

Onshore Grab Sample

Sample: VO-50-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? Yes

County: Volusia
Latitude: 28° 51' 39.60"
Longitude: 80° 46' 40.62"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 78.791 grams
Total Fines in Sample 0.214 grams
Total Percent Fines 0.27 %

Dry Sieving Summary

Total Sample Weight 78.470 grams
Total Digested Weight 42.106 grams
Total Carbonate Weight 36.364 grams
Total Silica % 53.66 %
Total Carbonate % 46.34 %
Carbonate/Silica Ratio 0.864

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-50-BB

Total Sample Mass: 78.470 grams

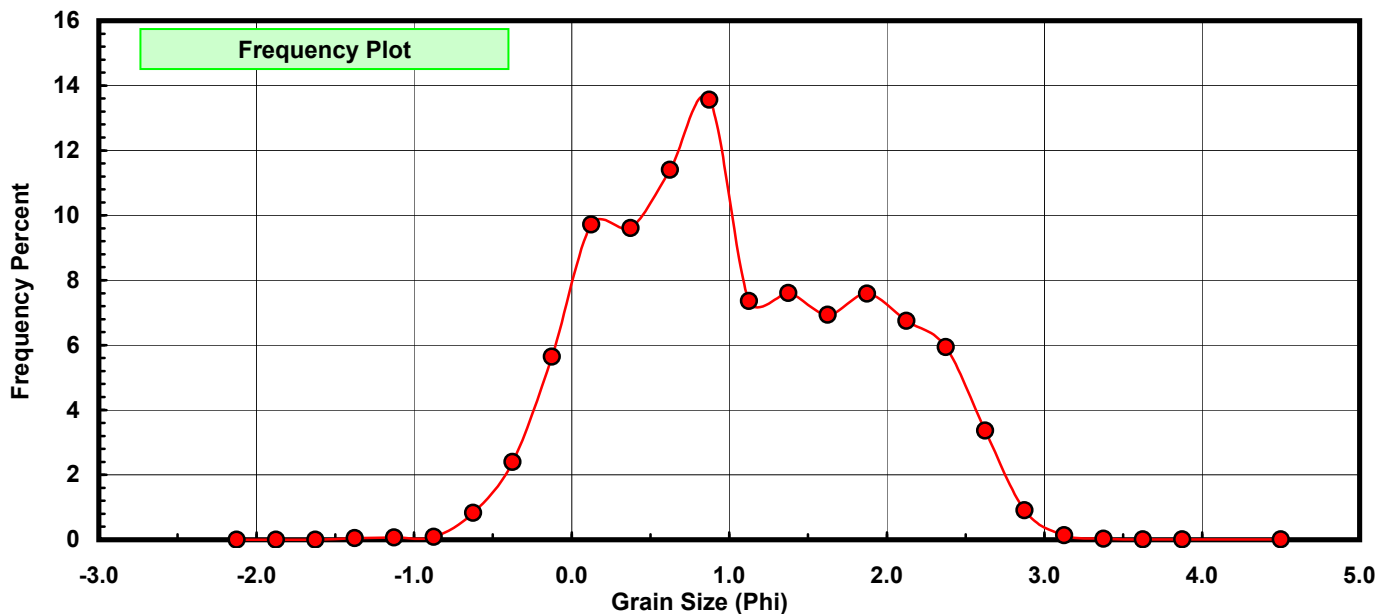
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.038	0.048	0.048
-1.00	-1.125	0.051	0.065	0.113
-0.75	-0.875	0.069	0.088	0.201
-0.50	-0.625	0.654	0.833	1.035
-0.25	-0.375	1.883	2.400	3.434
0.00	-0.125	4.431	5.647	9.081
0.25	0.125	7.624	9.716	18.797
0.50	0.375	7.536	9.604	28.401
0.75	0.625	8.950	11.406	39.806
1.00	0.875	10.646	13.567	53.373
1.25	1.125	5.773	7.357	60.730
1.50	1.375	5.965	7.602	68.332
1.75	1.625	5.440	6.933	75.264
2.00	1.875	5.949	7.581	82.846
2.25	2.125	5.293	6.745	89.591
2.50	2.375	4.656	5.933	95.524
2.75	2.625	2.640	3.364	98.889
3.00	2.875	0.716	0.912	99.801
3.25	3.125	0.112	0.143	99.944
3.50	3.375	0.022	0.028	99.972
3.75	3.625	0.009	0.011	99.983
4.00	3.875	0.007	0.009	99.992
5.00	4.500	0.006	0.008	100.000

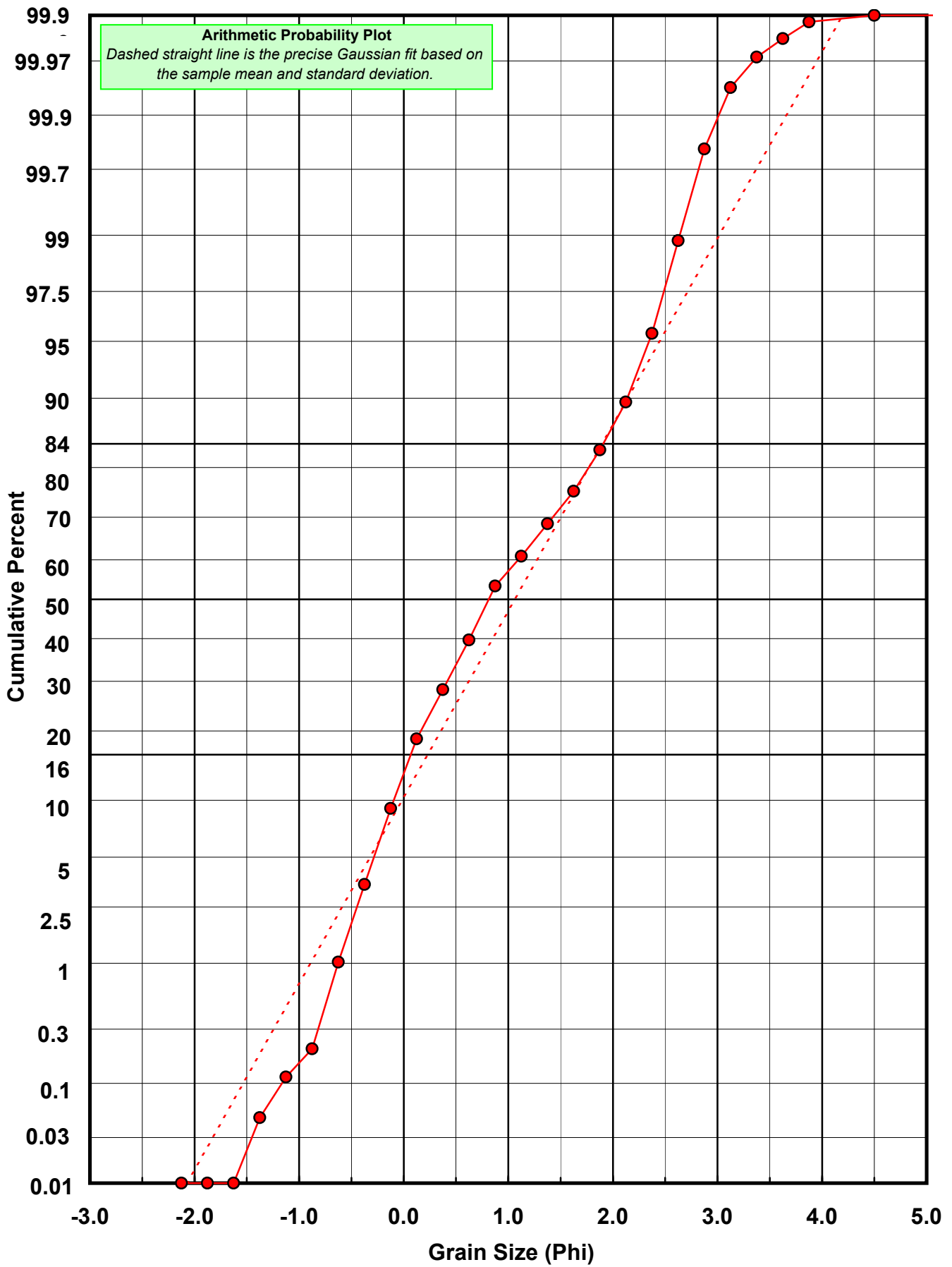
Statistical Results			
Mean:	1.0621	phi	(0.4789 mm)
Standard Dev:	0.8419	phi-units	(0.5579 mm)
Skewness:	0.2191	dimensionless	
Kurtosis:	2.1869	dimensionless	
5th Moment:	0.9682	dimensionless	
6th Moment:	6.9779	dimensionless	
RARD *	0.7926	dimensionless	
Median	0.8128	phi	(0.5693 mm)

* 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-50-BB

Total Carbonate Mass: 36.380 grams

% Carbonate: 46.3 %

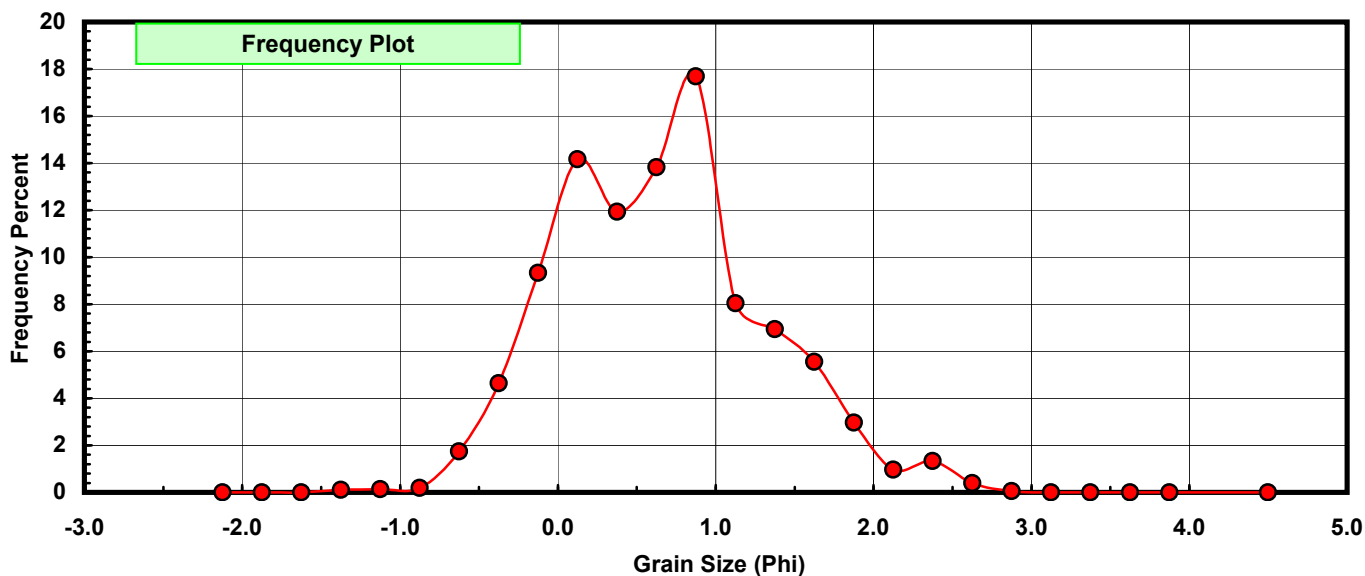
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.038	0.104	0.104
-1.00	-1.125	0.051	0.140	0.245
-0.75	-0.875	0.069	0.190	0.434
-0.50	-0.625	0.634	1.743	2.177
-0.25	-0.375	1.687	4.637	6.814
0.00	-0.125	3.393	9.327	16.141
0.25	0.125	5.151	14.159	30.300
0.50	0.375	4.343	11.938	42.237
0.75	0.625	5.028	13.821	56.058
1.00	0.875	6.435	17.688	73.747
1.25	1.125	2.927	8.046	81.792
1.50	1.375	2.524	6.938	88.730
1.75	1.625	2.018	5.547	94.277
2.00	1.875	1.078	2.963	97.240
2.25	2.125	0.353	0.970	98.211
2.50	2.375	0.484	1.330	99.541
2.75	2.625	0.146	0.401	99.942
3.00	2.875	0.021	0.058	100.000
3.25	3.125	0.000	0.000	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

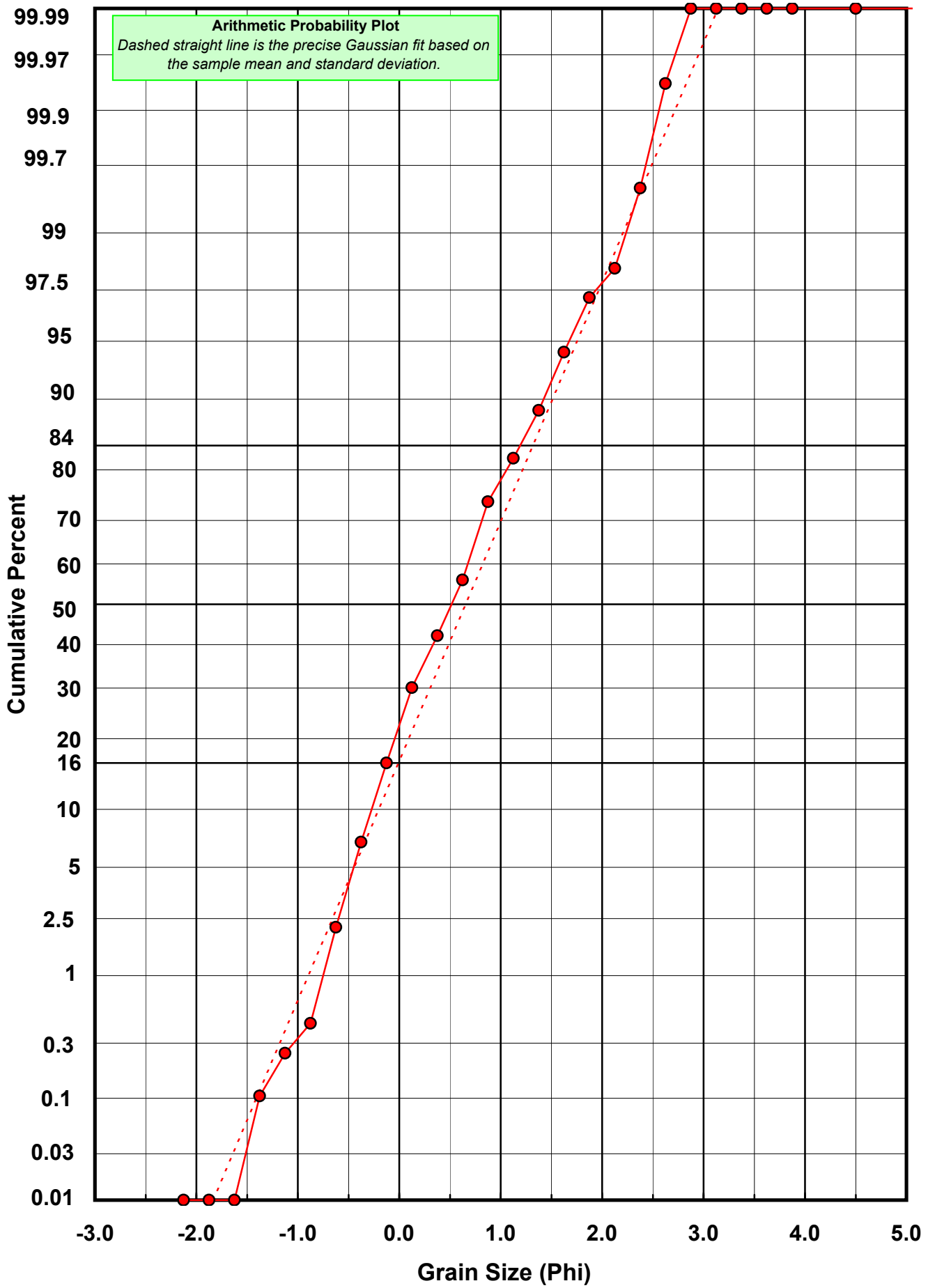
Statistical Results			
Mean:	0.6550	phi	(0.6351 mm)
Standard Dev:	0.6682	phi-units	(0.6293 mm)
Skewness:	0.3357	dimensionless	
Kurtosis:	2.8957	dimensionless	
5th Moment:	2.5962	dimensionless	
6th Moment:	13.8423	dimensionless	
RARD *	1.0202	dimensionless	
Median	0.5154	phi	(0.6996 mm)

* 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-50-BB

Total Digested Mass: 42.100 grams

% Silica: 53.7 %

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	0.020	0.048	0.048
-0.25	-0.375	0.196	0.466	0.513
0.00	-0.125	1.038	2.466	2.979
0.25	0.125	2.473	5.874	8.853
0.50	0.375	3.193	7.584	16.437
0.75	0.625	3.922	9.316	25.753
1.00	0.875	4.211	10.002	35.755
1.25	1.125	2.846	6.760	42.515
1.50	1.375	3.441	8.173	50.689
1.75	1.625	3.422	8.128	58.817
2.00	1.875	4.871	11.570	70.387
2.25	2.125	4.940	11.734	82.121
2.50	2.375	4.172	9.910	92.031
2.75	2.625	2.494	5.924	97.955
3.00	2.875	0.695	1.651	99.606
3.25	3.125	0.115	0.273	99.879
3.50	3.375	0.026	0.062	99.941
3.75	3.625	0.015	0.036	99.976
4.00	3.875	0.010	0.024	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.4144	phi	(0.3752 mm)
Standard Dev:	0.8236	phi-units	(0.565 mm)
Skewness:	-0.1294	dimensionless	
Kurtosis:	1.9190	dimensionless	
5th Moment:	-0.4949	dimensionless	
6th Moment:	5.0669	dimensionless	
RARD *	0.5823	dimensionless	
Median	1.3539	phi	(0.3912 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)

