

Onshore Grab Sample

Sample: SL-22-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/16/08
Splits? N/A

County: St. Lucie
Latitude: 27° 17' 08.1"
Longitude: 80° 12' 37.9"
Datum: WGS 84
Surf. Elev: 0
Datum: N/A

Fine Data Summary

Total Sample Weight 59.33 grams
Total Fines in Sample 0.178 grams
Total Percent Fines 0.30 %

Dry Sieving Summary

Total Sample Weight 56.156 grams
Total Digested Weight 27.702 grams
Total Carbonate Weight 28.454 grams
Total Silica % 49.33 %
Total Carbonate % 50.67 %
Carbonate/Silica Ratio 1.027

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SL-22-BB

Total Sample Mass: 56.156 grams

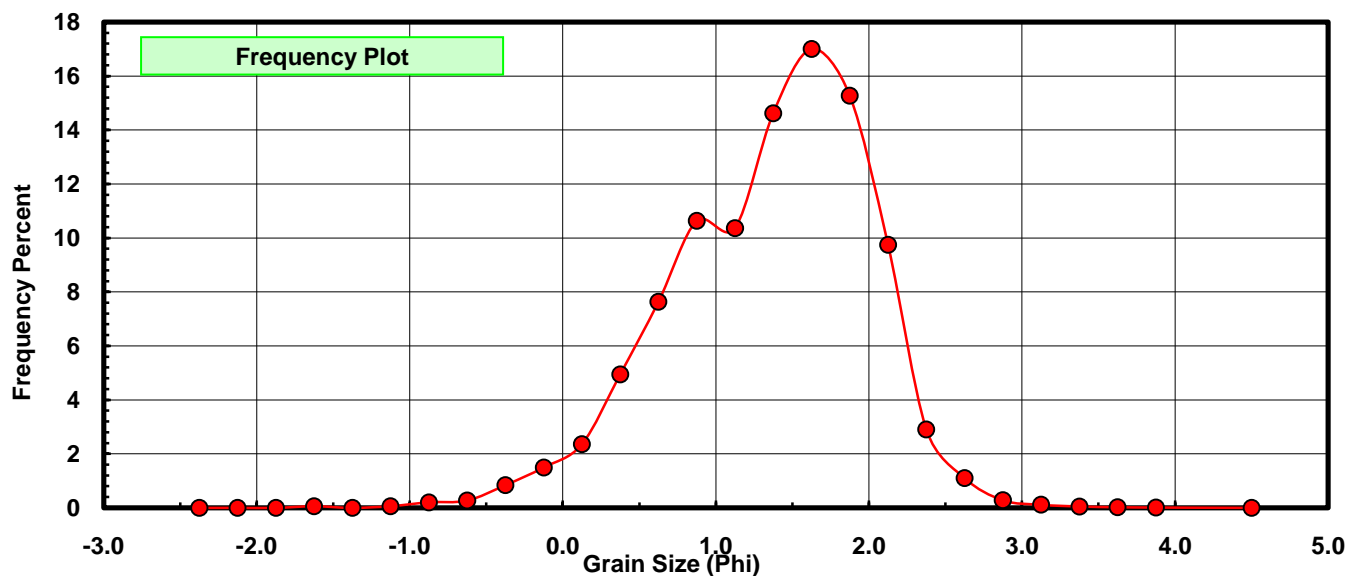
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.034	0.061	0.061
-1.25	-1.375	0.000	0.000	0.061
-1.00	-1.125	0.035	0.062	0.123
-0.75	-0.875	0.115	0.205	0.328
-0.50	-0.625	0.152	0.271	0.598
-0.25	-0.375	0.472	0.841	1.439
0.00	-0.125	0.841	1.498	2.936
0.25	0.125	1.325	2.359	5.296
0.50	0.375	2.776	4.943	10.239
0.75	0.625	4.285	7.631	17.870
1.00	0.875	5.972	10.635	28.505
1.25	1.125	5.819	10.362	38.867
1.50	1.375	8.211	14.622	53.488
1.75	1.625	9.547	17.001	70.489
2.00	1.875	8.575	15.270	85.759
2.25	2.125	5.473	9.746	95.505
2.50	2.375	1.632	2.906	98.412
2.75	2.625	0.621	1.106	99.517
3.00	2.875	0.158	0.281	99.799
3.25	3.125	0.064	0.114	99.913
3.50	3.375	0.029	0.052	99.964
3.75	3.625	0.013	0.023	99.988
4.00	3.875	0.007	0.012	100.000
5.00	4.50	0.000	0.000	100.000

Statistical Results			
Mean:	1.3521	phi	(0.3917 mm)
Standard Dev:	0.6504	phi-units	(0.6371 mm)
Skewness:	-0.5287	dimensionless	
Kurtosis:	3.3491	dimensionless	
5th Moment:	-4.9512	dimensionless	
6th Moment:	23.7451	dimensionless	
RARD *	0.4811	dimensionless	
Median	1.3154	phi	(0.4018 mm)

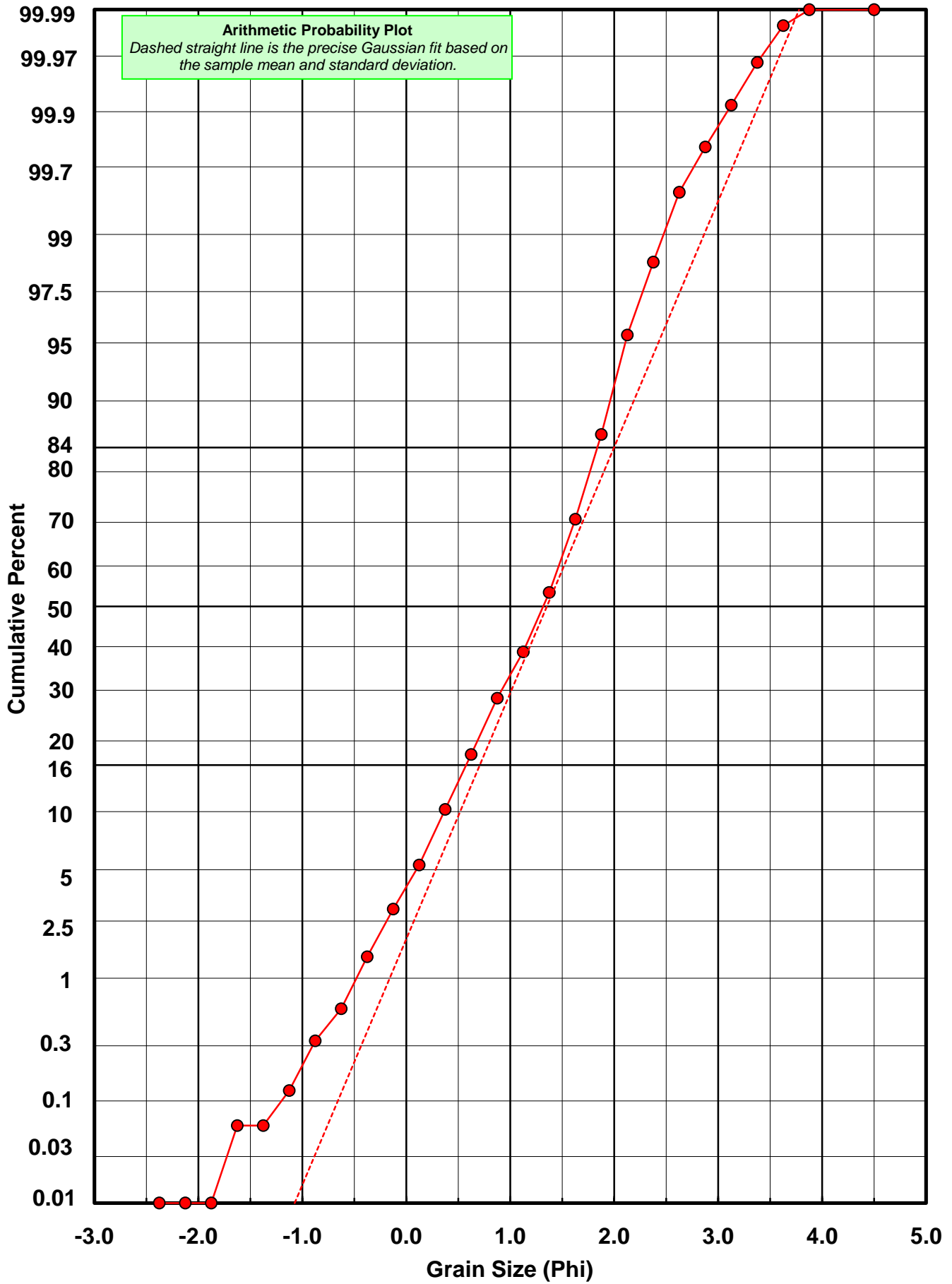
* RARD = reciprocal absolute relative dispersion (see below)

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 Basille et al. 2002	
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)



SL-22-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SL-22-BB

Total Carbonate Mass: 28.496 grams

% Carbonate: 50.7 %

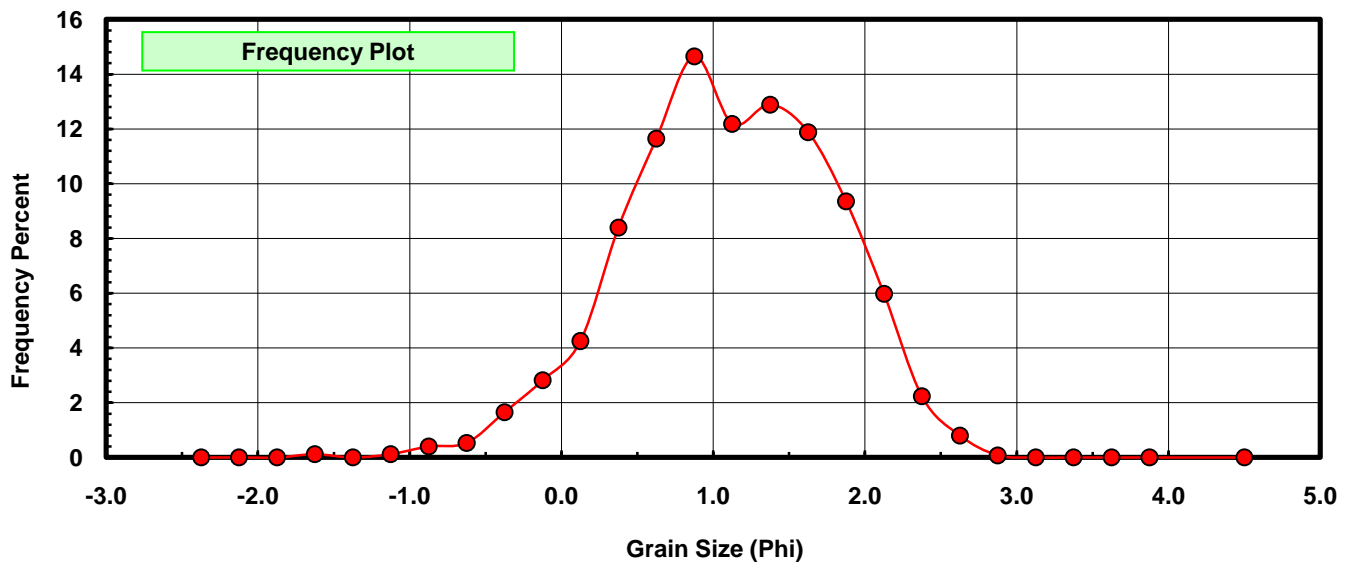
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.034	0.119	0.119
-1.25	-1.375	0.000	0.000	0.119
-1.00	-1.125	0.035	0.123	0.242
-0.75	-0.875	0.115	0.404	0.646
-0.50	-0.625	0.152	0.533	1.179
-0.25	-0.375	0.472	1.656	2.835
0.00	-0.125	0.803	2.818	5.653
0.25	0.125	1.212	4.253	9.907
0.50	0.375	2.394	8.401	18.308
0.75	0.625	3.318	11.644	29.952
1.00	0.875	4.174	14.648	44.599
1.25	1.125	3.471	12.181	56.780
1.50	1.375	3.673	12.890	69.669
1.75	1.625	3.386	11.882	81.552
2.00	1.875	2.665	9.352	90.904
2.25	2.125	1.703	5.976	96.880
2.50	2.375	0.637	2.235	99.116
2.75	2.625	0.229	0.804	99.919
3.00	2.875	0.023	0.081	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:	1.1040	phi	(0.4652 mm)
Standard Dev:	0.6921	phi-units	(0.6189 mm)
Skewness:	-0.2662	dimensionless	
Kurtosis:	2.8707	dimensionless	
5th Moment:	-2.9876	dimensionless	
6th Moment:	15.6382	dimensionless	
RARD *	0.6269	dimensionless	
Median	0.9858	phi	(0.5049 mm)

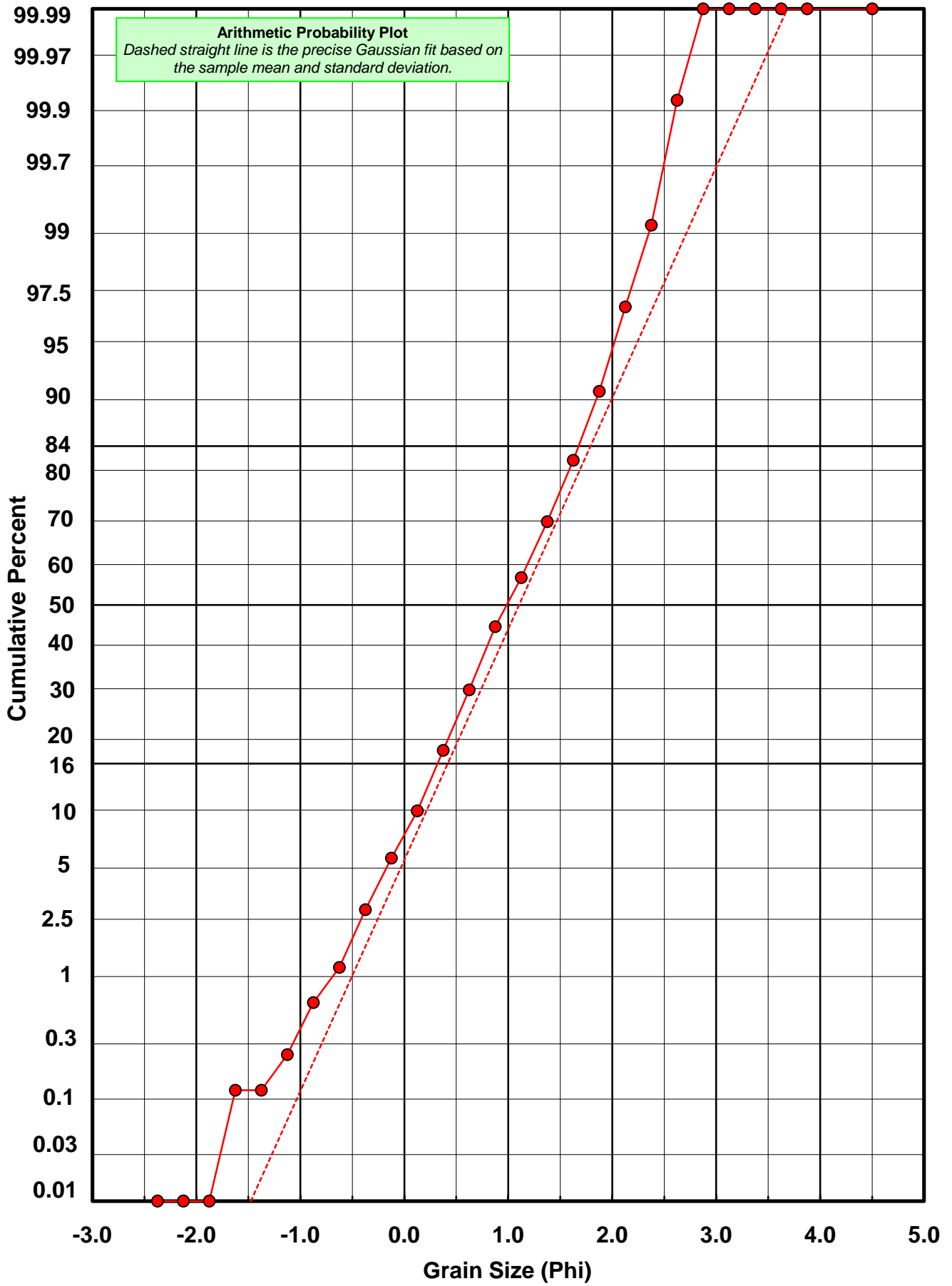
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Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
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SL-22-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SL-22-BB

Total Digested Mass: 27.702 grams

% Silica: 49.3 %

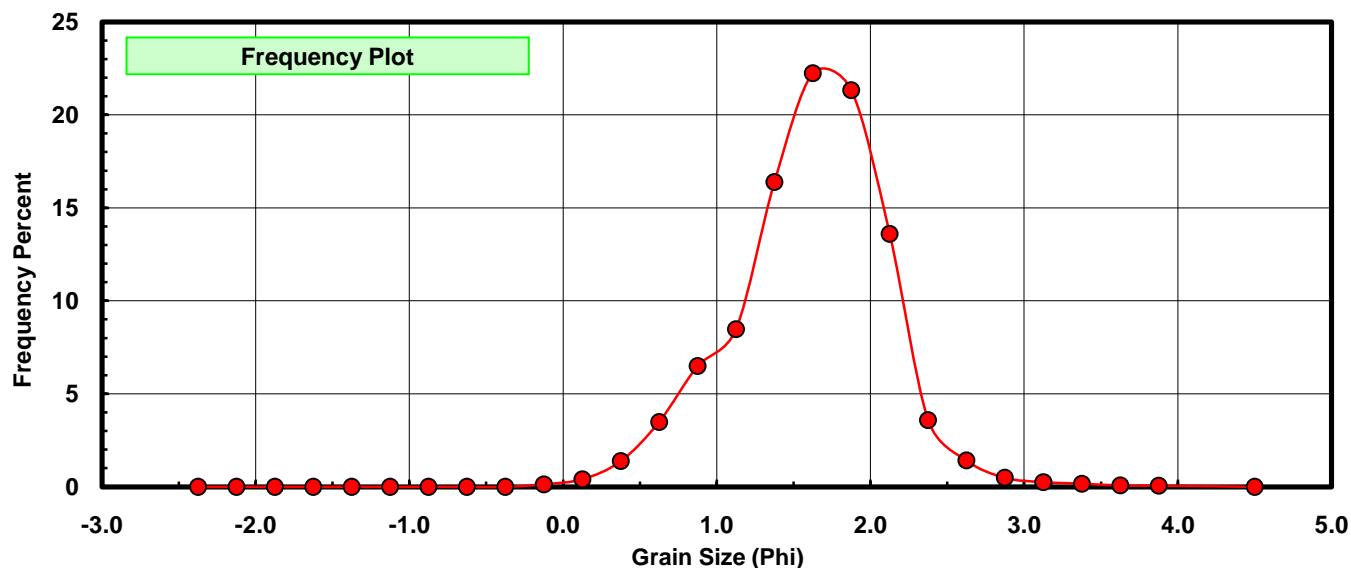
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-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.038	0.137	0.137
0.25	0.125	0.113	0.408	0.545
0.50	0.375	0.382	1.379	1.924
0.75	0.625	0.967	3.491	5.415
1.00	0.875	1.798	6.491	11.905
1.25	1.125	2.348	8.476	20.381
1.50	1.375	4.538	16.381	36.763
1.75	1.625	6.161	22.240	59.003
2.00	1.875	5.910	21.334	80.337
2.25	2.125	3.770	13.609	93.946
2.50	2.375	0.995	3.592	97.538
2.75	2.625	0.392	1.415	98.953
3.00	2.875	0.135	0.487	99.440
3.25	3.125	0.070	0.253	99.693
3.50	3.375	0.047	0.170	99.863
3.75	3.625	0.020	0.072	99.935
4.00	3.875	0.018	0.065	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.6106	phi	(0.3275 mm)
Standard Dev:	0.5031	phi-units	(0.7056 mm)
Skewness:	-0.1870	dimensionless	
Kurtosis:	3.7350	dimensionless	
5th Moment:	0.5679	dimensionless	
6th Moment:	27.9322	dimensionless	
RARD *	0.3124	dimensionless	
Median	1.5238	phi	(0.3478 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
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