

Onshore Grab Sample

Sample: SL-01
Sample Taken By: D. Phelps
Sample Collected On: 10/30/08
Splits? N/A

County: St. Lucie
Latitude: 27° 33' 12.6"
Longitude: 80° 19' 13.2"
Datum: WGS 84
Surf. Elev: 0
Datum: N/A

Fine Data Summary

Total Sample Weight 55.363 grams
Total Fines in Sample 0.184 grams
Total Percent Fines 0.33 %

Dry Sieving Summary

Total Sample Weight 55.153 grams
Total Digested Weight 37.475 grams
Total Carbonate Weight 17.678 grams
Total Silica % 67.95 %
Total Carbonate % 32.05 %
Carbonate/Silica Ratio 0.472

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SL-01

Total Sample Mass: 55.153 grams

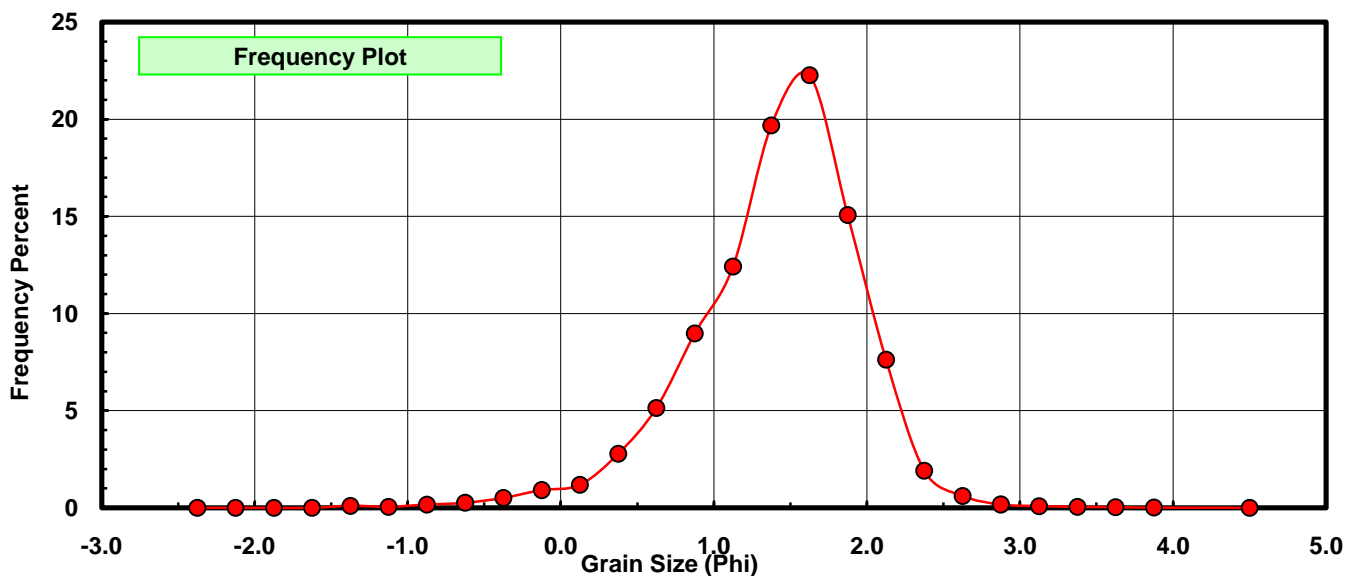
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.058	0.105	0.105
-1.00	-1.125	0.031	0.056	0.161
-0.75	-0.875	0.092	0.167	0.328
-0.50	-0.625	0.142	0.257	0.586
-0.25	-0.375	0.282	0.511	1.097
0.00	-0.125	0.504	0.914	2.011
0.25	0.125	0.652	1.182	3.193
0.50	0.375	1.532	2.778	5.971
0.75	0.625	2.835	5.140	11.111
1.00	0.875	4.948	8.971	20.082
1.25	1.125	6.845	12.411	32.493
1.50	1.375	10.851	19.674	52.168
1.75	1.625	12.283	22.271	74.438
2.00	1.875	8.308	15.064	89.502
2.25	2.125	4.203	7.621	97.123
2.50	2.375	1.051	1.906	99.028
2.75	2.625	0.339	0.615	99.643
3.00	2.875	0.095	0.172	99.815
3.25	3.125	0.049	0.089	99.904
3.50	3.375	0.029	0.053	99.956
3.75	3.625	0.018	0.033	99.989
4.00	3.875	0.006	0.011	100.000
5.00	4.50	0.000	0.000	100.000

Statistical Results			
Mean:	1.4032	phi	(0.3781 mm)
Standard Dev:	0.5574	phi-units	(0.6795 mm)
Skewness:	-0.7899	dimensionless	
Kurtosis:	4.8464	dimensionless	
5th Moment:	-10.6005	dimensionless	
6th Moment:	54.4176	dimensionless	
RARD *	0.3973	dimensionless	
Median	1.3475	phi	(0.393 mm)

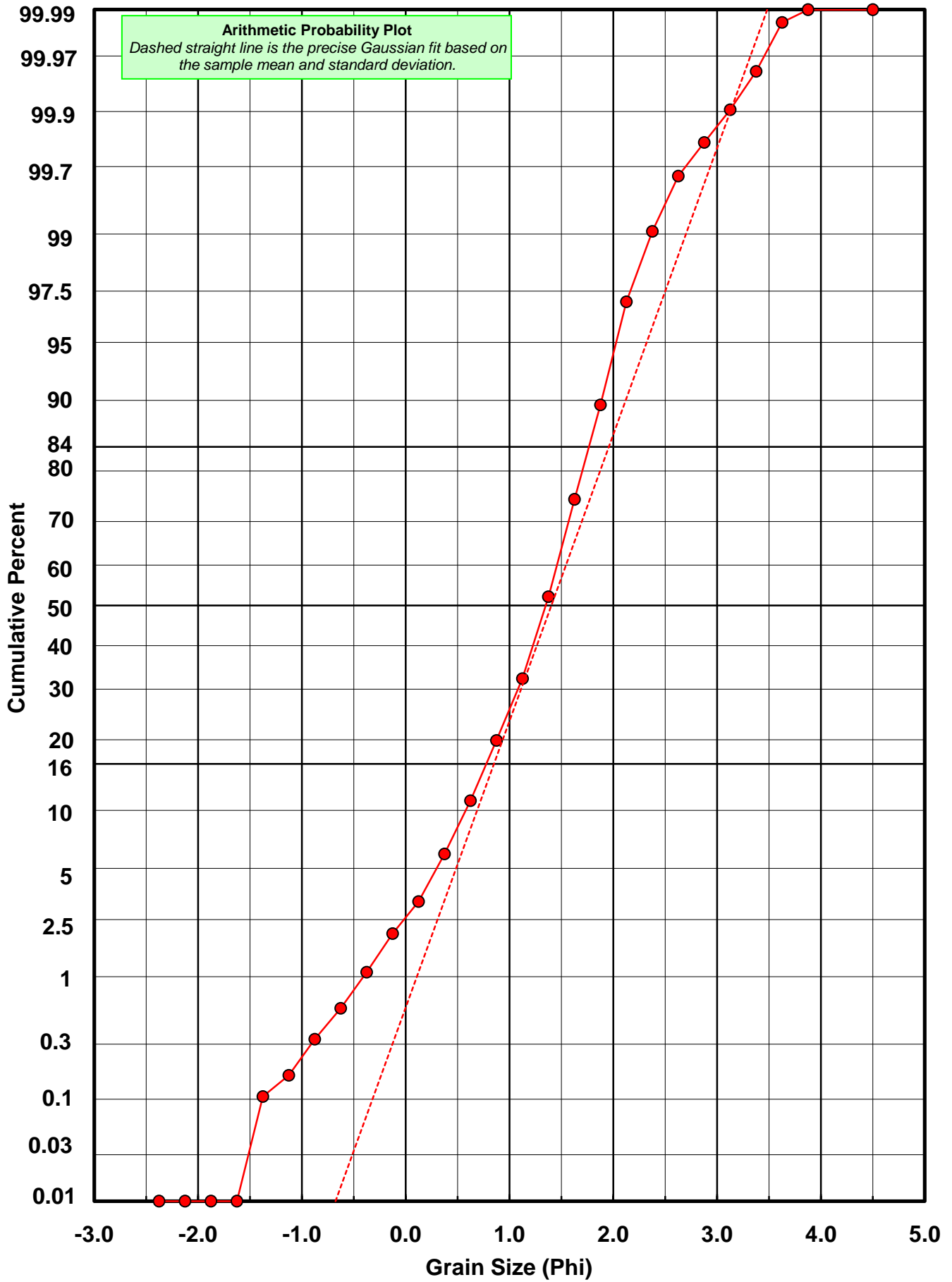
* RARD = reciprocal absolute relative dispersion (see below)

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-01



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SL-01

Total Carbonate Mass: 17.703 grams

% Carbonate: 32.1 %

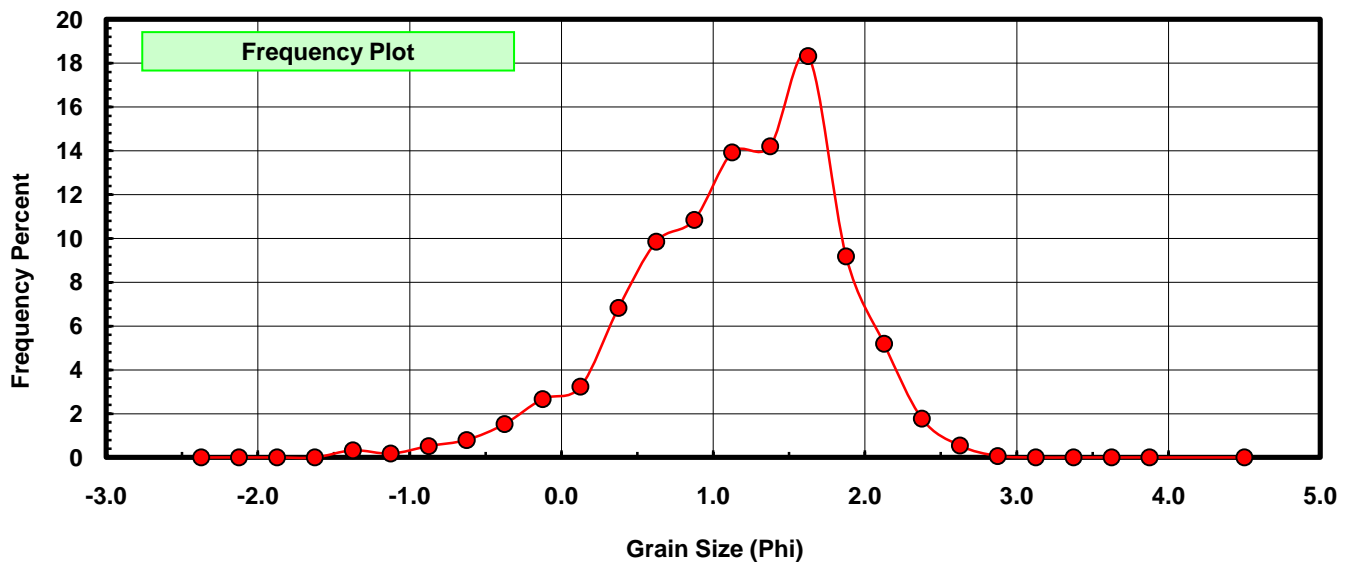
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.058	0.328	0.328
-1.00	-1.125	0.031	0.175	0.503
-0.75	-0.875	0.092	0.520	1.022
-0.50	-0.625	0.142	0.802	1.825
-0.25	-0.375	0.270	1.525	3.350
0.00	-0.125	0.473	2.672	6.022
0.25	0.125	0.572	3.231	9.253
0.50	0.375	1.208	6.824	16.076
0.75	0.625	1.744	9.851	25.928
1.00	0.875	1.921	10.851	36.779
1.25	1.125	2.465	13.924	50.703
1.50	1.375	2.515	14.207	64.910
1.75	1.625	3.245	18.330	83.240
2.00	1.875	1.626	9.185	92.425
2.25	2.125	0.919	5.191	97.616
2.50	2.375	0.314	1.774	99.390
2.75	2.625	0.096	0.542	99.932
3.00	2.875	0.012	0.068	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:	1.1517	phi	(0.4501 mm)
Standard Dev:	0.6925	phi-units	(0.6188 mm)
Skewness:	-0.6334	dimensionless	
Kurtosis:	3.3353	dimensionless	
5th Moment:	-5.8403	dimensionless	
6th Moment:	21.7729	dimensionless	
RARD *	0.6012	dimensionless	
Median	1.1124	phi	(0.4625 mm)

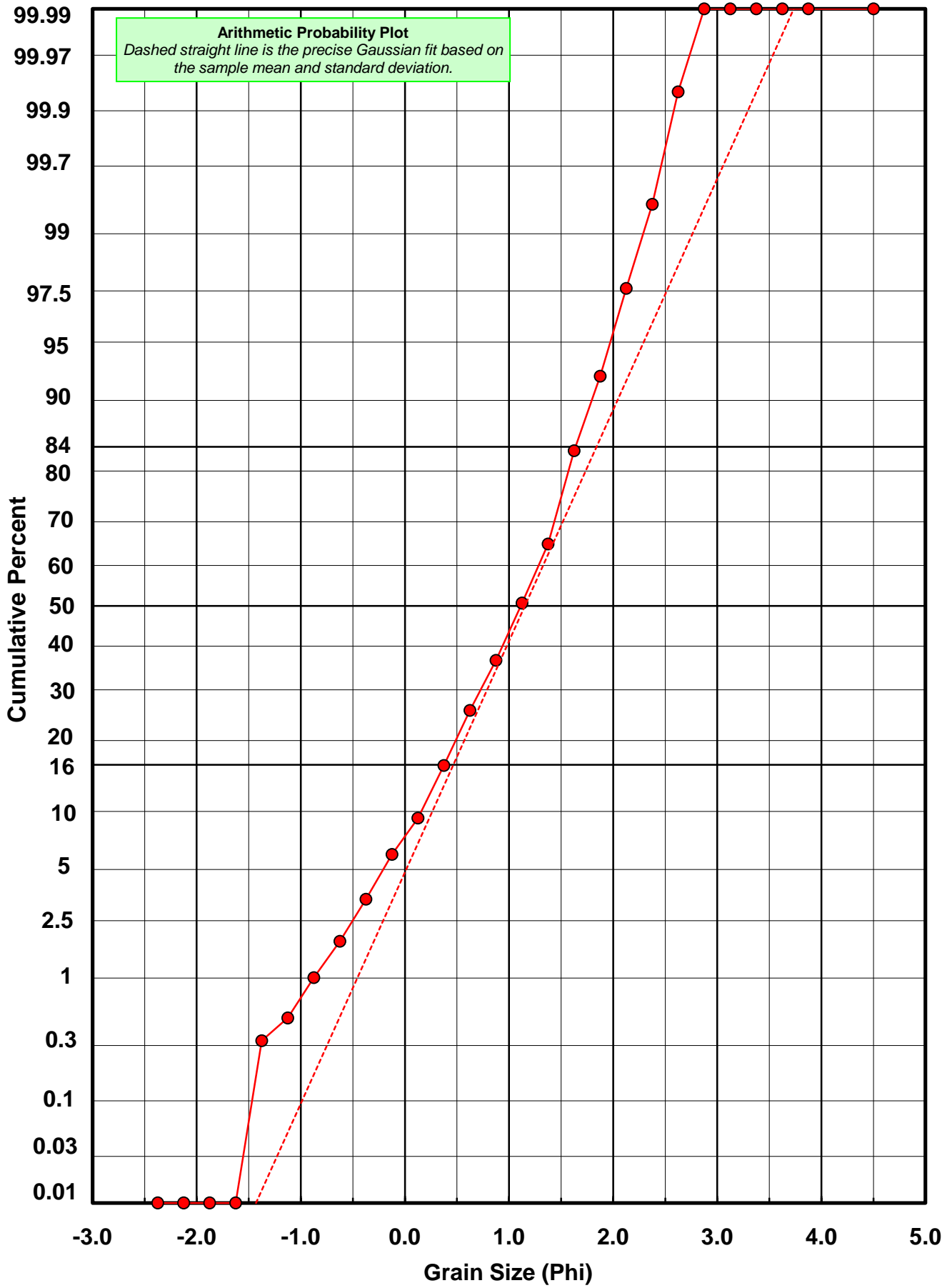
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Statistical Explanation	
Calculations based on the Method of Moments	
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0	
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
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Millimeter data calculated by $mm = 2^{(-\phi)}$	

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Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SL-01

Total Digested Mass: 37.475 grams

% Silica: 67.9 %

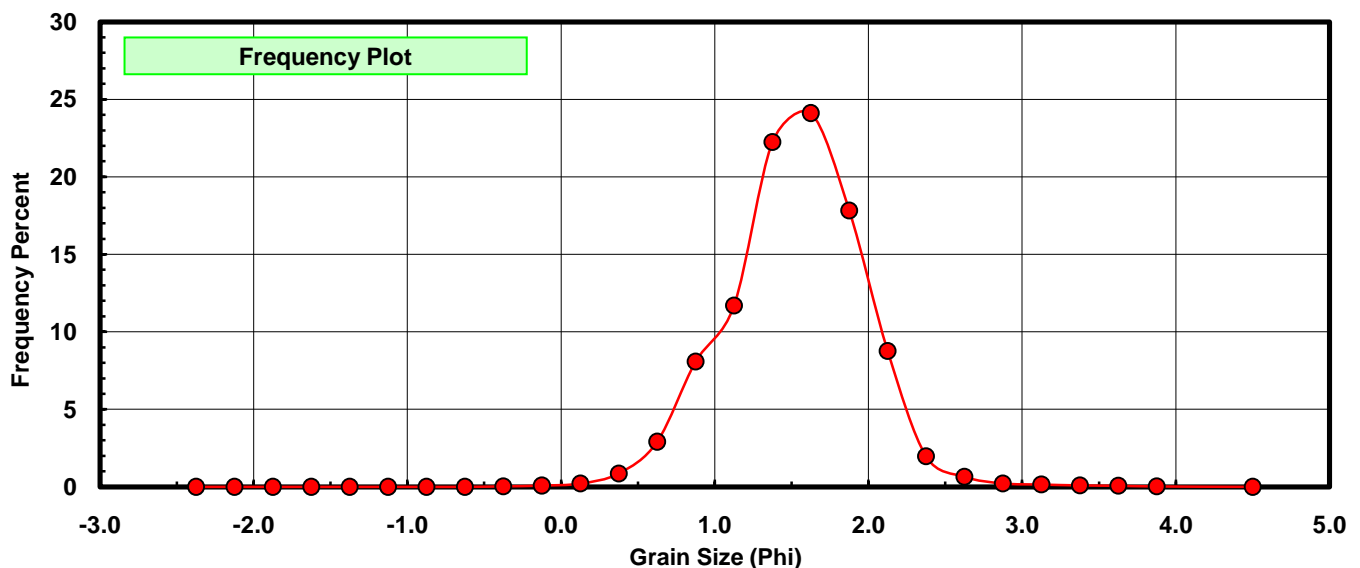
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-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.012	0.032	0.032
0.00	-0.125	0.031	0.083	0.115
0.25	0.125	0.080	0.213	0.328
0.50	0.375	0.324	0.865	1.193
0.75	0.625	1.091	2.911	4.104
1.00	0.875	3.027	8.077	12.181
1.25	1.125	4.380	11.688	23.869
1.50	1.375	8.336	22.244	46.113
1.75	1.625	9.038	24.117	70.231
2.00	1.875	6.682	17.831	88.061
2.25	2.125	3.284	8.763	96.825
2.50	2.375	0.737	1.967	98.791
2.75	2.625	0.243	0.648	99.440
3.00	2.875	0.083	0.221	99.661
3.25	3.125	0.056	0.149	99.811
3.50	3.375	0.035	0.093	99.904
3.75	3.625	0.026	0.069	99.973
4.00	3.875	0.010	0.027	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.5234	phi	(0.3479 mm)
Standard Dev:	0.4463	phi-units	(0.7339 mm)
Skewness:	-0.0086	dimensionless	
Kurtosis:	3.9817	dimensionless	
5th Moment:	2.7117	dimensionless	
6th Moment:	38.2135	dimensionless	
RARD *	0.2930	dimensionless	
Median	1.4153	phi	(0.3749 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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