000	99.890
4.00	3.875	0.029	0.110	100.000
5.00	4.500	0.000	0.000	100.000

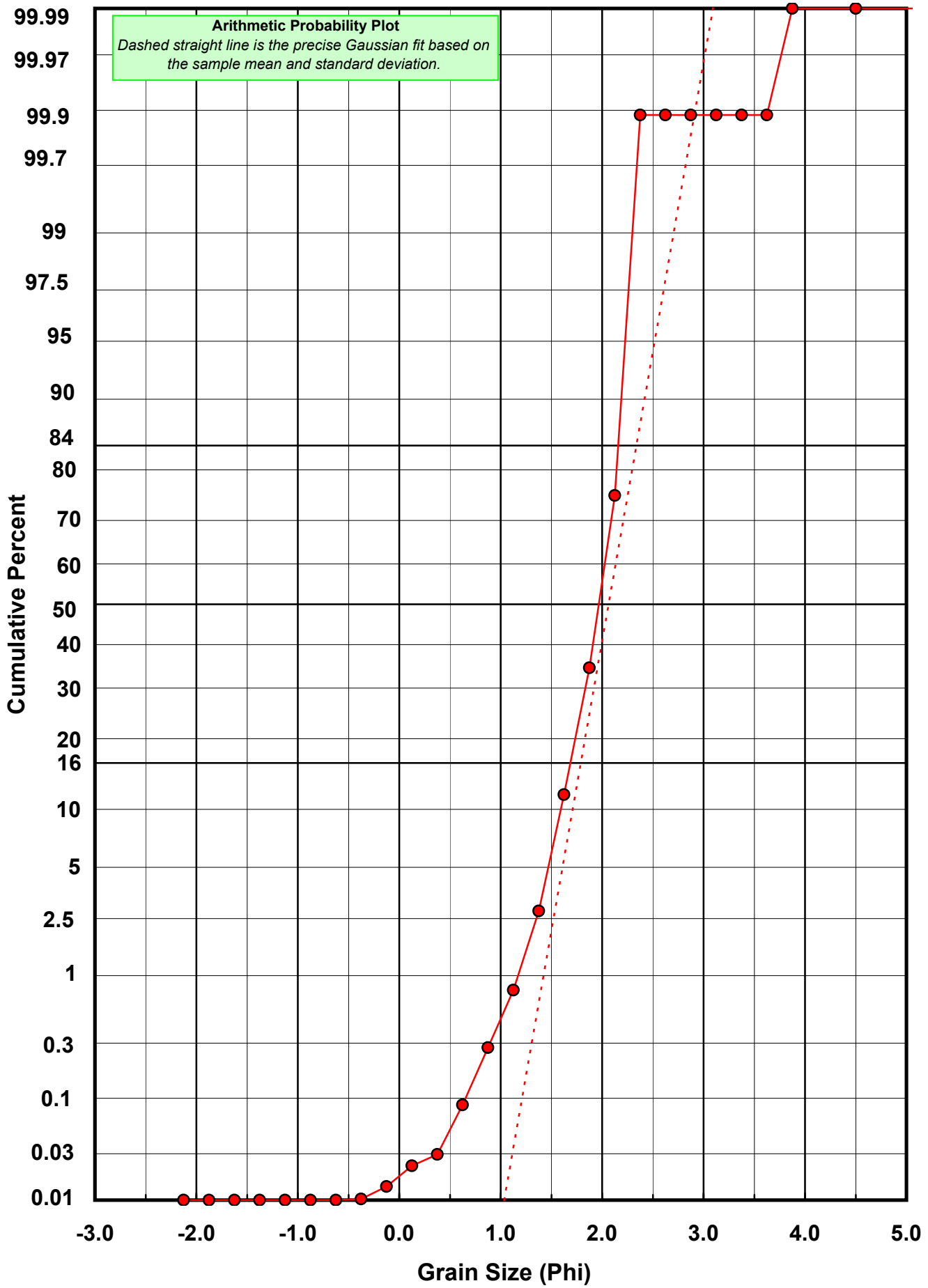
Statistical Results			
Mean:	2.0633	phi	(0.2393 mm)
Standard Dev:	0.2766	phi-units	(0.8256 mm)
Skewness:	-0.6360	dimensionless	
Kurtosis:	6.6842	dimensionless	
5th Moment:	-3.3838	dimensionless	
6th Moment:	184.8147	dimensionless	
RARD *	0.1340	dimensionless	
Median	1.9701	phi	(0.2552 mm)

* 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-19-SS

Total Digested Mass: 68.372 grams

% Silica: 96.7 %

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	0.000	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	0.010	0.015	0.015
-0.25	-0.375	0.000	0.000	0.015
0.00	-0.125	0.000	0.000	0.015
0.25	0.125	0.000	0.000	0.015
0.50	0.375	0.000	0.000	0.015
0.75	0.625	0.004	0.006	0.020
1.00	0.875	0.001	0.001	0.022
1.25	1.125	0.006	0.009	0.031
1.50	1.375	0.044	0.064	0.095
1.75	1.625	0.309	0.452	0.547
2.00	1.875	2.175	3.181	3.728
2.25	2.125	7.237	10.585	14.313
2.50	2.375	17.004	24.870	39.183
2.75	2.625	23.826	34.848	74.030
3.00	2.875	13.121	19.191	93.221
3.25	3.125	3.672	5.371	98.592
3.50	3.375	0.596	0.872	99.463
3.75	3.625	0.284	0.415	99.879
4.00	3.875	0.083	0.121	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5670	phi	(0.1688 mm)
Standard Dev:	0.3193	phi-units	(0.8015 mm)
Skewness:	-0.1431	dimensionless	
Kurtosis:	5.1220	dimensionless	
5th Moment:	-14.0794	dimensionless	
6th Moment:	176.6041	dimensionless	
RARD *	0.1244	dimensionless	
Median	2.4526	phi	(0.1827 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)

