

Onshore Grab Sample

Sample: SL-11-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/16/08
Splits? N/A

County: St. Lucie
Latitude: 27° 25' 24.9"
Longitude: 80° 16' 24.9"
Datum: WGS 84
Surf. Elev: 0
Datum: N/A

Fine Data Summary

Total Sample Weight 70.008 grams
Total Fines in Sample 0.101 grams
Total Percent Fines 0.14 %

Dry Sieving Summary

Total Sample Weight 70.024 grams
Total Digested Weight 25.974 grams
Total Carbonate Weight 44.050 grams
Total Silica % 37.09 %
Total Carbonate % 62.91 %
Carbonate/Silica Ratio 1.696

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SL-11-BB

Total Sample Mass: 70.024 grams

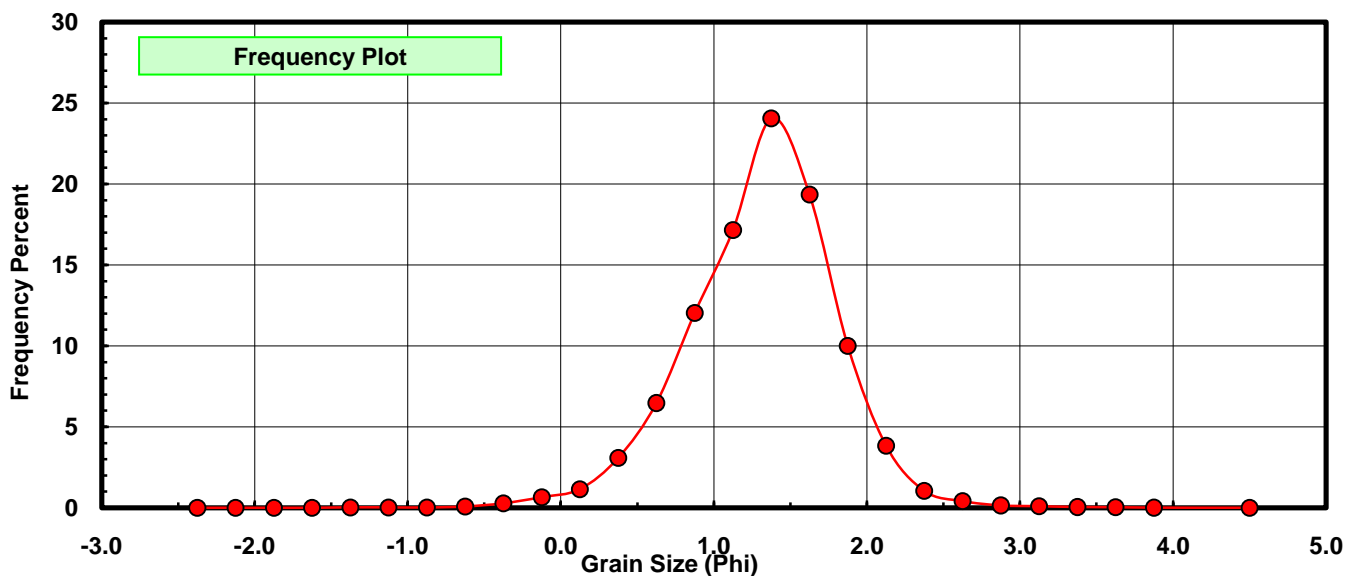
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.019	0.027	0.027
-1.00	-1.125	0.017	0.024	0.051
-0.75	-0.875	0.012	0.017	0.069
-0.50	-0.625	0.055	0.079	0.147
-0.25	-0.375	0.194	0.277	0.424
0.00	-0.125	0.459	0.655	1.080
0.25	0.125	0.805	1.150	2.229
0.50	0.375	2.155	3.078	5.307
0.75	0.625	4.532	6.472	11.779
1.00	0.875	8.423	12.029	23.808
1.25	1.125	12.015	17.158	40.966
1.50	1.375	16.838	24.046	65.012
1.75	1.625	13.551	19.352	84.364
2.00	1.875	7.007	10.007	94.371
2.25	2.125	2.689	3.840	98.211
2.50	2.375	0.730	1.042	99.253
2.75	2.625	0.288	0.411	99.664
3.00	2.875	0.103	0.147	99.811
3.25	3.125	0.067	0.096	99.907
3.50	3.375	0.034	0.049	99.956
3.75	3.625	0.025	0.036	99.991
4.00	3.875	0.006	0.009	100.000
5.00	4.50	0.000	0.000	100.000

Statistical Results			
Mean:	1.3089	phi	(0.4036 mm)
Standard Dev:	0.4919	phi-units	(0.7111 mm)
Skewness:	-0.3049	dimensionless	
Kurtosis:	4.3199	dimensionless	
5th Moment:	-3.1870	dimensionless	
6th Moment:	44.1408	dimensionless	
RARD *	0.3758	dimensionless	
Median	1.2189	phi	(0.4296 mm)

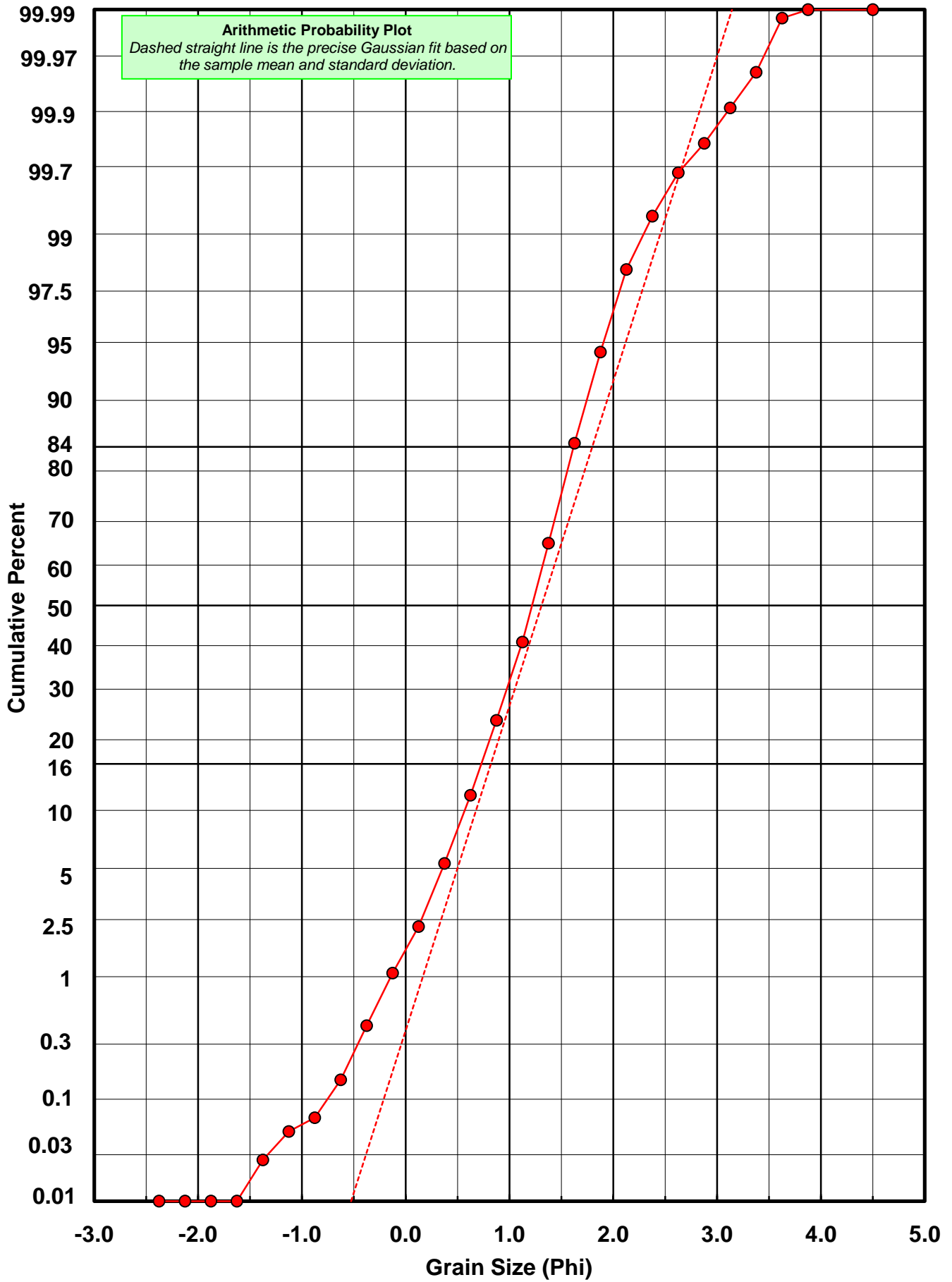
* RARD = reciprocal absolute relative dispersion (see below)

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-11-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SL-11-BB

Total Carbonate Mass: 44.134 grams

% Carbonate: 62.9 %

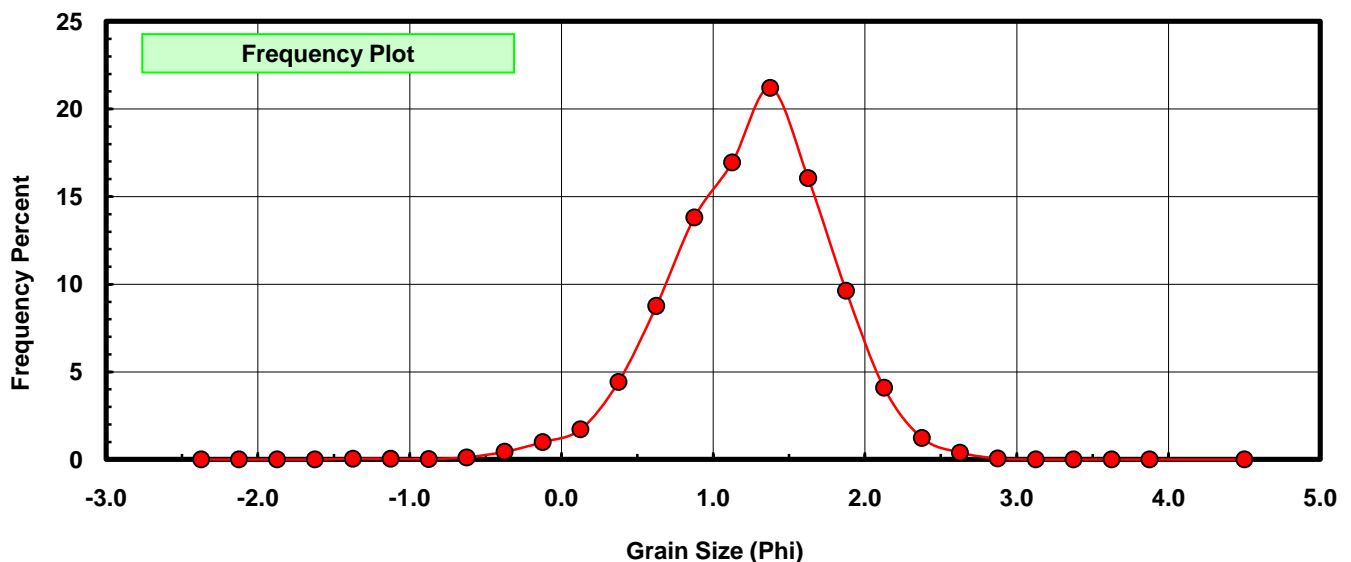
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.019	0.043	0.043
-1.00	-1.125	0.017	0.039	0.082
-0.75	-0.875	0.012	0.027	0.109
-0.50	-0.625	0.055	0.125	0.233
-0.25	-0.375	0.194	0.440	0.673
0.00	-0.125	0.437	0.990	1.663
0.25	0.125	0.758	1.717	3.381
0.50	0.375	1.951	4.421	7.801
0.75	0.625	3.868	8.764	16.565
1.00	0.875	6.093	13.806	30.371
1.25	1.125	7.480	16.948	47.320
1.50	1.375	9.359	21.206	68.525
1.75	1.625	7.086	16.056	84.581
2.00	1.875	4.253	9.637	94.218
2.25	2.125	1.807	4.094	98.312
2.50	2.375	0.544	1.233	99.545
2.75	2.625	0.176	0.399	99.943
3.00	2.875	0.025	0.057	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:	1.2416	phi	(0.4229 mm)
Standard Dev:	0.5279	phi-units	(0.6935 mm)
Skewness:	-0.3782	dimensionless	
Kurtosis:	3.5192	dimensionless	
5th Moment:	-4.8403	dimensionless	
6th Moment:	27.1317	dimensionless	
RARD *	0.4252	dimensionless	
Median	1.1566	phi	(0.4486 mm)

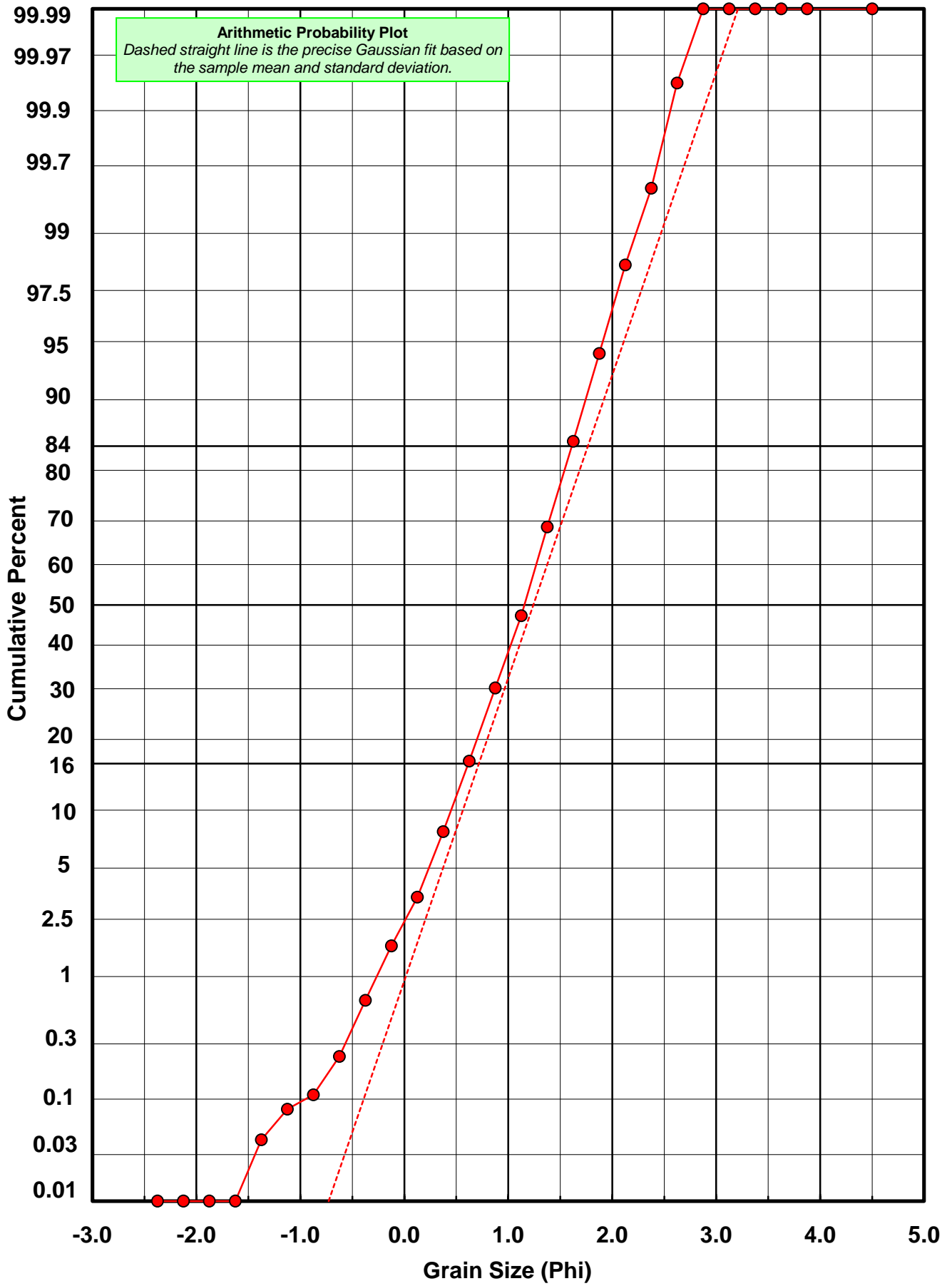
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Millimeter data calculated by $mm = 2^{(-\phi)}$	

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SL-11-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SL-11-BB

Total Digested Mass: 25.974 grams

% Silica: 37.1 %

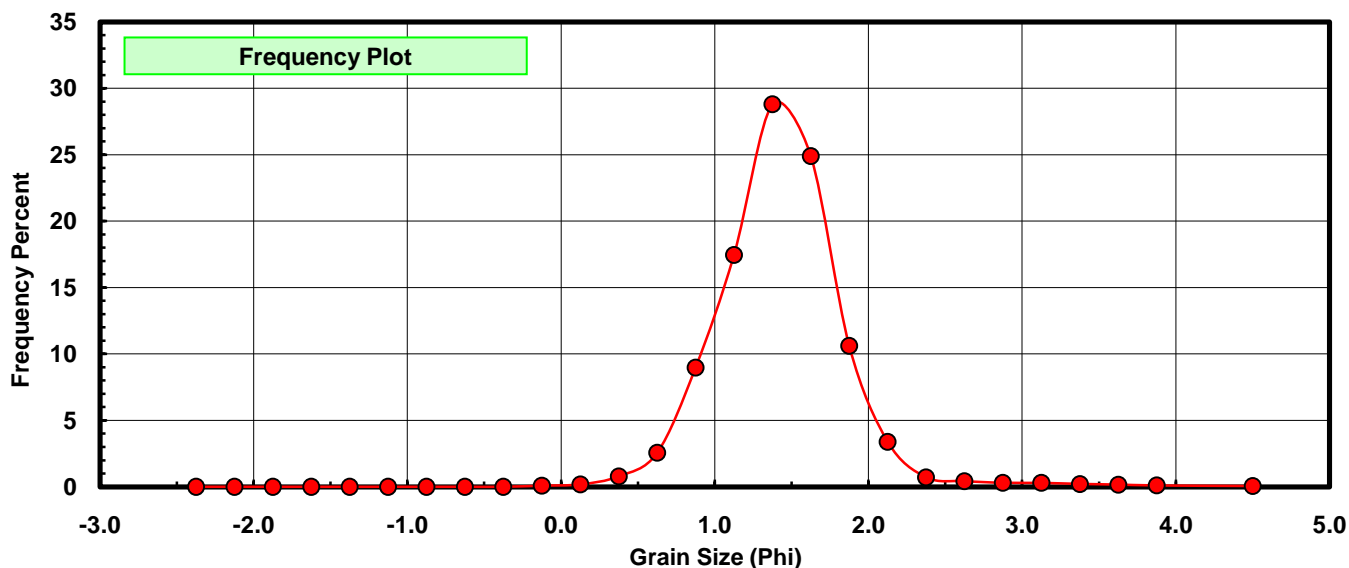
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
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-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	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	0.022	0.085	0.085
0.25	0.125	0.047	0.181	0.266
0.50	0.375	0.204	0.785	1.051
0.75	0.625	0.664	2.556	3.607
1.00	0.875	2.330	8.971	12.578
1.25	1.125	4.535	17.460	30.038
1.50	1.375	7.479	28.794	58.832
1.75	1.625	6.465	24.890	83.722
2.00	1.875	2.754	10.603	94.325
2.25	2.125	0.882	3.396	97.721
2.50	2.375	0.186	0.716	98.437
2.75	2.625	0.112	0.431	98.868
3.00	2.875	0.078	0.300	99.168
3.25	3.125	0.076	0.293	99.461
3.50	3.375	0.056	0.216	99.677
3.75	3.625	0.043	0.166	99.842
4.00	3.875	0.026	0.100	99.942
5.00	4.500	0.015	0.058	100.000

Statistical Results			
Mean:	1.4312	phi	(0.3708 mm)
Standard Dev:	0.4289	phi-units	(0.7429 mm)
Skewness:	0.9665	dimensionless	
Kurtosis:	8.0221	dimensionless	
5th Moment:	30.9989	dimensionless	
6th Moment:	193.3886	dimensionless	
RARD *	0.2997	dimensionless	
Median	1.2983	phi	(0.4066 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{(-phi)}$	

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