

Onshore Grab Sample

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

County: Volusia
Latitude: 29° 22' 5.70"
Longitude: 81° 04' 30.60"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 70.415 grams
Total Fines in Sample 0.587 grams
Total Percent Fines 0.83 %

Dry Sieving Summary

Total Sample Weight 69.546 grams
Total Digested Weight 45.884 grams
Total Carbonate Weight 23.662 grams
Total Silica % 65.98 %
Total Carbonate % 34.02 %
Carbonate/Silica Ratio 0.516

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-05-SS

Total Sample Mass: 69.546 grams

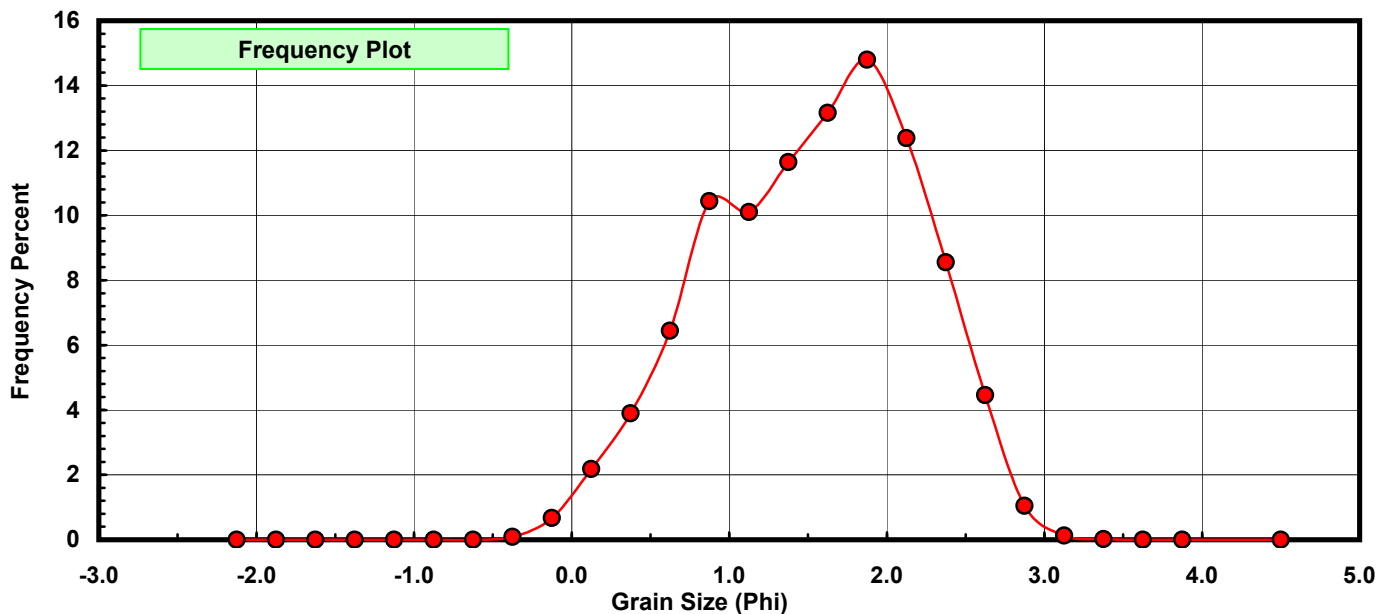
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.064	0.092	0.092
0.00	-0.125	0.467	0.671	0.764
0.25	0.125	1.518	2.183	2.946
0.50	0.375	2.713	3.901	6.847
0.75	0.625	4.479	6.440	13.288
1.00	0.875	7.259	10.438	23.725
1.25	1.125	7.025	10.101	33.827
1.50	1.375	8.093	11.637	45.463
1.75	1.625	9.153	13.161	58.625
2.00	1.875	10.289	14.795	73.419
2.25	2.125	8.613	12.385	85.804
2.50	2.375	5.950	8.555	94.359
2.75	2.625	3.099	4.456	98.815
3.00	2.875	0.727	1.045	99.861
3.25	3.125	0.086	0.124	99.984
3.50	3.375	0.011	0.016	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

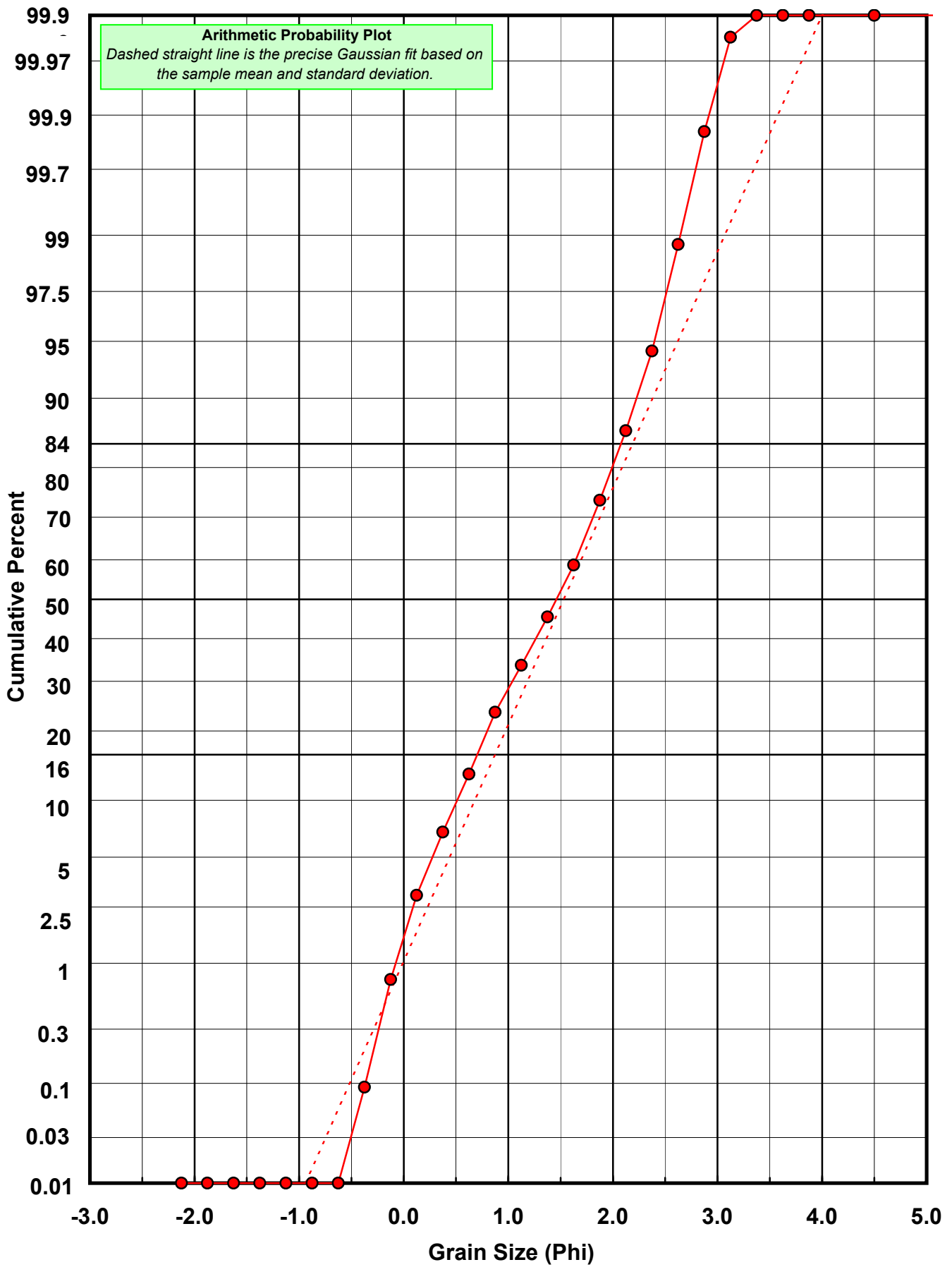
Statistical Results			
Mean:	1.5305	phi	(0.3462 mm)
Standard Dev:	0.6632	phi-units	(0.6315 mm)
Skewness:	-0.2379	dimensionless	
Kurtosis:	2.3688	dimensionless	
5th Moment:	-1.4301	dimensionless	
6th Moment:	8.2187	dimensionless	
RARD *	0.4333	dimensionless	
Median	1.4612	phi	(0.3632 mm)

* 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-SS

Total Carbonate Mass: 24.189 grams

% Carbonate: 34.0 %

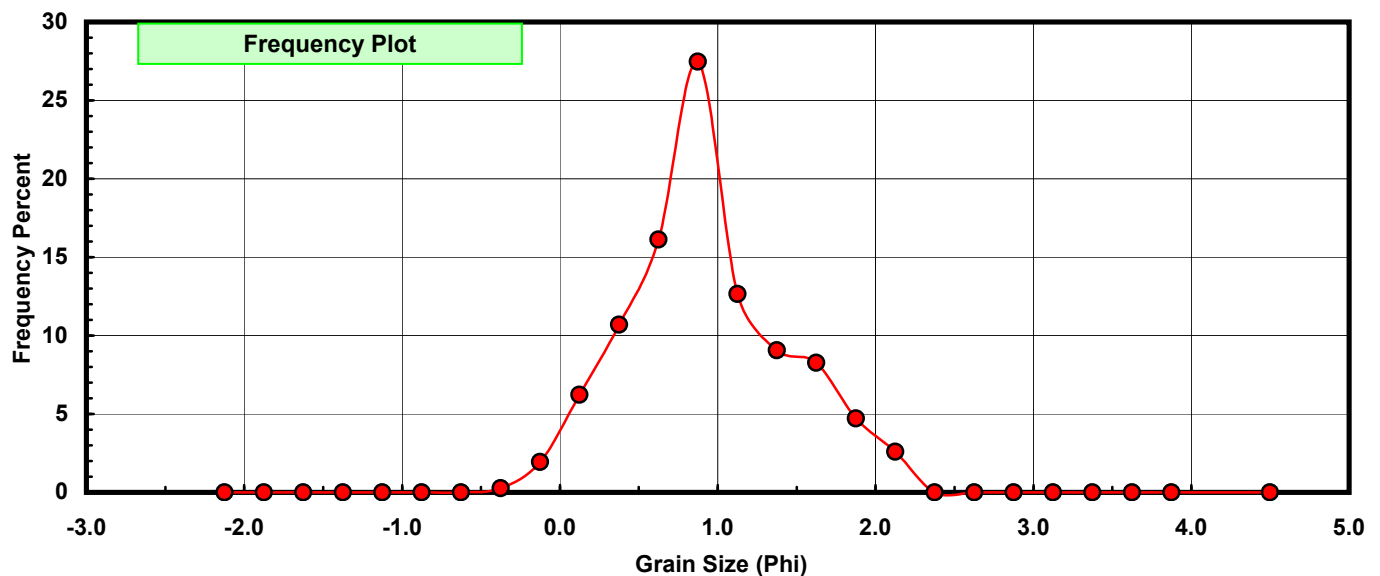
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.064	0.265	0.265
0.00	-0.125	0.467	1.931	2.195
0.25	0.125	1.505	6.222	8.417
0.50	0.375	2.586	10.691	19.108
0.75	0.625	3.899	16.119	35.227
1.00	0.875	6.644	27.467	62.694
1.25	1.125	3.062	12.659	75.352
1.50	1.375	2.194	9.070	84.423
1.75	1.625	1.999	8.264	92.687
2.00	1.875	1.142	4.721	97.408
2.25	2.125	0.627	2.592	100.000
2.50	2.375	0.000	0.000	100.000
2.75	2.625	0.000	0.000	100.000
3.00	2.875	0.000	0.000	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

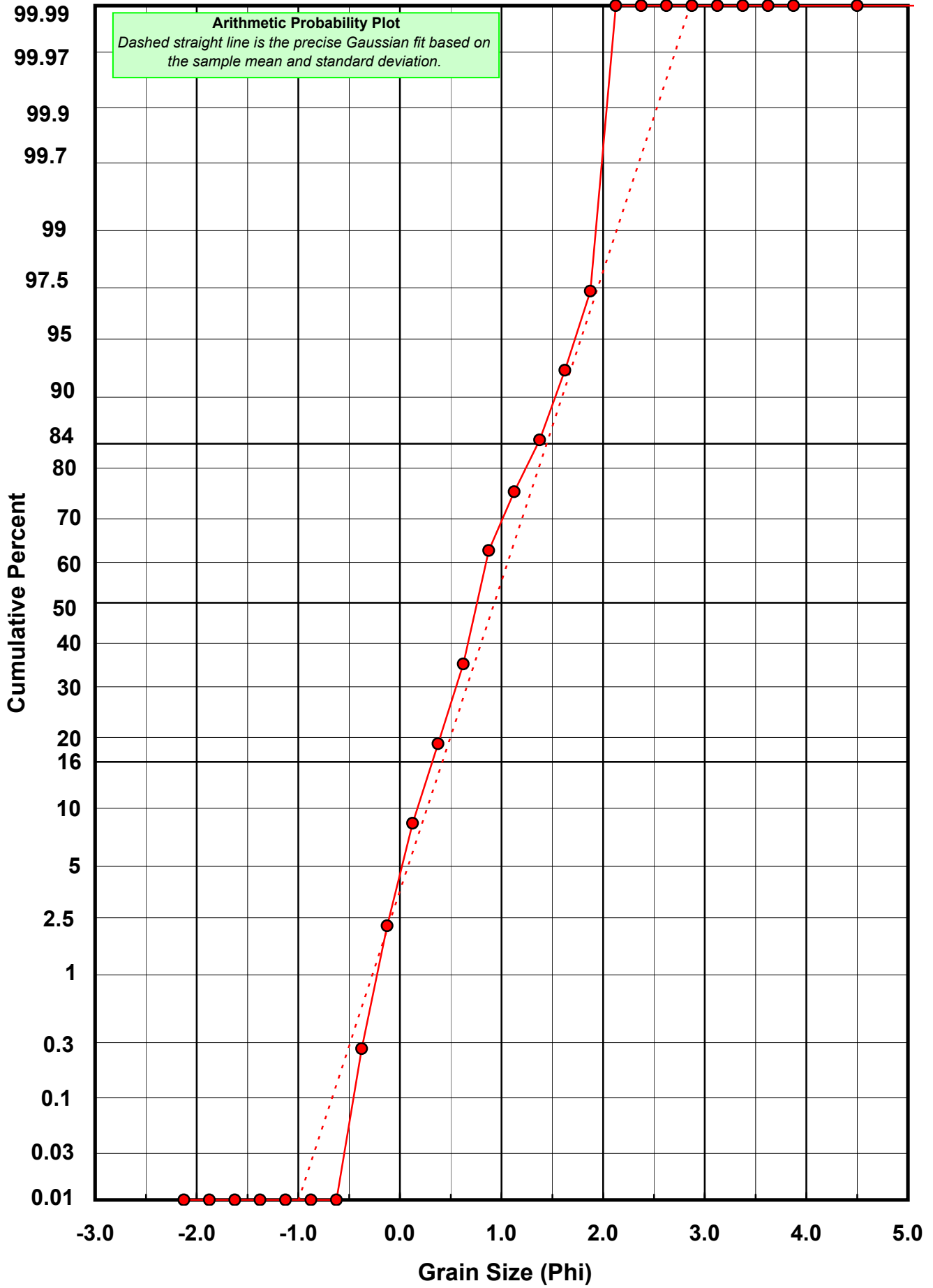
Statistical Results			
Mean:	0.9306	phi	(0.5247 mm)
Standard Dev:	0.5177	phi-units	(0.6985 mm)
Skewness:	0.2738	dimensionless	
Kurtosis:	2.6532	dimensionless	
5th Moment:	1.4282	dimensionless	
6th Moment:	9.6893	dimensionless	
RARD *	0.5563	dimensionless	
Median	0.7595	phi	(0.5907 mm)

* 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-SS

Total Digested Mass: 45.884 grams

% Silica: 66.0 %

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	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.013	0.028	0.028
0.50	0.375	0.127	0.277	0.305
0.75	0.625	0.580	1.264	1.569
1.00	0.875	0.615	1.340	2.910
1.25	1.125	3.963	8.637	11.547
1.50	1.375	5.899	12.856	24.403
1.75	1.625	7.154	15.591	39.994
2.00	1.875	9.147	19.935	59.929
2.25	2.125	7.986	17.405	77.334
2.50	2.375	6.045	13.175	90.509
2.75	2.625	3.365	7.334	97.842
3.00	2.875	0.853	1.859	99.701
3.25	3.125	0.125	0.272	99.974
3.50	3.375	0.011	0.024	99.998
3.75	3.625	0.001	0.002	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:	1.8599	phi	(0.2755 mm)
Standard Dev:	0.4943	phi-units	(0.7099 mm)
Skewness:	-0.1532	dimensionless	
Kurtosis:	2.6416	dimensionless	
5th Moment:	-1.3801	dimensionless	
6th Moment:	11.3577	dimensionless	
RARD *	0.2658	dimensionless	
Median	1.7505	phi	(0.2972 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)

