

Onshore Grab Sample

Sample: VO-39-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? Yes

County: Volusia
Latitude: 28° 58' 40.80"
Longitude: 80° 51' 27.54"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 73.059 grams
Total Fines in Sample 0.800 grams
Total Percent Fines 1.08 %

Dry Sieving Summary

Total Sample Weight 72.184 grams
Total Digested Weight 43.688 grams
Total Carbonate Weight 28.496 grams
Total Silica % 60.52 %
Total Carbonate % 39.48 %
Carbonate/Silica Ratio 0.652

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-39-SS

Total Sample Mass: 72.184 grams

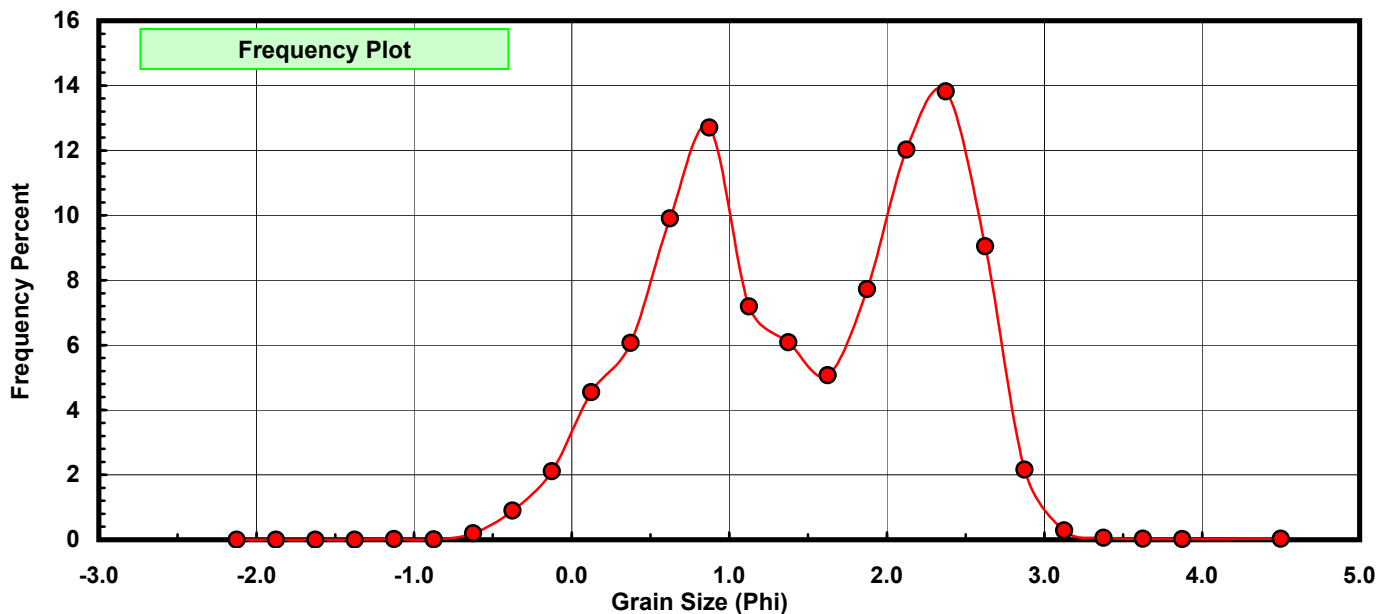
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.017	0.024	0.024
-0.75	-0.875	0.010	0.014	0.037
-0.50	-0.625	0.139	0.193	0.230
-0.25	-0.375	0.649	0.899	1.129
0.00	-0.125	1.526	2.114	3.243
0.25	0.125	3.285	4.551	7.794
0.50	0.375	4.378	6.065	13.859
0.75	0.625	7.150	9.905	23.764
1.00	0.875	9.171	12.705	36.469
1.25	1.125	5.189	7.189	43.658
1.50	1.375	4.390	6.082	49.740
1.75	1.625	3.661	5.072	54.811
2.00	1.875	5.572	7.719	62.530
2.25	2.125	8.680	12.025	74.555
2.50	2.375	9.975	13.819	88.374
2.75	2.625	6.531	9.048	97.422
3.00	2.875	1.560	2.161	99.583
3.25	3.125	0.203	0.281	99.864
3.50	3.375	0.044	0.061	99.925
3.75	3.625	0.021	0.029	99.954
4.00	3.875	0.013	0.018	99.972
5.00	4.500	0.020	0.028	100.000

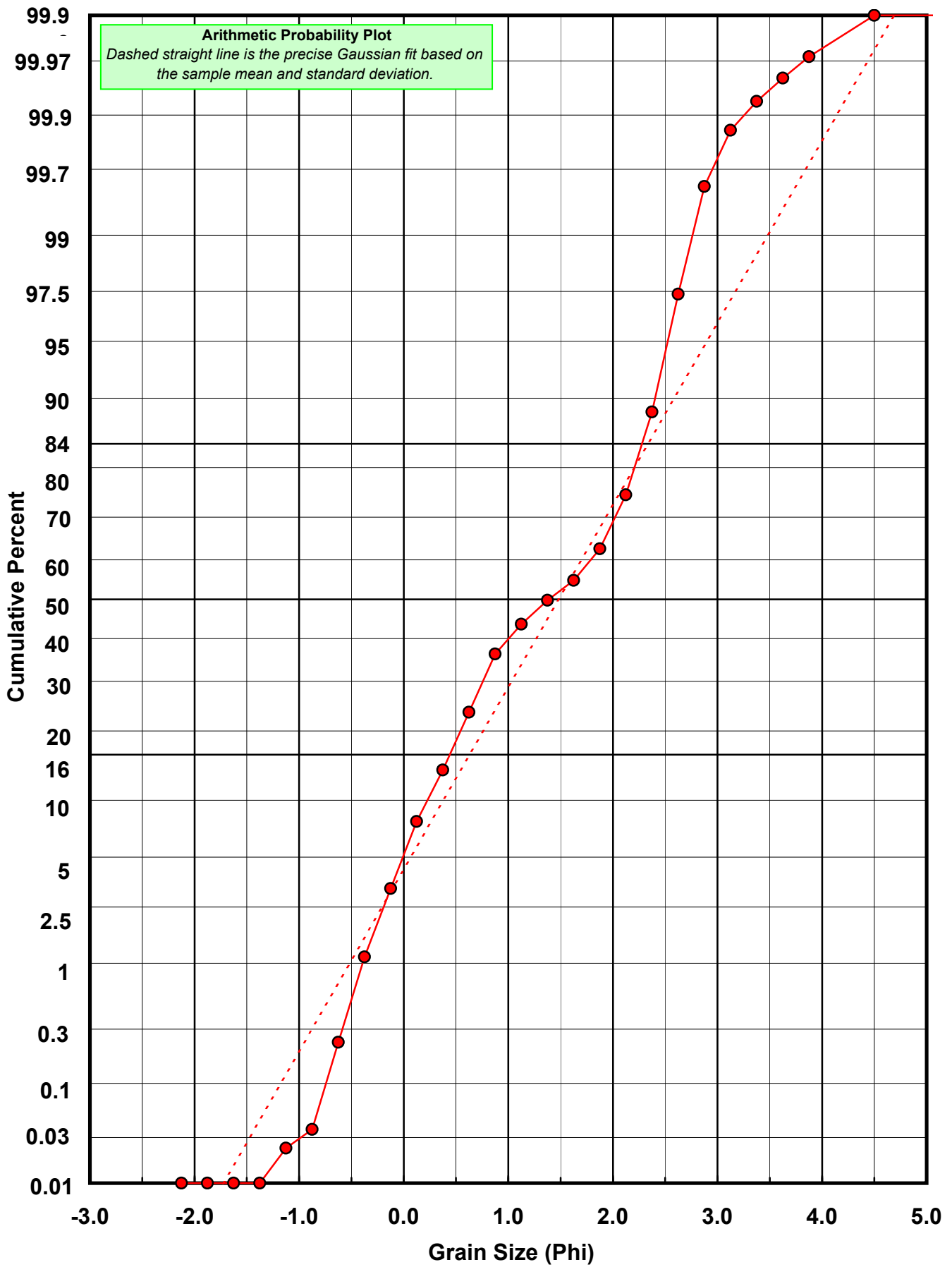
Statistical Results			
Mean:	1.4828	phi	(0.3578 mm)
Standard Dev:	0.8614	phi-units	(0.5504 mm)
Skewness:	-0.1631	dimensionless	
Kurtosis:	1.8933	dimensionless	
5th Moment:	-0.8272	dimensionless	
6th Moment:	5.5486	dimensionless	
RARD *	0.5809	dimensionless	
Median	1.3878	phi	(0.3821 mm)

* 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-39-SS

Total Carbonate Mass: 28.771 grams

% Carbonate: 39.5 %

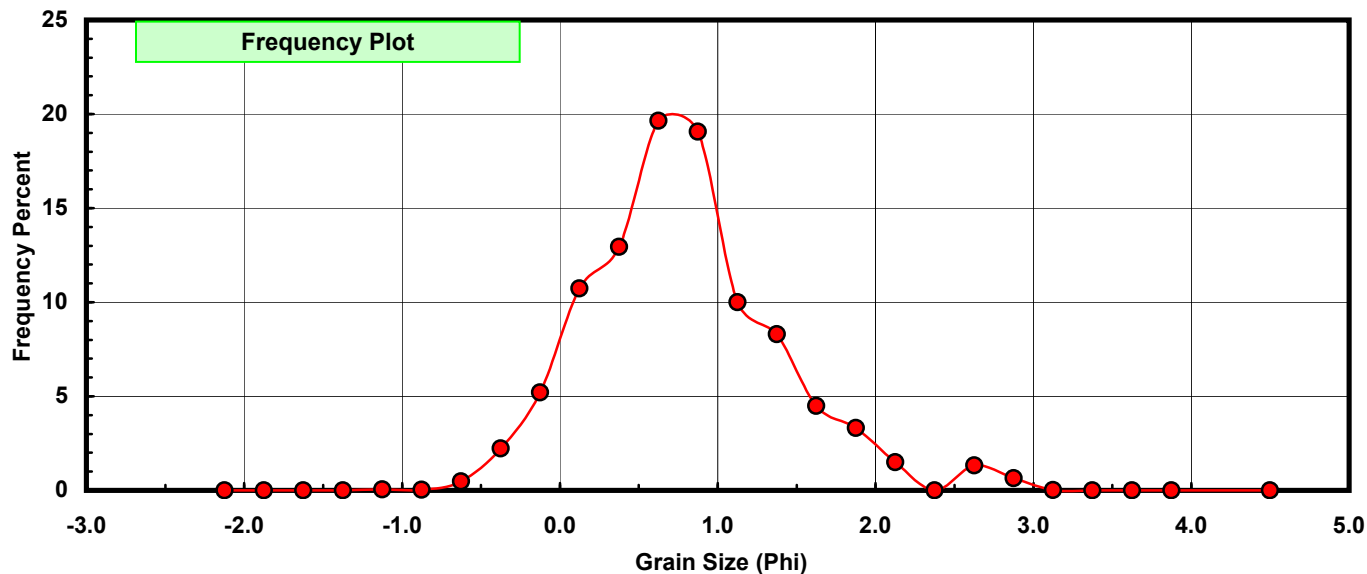
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.017	0.059	0.059
-0.75	-0.875	0.010	0.035	0.094
-0.50	-0.625	0.139	0.483	0.577
-0.25	-0.375	0.640	2.224	2.801
0.00	-0.125	1.499	5.210	8.012
0.25	0.125	3.086	10.726	18.738
0.50	0.375	3.726	12.951	31.688
0.75	0.625	5.650	19.638	51.326
1.00	0.875	5.486	19.068	70.394
1.25	1.125	2.876	9.996	80.390
1.50	1.375	2.389	8.304	88.693
1.75	1.625	1.292	4.491	93.184
2.00	1.875	0.954	3.316	96.500
2.25	2.125	0.431	1.498	97.998
2.50	2.375	0.000	0.000	97.998
2.75	2.625	0.382	1.328	99.326
3.00	2.875	0.188	0.653	99.979
3.25	3.125	0.006	0.021	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

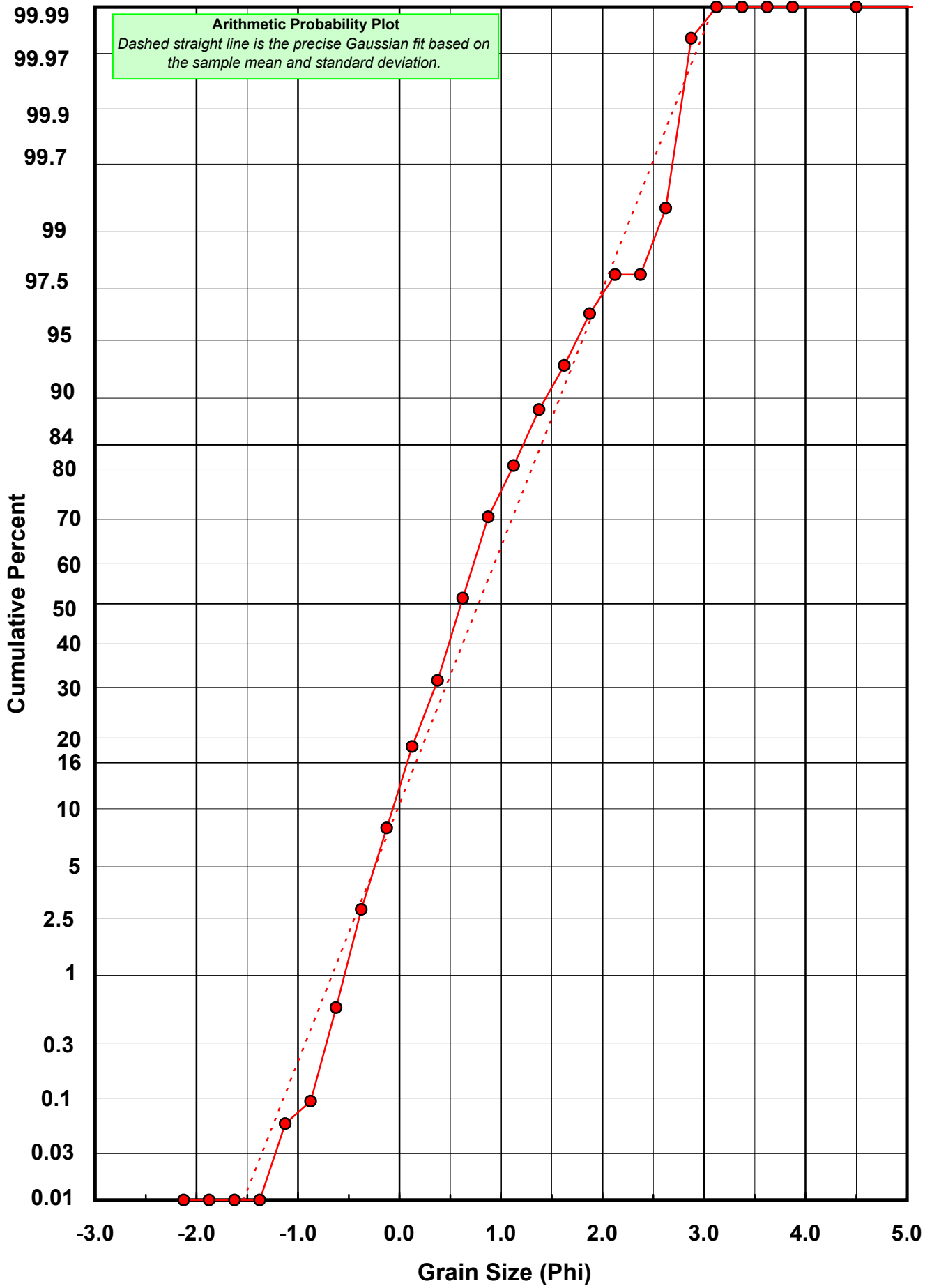
Statistical Results			
Mean:	0.7806	phi	(0.5821 mm)
Standard Dev:	0.6224	phi-units	(0.6496 mm)
Skewness:	0.6140	dimensionless	
Kurtosis:	3.7570	dimensionless	
5th Moment:	6.2954	dimensionless	
6th Moment:	25.6248	dimensionless	
RARD *	0.7973	dimensionless	
Median	0.6081	phi	(0.6561 mm)

* 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-39-SS

Total Digested Mass: 43.676 grams

% Silica: 60.5 %

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	0.009	0.021	0.021
0.00	-0.125	0.027	0.062	0.082
0.25	0.125	0.199	0.456	0.538
0.50	0.375	0.652	1.493	2.031
0.75	0.625	1.500	3.434	5.465
1.00	0.875	3.685	8.437	13.902
1.25	1.125	2.313	5.296	19.198
1.50	1.375	2.001	4.581	23.780
1.75	1.625	2.369	5.424	29.204
2.00	1.875	4.618	10.573	39.777
2.25	2.125	8.249	18.887	58.664
2.50	2.375	10.245	23.457	82.121
2.75	2.625	6.149	14.079	96.199
3.00	2.875	1.372	3.141	99.341
3.25	3.125	0.197	0.451	99.792
3.50	3.375	0.047	0.108	99.899
3.75	3.625	0.027	0.062	99.961
4.00	3.875	0.017	0.039	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.9501	phi	(0.2588 mm)
Standard Dev:	0.6572	phi-units	(0.6341 mm)
Skewness:	-0.7786	dimensionless	
Kurtosis:	2.6983	dimensionless	
5th Moment:	-4.0095	dimensionless	
6th Moment:	11.4476	dimensionless	
RARD *	0.3370	dimensionless	
Median	2.0103	phi	(0.2482 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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