

Onshore Grab Sample

Sample: VO-33
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Volusia
Latitude: 29° 02' 52.68"
Longitude: 80° 54' 3.00"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 73.877 grams
Total Fines in Sample 0.285 grams
Total Percent Fines 0.38 %

Dry Sieving Summary

Total Sample Weight 73.572 grams
Total Digested Weight 71.400 grams
Total Carbonate Weight 2.172 grams
Total Silica % 97.05 %
Total Carbonate % 2.95 %
Carbonate/Silica Ratio 0.030

General Comments:

Post-Digestion: -0.50 phi to 0.75 phi are Organics only

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-33

Total Sample Mass: 73.572 grams

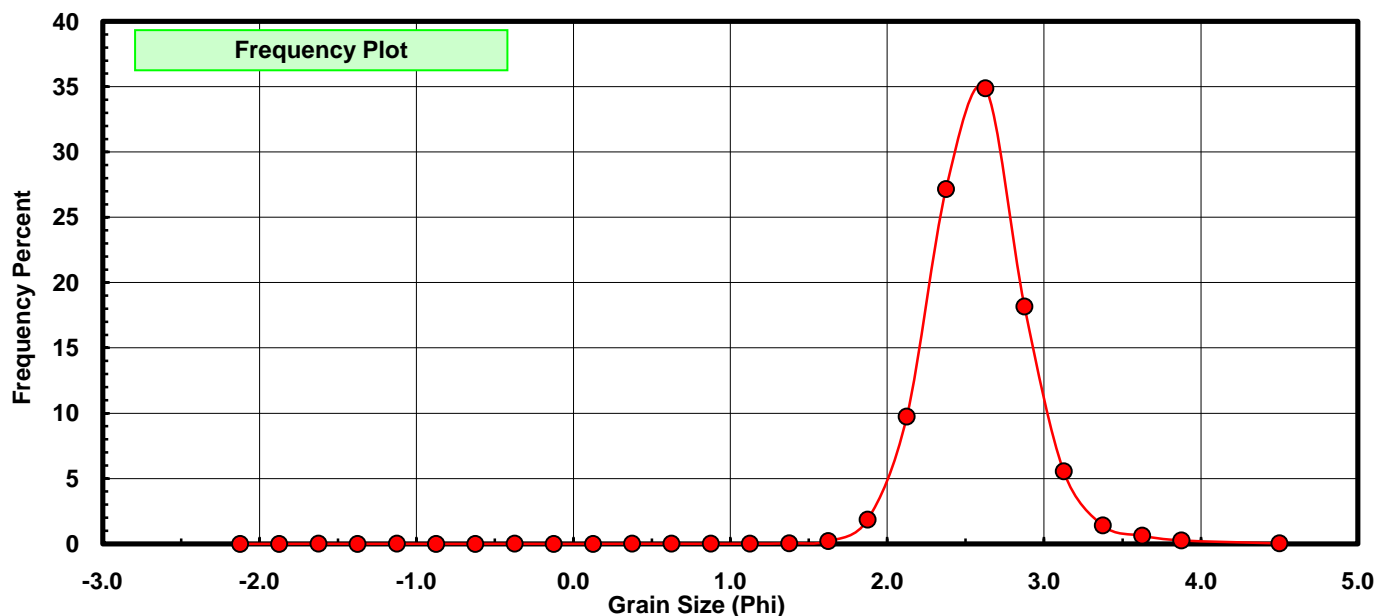
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.005	0.007	0.007
-1.25	-1.375	0.000	0.000	0.007
-1.00	-1.125	0.004	0.005	0.012
-0.75	-0.875	0.000	0.000	0.012
-0.50	-0.625	0.000	0.000	0.012
-0.25	-0.375	0.003	0.004	0.016
0.00	-0.125	0.000	0.000	0.016
0.25	0.125	0.000	0.000	0.016
0.50	0.375	0.007	0.010	0.026
0.75	0.625	0.006	0.008	0.034
1.00	0.875	0.005	0.007	0.041
1.25	1.125	0.011	0.015	0.056
1.50	1.375	0.030	0.041	0.097
1.75	1.625	0.149	0.203	0.299
2.00	1.875	1.366	1.857	2.156
2.25	2.125	7.170	9.746	11.901
2.50	2.375	19.989	27.169	39.071
2.75	2.625	25.662	34.880	73.951
3.00	2.875	13.374	18.178	92.129
3.25	3.125	4.079	5.544	97.673
3.50	3.375	1.031	1.401	99.074
3.75	3.625	0.461	0.627	99.701
4.00	3.875	0.195	0.265	99.966
5.00	4.500	0.025	0.034	100.000

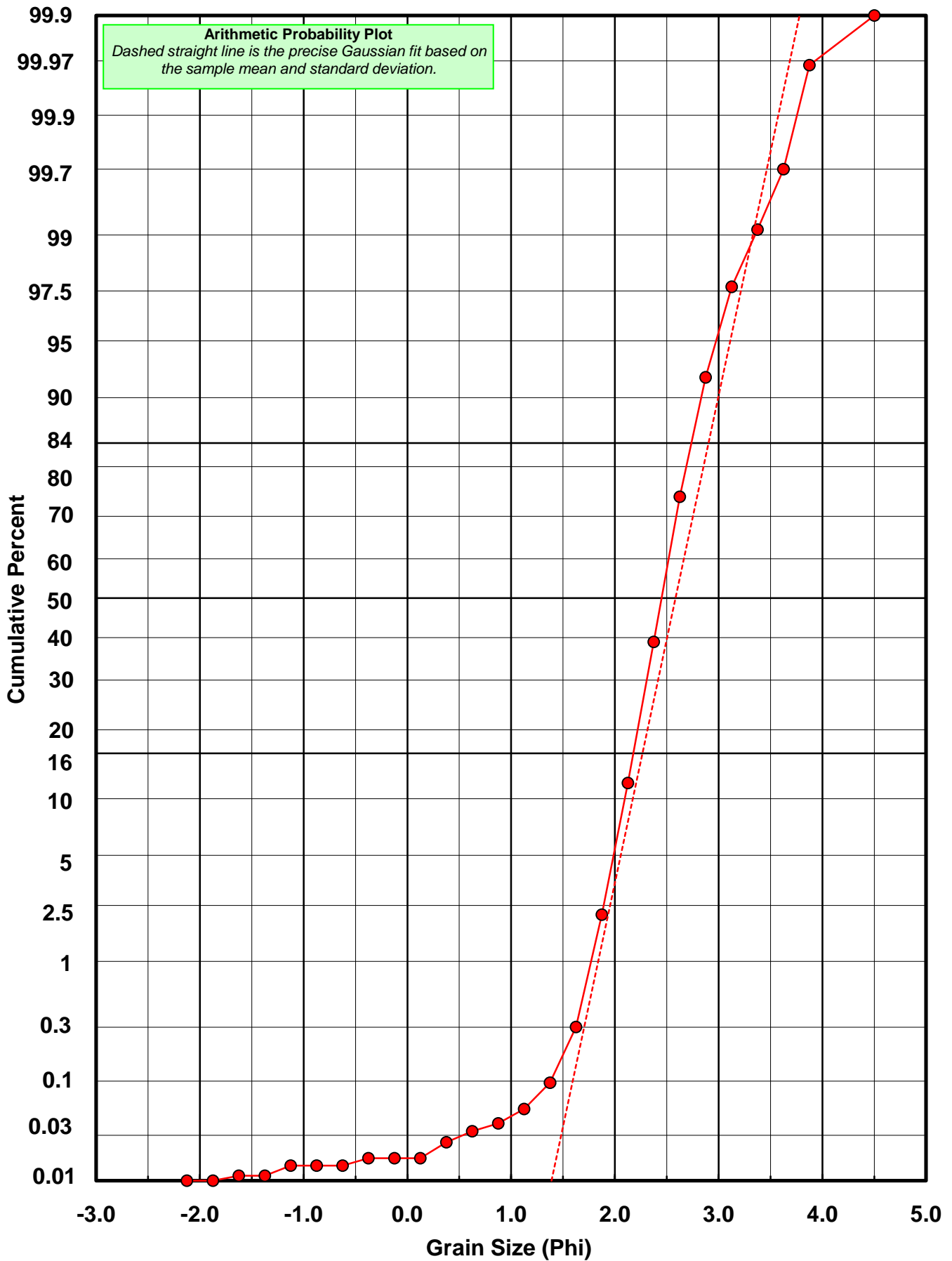
Statistical Results			
Mean:	2.5844	phi	(0.1667 mm)
Standard Dev:	0.3203	phi-units	(0.8009 mm)
Skewness:	0.0887	dimensionless	
Kurtosis:	7.9348	dimensionless	
5th Moment:	-36.5419	dimensionless	
6th Moment:	576.0347	dimensionless	
RARD *	0.1239	dimensionless	
Median	2.4533	phi	(0.1826 mm)

* 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-33

Total Carbonate Mass: 26.480 grams

% Carbonate: 3.0 %

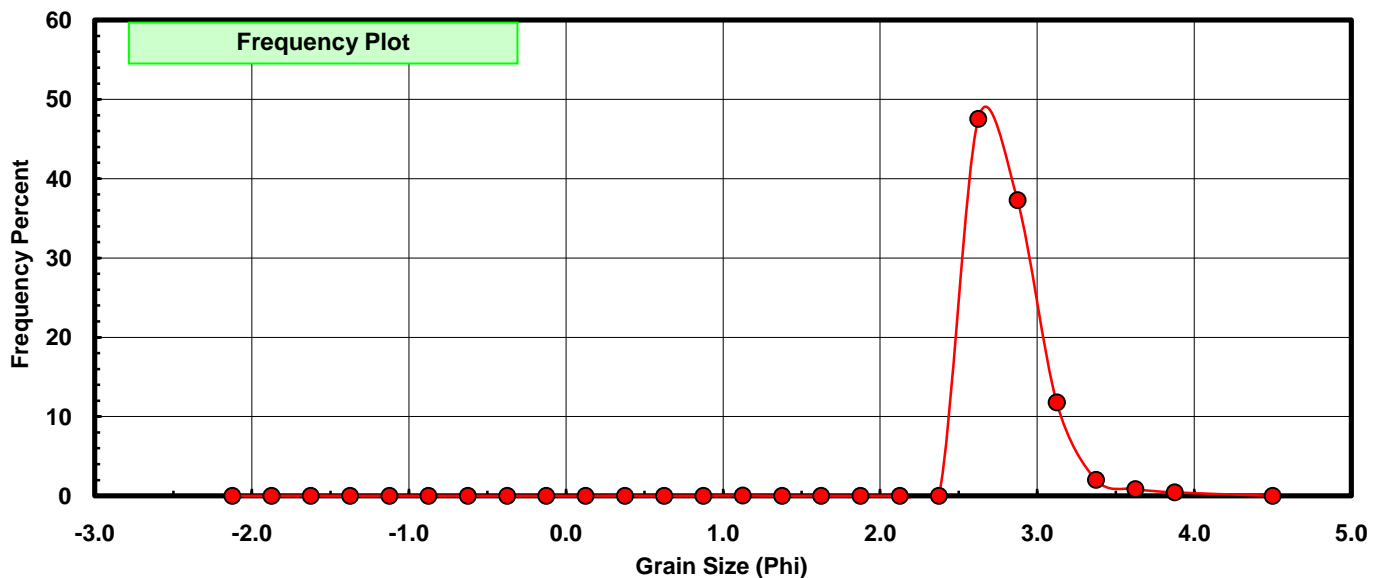
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.005	0.019	0.019
-1.25	-1.375	0.000	0.000	0.019
-1.00	-1.125	0.004	0.015	0.034
-0.75	-0.875	0.000	0.000	0.034
-0.50	-0.625	0.000	0.000	0.034
-0.25	-0.375	0.000	0.000	0.034
0.00	-0.125	0.000	0.000	0.034
0.25	0.125	0.000	0.000	0.034
0.50	0.375	0.004	0.015	0.049
0.75	0.625	0.000	0.000	0.049
1.00	0.875	0.004	0.015	0.064
1.25	1.125	0.010	0.038	0.102
1.50	1.375	0.000	0.000	0.102
1.75	1.625	0.000	0.000	0.102
2.00	1.875	0.000	0.000	0.102
2.25	2.125	0.000	0.000	0.102
2.50	2.375	0.000	0.000	0.102
2.75	2.625	12.585	47.526	47.628
3.00	2.875	9.871	37.277	84.906
3.25	3.125	3.118	11.775	96.681
3.50	3.375	0.536	2.024	98.705
3.75	3.625	0.228	0.861	99.566
4.00	3.875	0.115	0.434	100.000
5.00	4.500	0.000	0.000	100.000

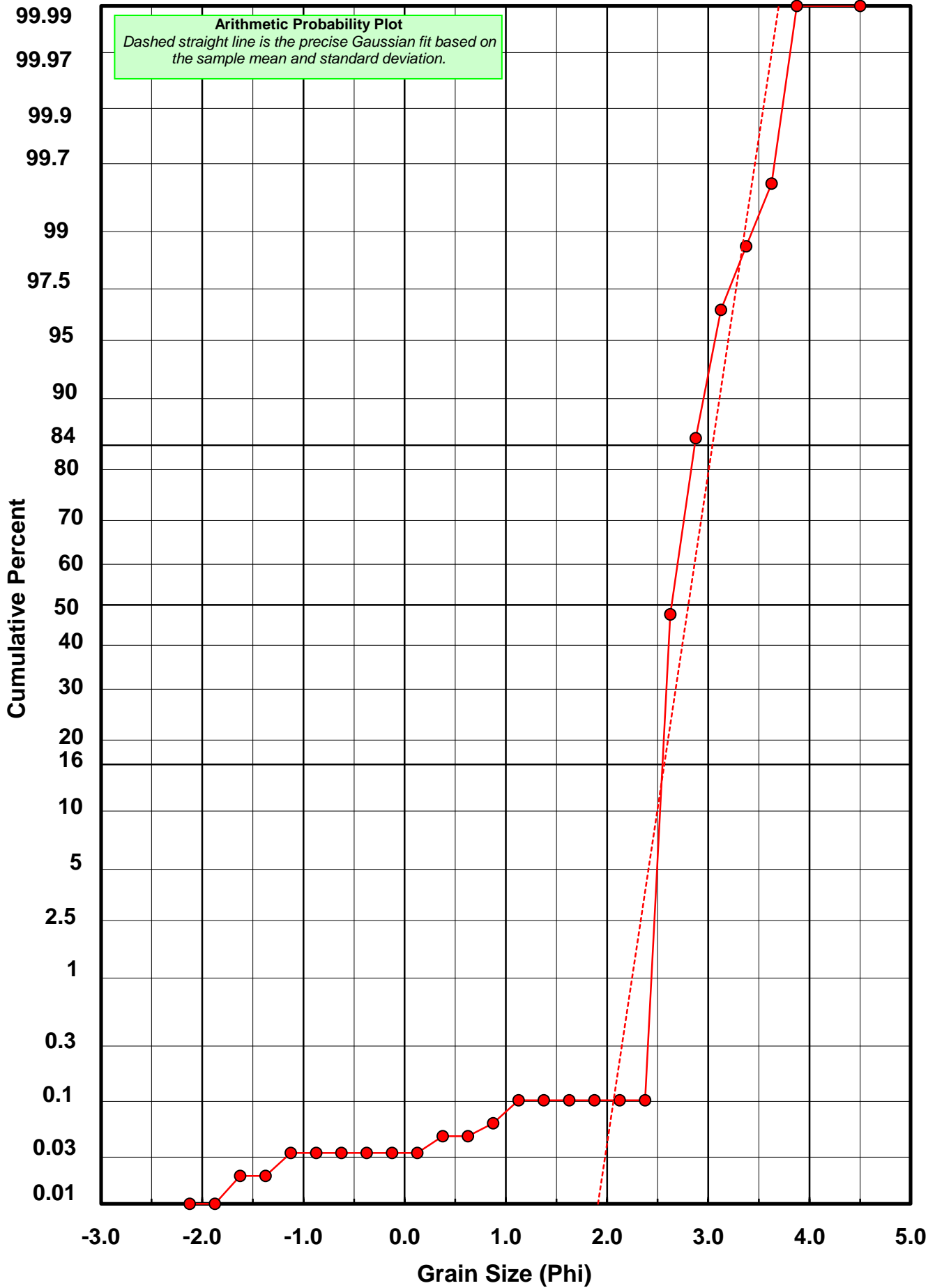
Statistical Results			
Mean:	2.8037	phi	(0.1432 mm)
Standard Dev:	0.2395	phi-units	(0.8471 mm)
Skewness:	-1.1648	dimensionless	
Kurtosis:	41.8798	dimensionless	
5th Moment:	-625.6131	dimensionless	
6th Moment:	#####	dimensionless	
RARD *	0.0854	dimensionless	
Median	2.6409	phi	(0.1603 mm)

* 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-33

Total Digested Mass: 71.400 grams

% Silica: 97.0 %

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	0.004	0.006	0.006
0.00	-0.125	0.000	0.000	0.006
0.25	0.125	0.001	0.001	0.007
0.50	0.375	0.003	0.004	0.011
0.75	0.625	0.038	0.053	0.064
1.00	0.875	0.001	0.001	0.066
1.25	1.125	0.001	0.001	0.067
1.50	1.375	0.054	0.076	0.143
1.75	1.625	1.229	1.721	1.864
2.00	1.875	7.513	10.522	12.387
2.25	2.125	20.054	28.087	40.473
2.50	2.375	24.153	33.828	74.301
2.75	2.625	13.077	18.315	92.616
3.00	2.875	3.503	4.906	97.522
3.25	3.125	0.961	1.346	98.868
3.50	3.375	0.495	0.693	99.562
3.75	3.625	0.233	0.326	99.888
4.00	3.875	0.080	0.112	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.3304	phi	(0.1988 mm)
Standard Dev:	0.3192	phi-units	(0.8015 mm)
Skewness:	0.4724	dimensionless	
Kurtosis:	5.2064	dimensionless	
5th Moment:	4.2027	dimensionless	
6th Moment:	83.5686	dimensionless	
RARD *	0.1370	dimensionless	
Median	2.1954	phi	(0.2183 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)

