

Onshore Grab Sample

Sample: VO-05-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Volusia
Latitude: 29° 22' 5.52"
Longitude: 81° 04' 31.20"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 60.73 grams
Total Fines in Sample 0.214 grams
Total Percent Fines 0.35 %

Dry Sieving Summary

Total Sample Weight 60.404 grams
Total Digested Weight 45.675 grams
Total Carbonate Weight 14.729 grams
Total Silica % 75.62 %
Total Carbonate % 24.38 %
Carbonate/Silica Ratio 0.322

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-05-BB

Total Sample Mass: 60.404 grams

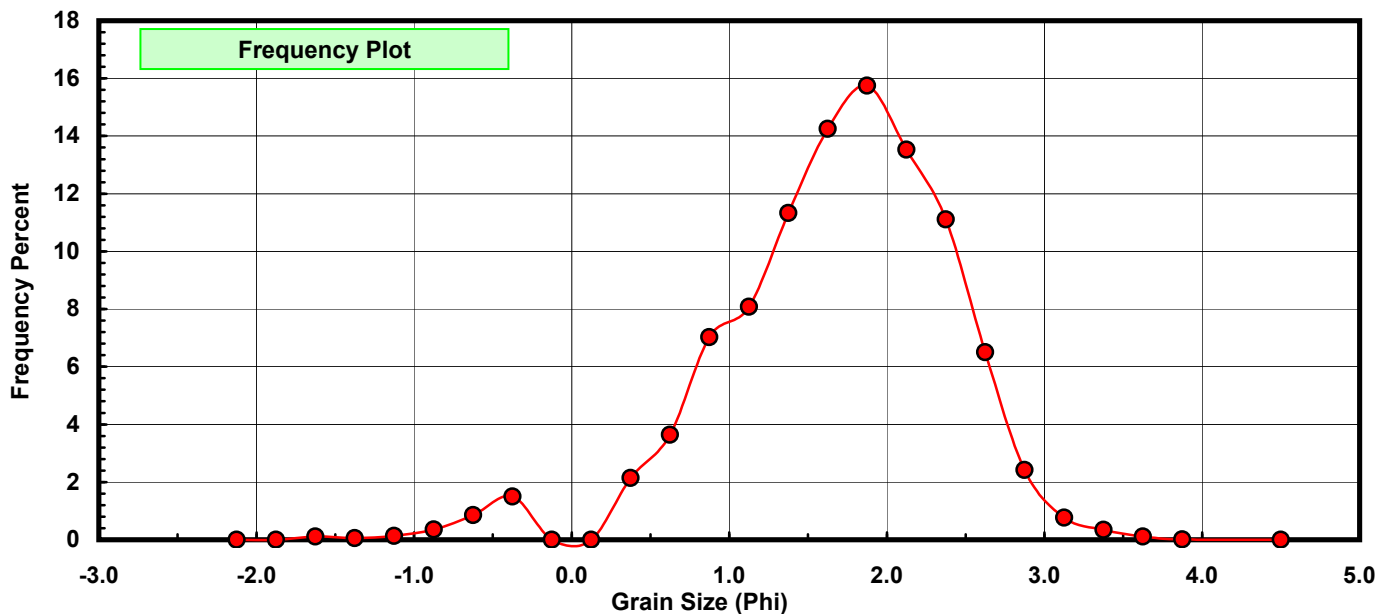
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.070	0.116	0.116
-1.25	-1.375	0.035	0.058	0.174
-1.00	-1.125	0.080	0.132	0.306
-0.75	-0.875	0.215	0.356	0.662
-0.50	-0.625	0.513	0.849	1.511
-0.25	-0.375	0.908	1.503	3.015
0.00	-0.125	0.000	0.000	3.015
0.25	0.125	0.000	0.000	3.015
0.50	0.375	1.292	2.139	5.154
0.75	0.625	2.201	3.644	8.797
1.00	0.875	4.242	7.023	15.820
1.25	1.125	4.881	8.081	23.901
1.50	1.375	6.846	11.334	35.234
1.75	1.625	8.604	14.244	49.479
2.00	1.875	9.509	15.742	65.221
2.25	2.125	8.170	13.526	78.746
2.50	2.375	6.708	11.105	89.852
2.75	2.625	3.926	6.500	96.351
3.00	2.875	1.464	2.424	98.775
3.25	3.125	0.461	0.763	99.538
3.50	3.375	0.205	0.339	99.877
3.75	3.625	0.065	0.108	99.985
4.00	3.875	0.009	0.015	100.000
5.00	4.500	0.000	0.000	100.000

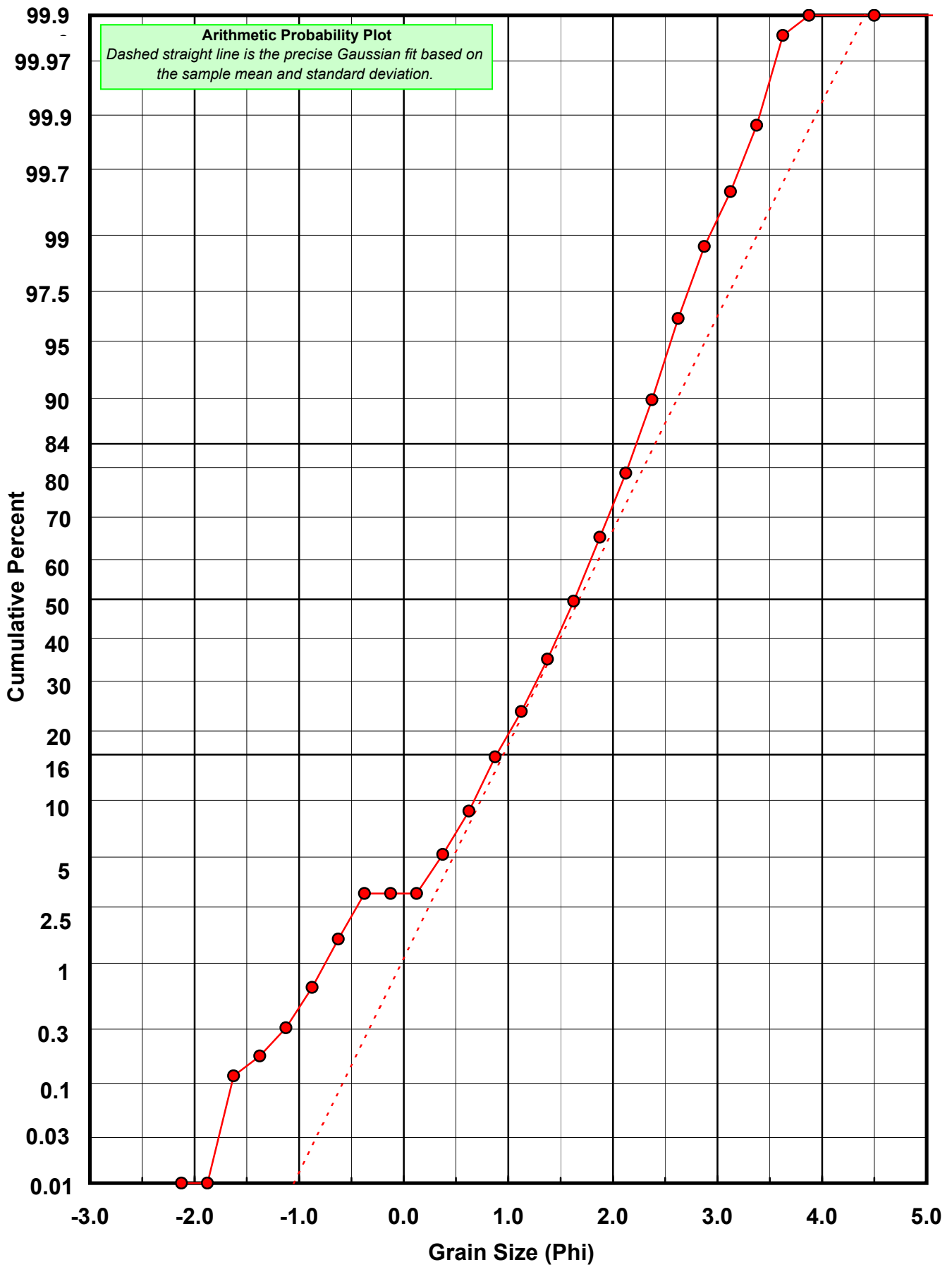
Statistical Results			
Mean:	1.6786	phi	(0.3124 mm)
Standard Dev:	0.7329	phi-units	(0.6017 mm)
Skewness:	-0.8464	dimensionless	
Kurtosis:	4.5349	dimensionless	
5th Moment:	-10.6707	dimensionless	
6th Moment:	42.8984	dimensionless	
RARD *	0.4366	dimensionless	
Median	1.6333	phi	(0.3224 mm)

* 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-05-BB

Total Carbonate Mass: 15.567 grams

% Carbonate: 24.4 %

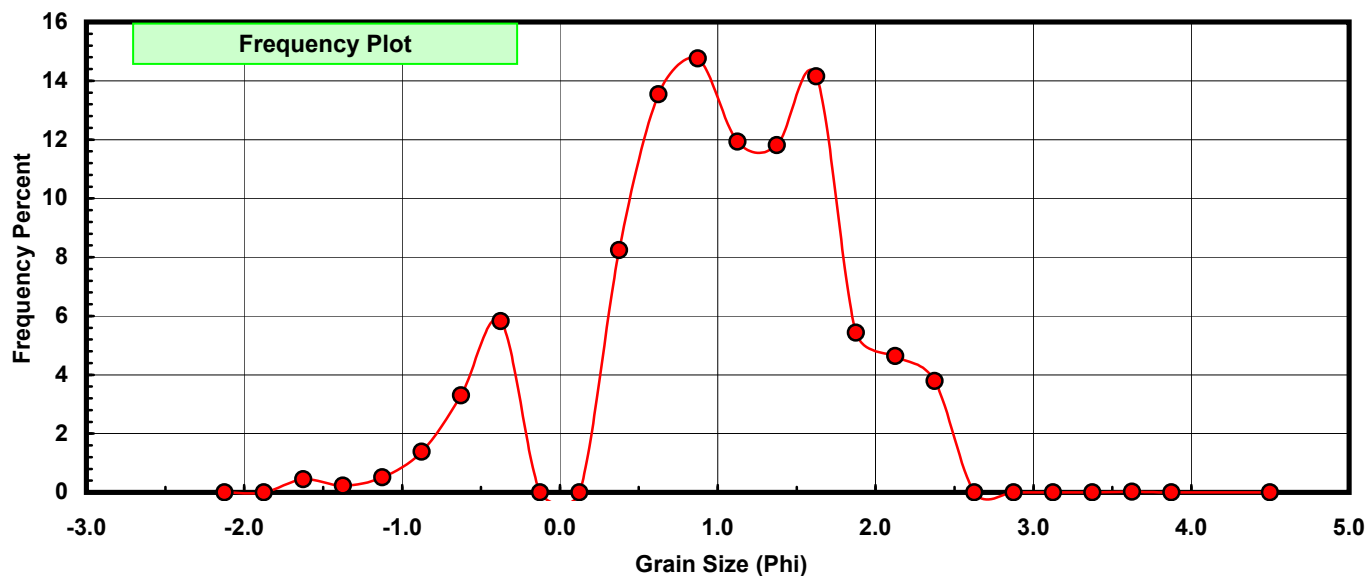
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.070	0.450	0.450
-1.25	-1.375	0.035	0.225	0.675
-1.00	-1.125	0.080	0.514	1.188
-0.75	-0.875	0.215	1.381	2.570
-0.50	-0.625	0.513	3.295	5.865
-0.25	-0.375	0.907	5.826	11.691
0.00	-0.125	0.000	0.000	11.691
0.25	0.125	0.000	0.000	11.691
0.50	0.375	1.283	8.242	19.933
0.75	0.625	2.107	13.535	33.468
1.00	0.875	2.298	14.762	48.230
1.25	1.125	1.857	11.929	60.159
1.50	1.375	1.839	11.813	71.973
1.75	1.625	2.203	14.152	86.124
2.00	1.875	0.846	5.435	91.559
2.25	2.125	0.721	4.632	96.191
2.50	2.375	0.589	3.784	99.974
2.75	2.625	0.000	0.000	99.974
3.00	2.875	0.000	0.000	99.974
3.25	3.125	0.000	0.000	99.974
3.50	3.375	0.000	0.000	99.974
3.75	3.625	0.004	0.026	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

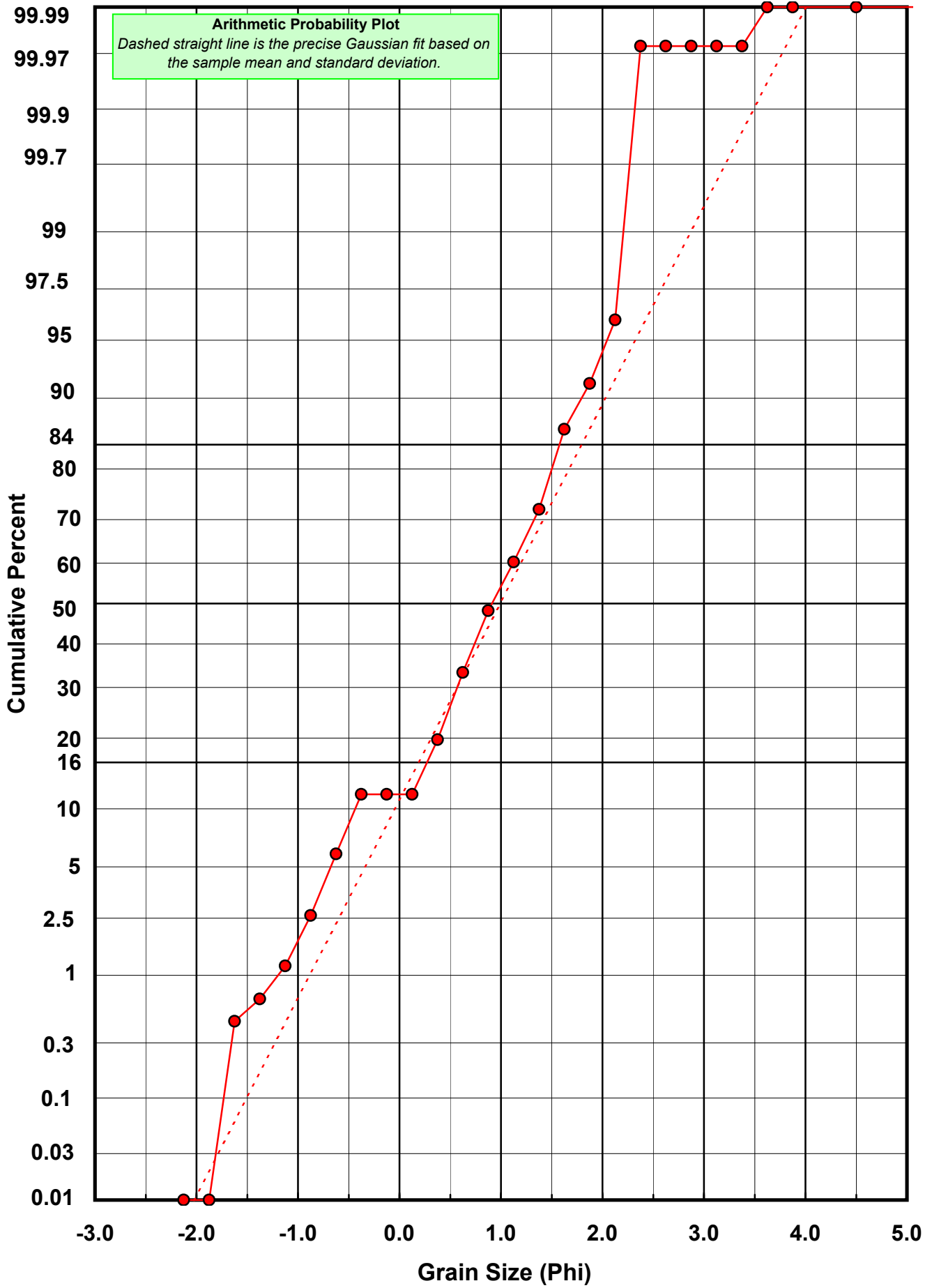
Statistical Results			
Mean:	0.9917	phi	(0.5029 mm)
Standard Dev:	0.8096	phi-units	(0.5705 mm)
Skewness:	-0.6253	dimensionless	
Kurtosis:	3.1856	dimensionless	
5th Moment:	-4.7451	dimensionless	
6th Moment:	16.4775	dimensionless	
RARD *	0.8164	dimensionless	
Median	0.9121	phi	(0.5314 mm)

* 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-05-BB

Total Digested Mass: 45.675 grams

% Silica: 75.6 %

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	0.002	0.002
0.00	-0.125	0.000	0.000	0.002
0.25	0.125	0.000	0.000	0.002
0.50	0.375	0.009	0.020	0.022
0.75	0.625	0.094	0.206	0.228
1.00	0.875	1.944	4.256	4.484
1.25	1.125	3.024	6.621	11.105
1.50	1.375	5.007	10.962	22.067
1.75	1.625	6.401	14.014	36.081
2.00	1.875	8.663	18.967	55.048
2.25	2.125	7.449	16.309	71.356
2.50	2.375	6.119	13.397	84.753
2.75	2.625	4.491	9.833	94.586
3.00	2.875	1.630	3.569	98.154
3.25	3.125	0.550	1.204	99.359
3.50	3.375	0.217	0.475	99.834
3.75	3.625	0.061	0.134	99.967
4.00	3.875	0.015	0.033	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.9324	phi	(0.262 mm)
Standard Dev:	0.5408	phi-units	(0.6874 mm)
Skewness:	0.0327	dimensionless	
Kurtosis:	2.6027	dimensionless	
5th Moment:	0.7645	dimensionless	
6th Moment:	10.6722	dimensionless	
RARD *	0.2798	dimensionless	
Median	1.8085	phi	(0.2855 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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> 1.33	Poor homogeneity (e.g., glacial)

