

Onshore Grab Sample

Sample: PB-09-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/6/09
Splits? N/A

County: Palm Beach
Latitude: 26° 51' 24.4"
Longitude: 80° 02' 44.1"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 63.591 grams
Total Fines in Sample 0.049 grams
Total Percent Fines 0.08 %

Dry Sieving Summary

Total Sample Weight 63.434 grams
Total Digested Weight 30.327 grams
Total Carbonate Weight 33.107 grams
Total Silica % 47.81 %
Total Carbonate % 52.19 %
Carbonate/Silica Ratio 1.092

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PB-09-BB

Total Sample Mass: 63.434 grams

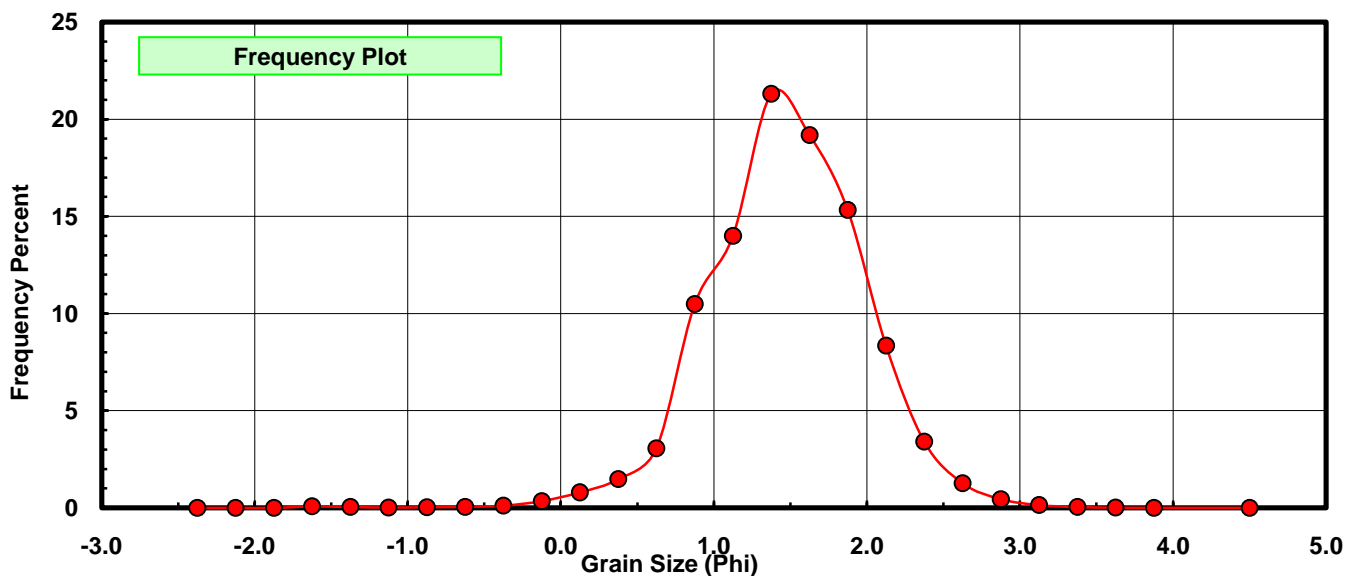
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.048	0.076	0.076
-1.25	-1.375	0.028	0.044	0.120
-1.00	-1.125	0.011	0.017	0.137
-0.75	-0.875	0.021	0.033	0.170
-0.50	-0.625	0.035	0.055	0.225
-0.25	-0.375	0.071	0.112	0.337
0.00	-0.125	0.221	0.348	0.686
0.25	0.125	0.506	0.798	1.483
0.50	0.375	0.935	1.474	2.957
0.75	0.625	1.940	3.058	6.016
1.00	0.875	6.650	10.483	16.499
1.25	1.125	8.883	14.004	30.503
1.50	1.375	13.518	21.310	51.813
1.75	1.625	12.172	19.188	71.001
2.00	1.875	9.722	15.326	86.328
2.25	2.125	5.295	8.347	94.675
2.50	2.375	2.160	3.405	98.080
2.75	2.625	0.806	1.271	99.351
3.00	2.875	0.285	0.449	99.800
3.25	3.125	0.091	0.143	99.943
3.50	3.375	0.027	0.043	99.986
3.75	3.625	0.007	0.011	99.997
4.00	3.875	0.002	0.003	100.000
5.00	4.50	0.000	0.000	100.000

Statistical Results			
Mean:	1.4745	phi	(0.3598 mm)
Standard Dev:	0.5179	phi-units	(0.6984 mm)
Skewness:	-0.3829	dimensionless	
Kurtosis:	4.8546	dimensionless	
5th Moment:	-10.6841	dimensionless	
6th Moment:	74.3803	dimensionless	
RARD *	0.3512	dimensionless	
Median	1.3537	phi	(0.3913 mm)

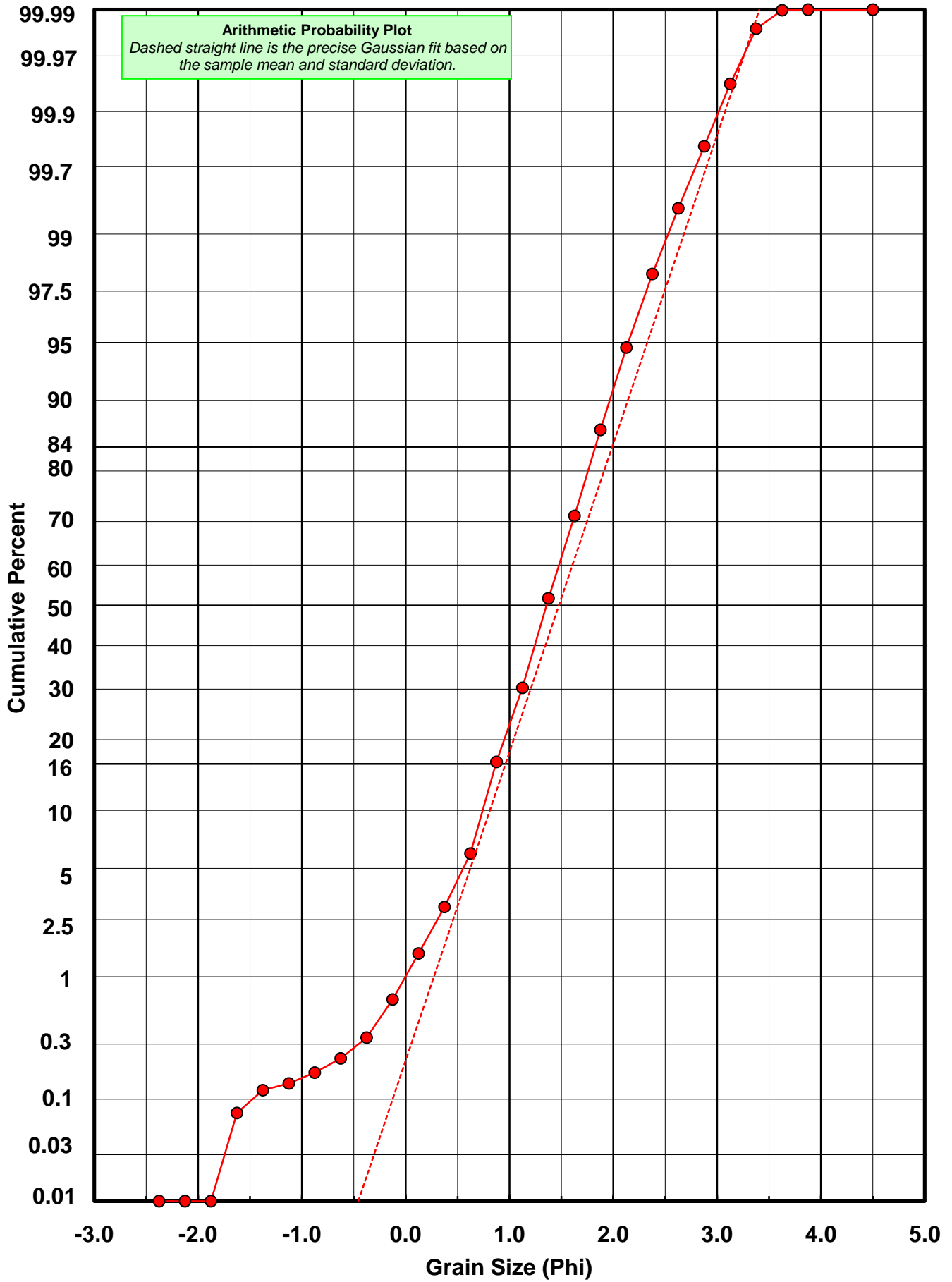
* RARD = reciprocal absolute relative dispersion (see below)

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)



PB-09-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PB-09-BB

Total Carbonate Mass: 33.218 grams

% Carbonate: 52.2 %

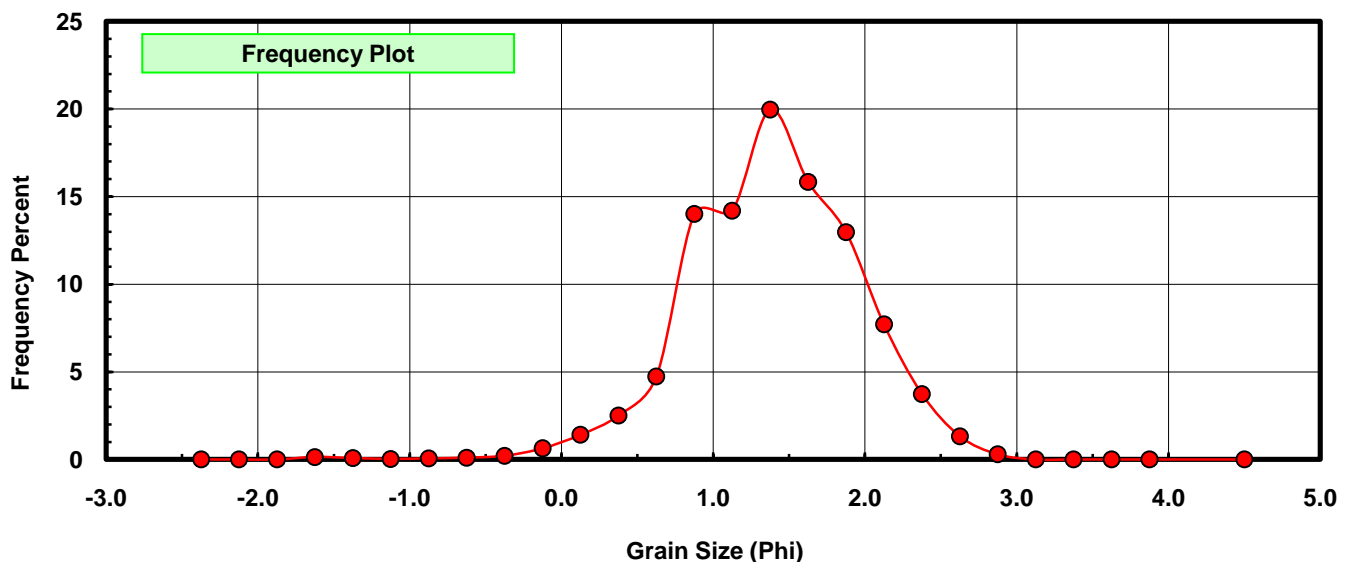
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.048	0.144	0.144
-1.25	-1.375	0.028	0.084	0.229
-1.00	-1.125	0.011	0.033	0.262
-0.75	-0.875	0.021	0.063	0.325
-0.50	-0.625	0.035	0.105	0.430
-0.25	-0.375	0.071	0.214	0.644
0.00	-0.125	0.212	0.638	1.282
0.25	0.125	0.468	1.409	2.691
0.50	0.375	0.834	2.511	5.202
0.75	0.625	1.572	4.732	9.934
1.00	0.875	4.653	14.007	23.942
1.25	1.125	4.718	14.203	38.145
1.50	1.375	6.634	19.971	58.116
1.75	1.625	5.263	15.844	73.960
2.00	1.875	4.310	12.975	86.935
2.25	2.125	2.560	7.707	94.641
2.50	2.375	1.242	3.739	98.380
2.75	2.625	0.441	1.328	99.708
3.00	2.875	0.097	0.292	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:	1.3876	phi	(0.3822 mm)
Standard Dev:	0.5723	phi-units	(0.6726 mm)
Skewness:	-0.4965	dimensionless	
Kurtosis:	4.5116	dimensionless	
5th Moment:	-11.0930	dimensionless	
6th Moment:	60.3964	dimensionless	
RARD *	0.4124	dimensionless	
Median	1.2734	phi	(0.4137 mm)

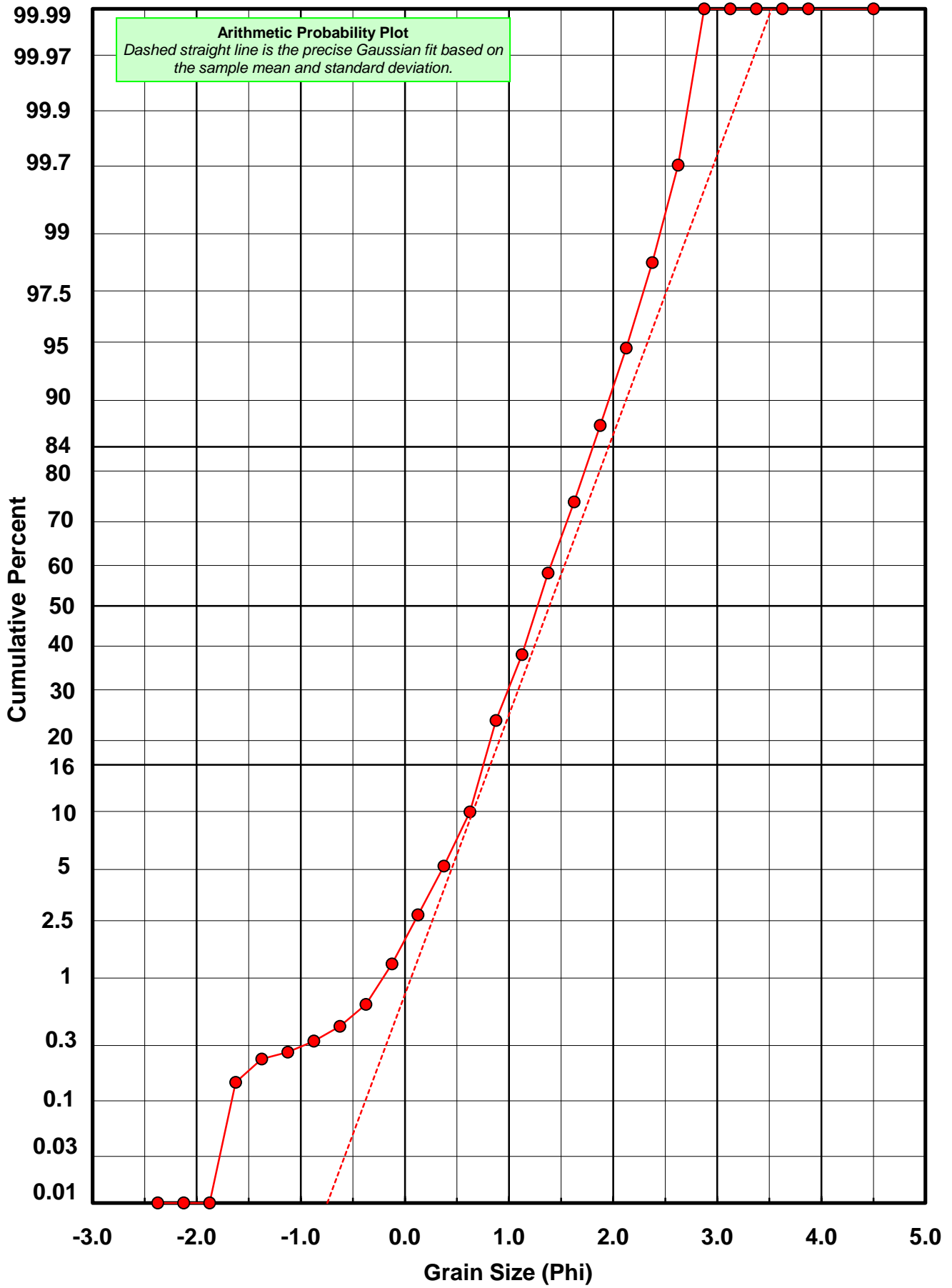
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Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
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PB-09-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PB-09-BB

Total Digested Mass: 30.327 grams

% Silica: 47.8 %

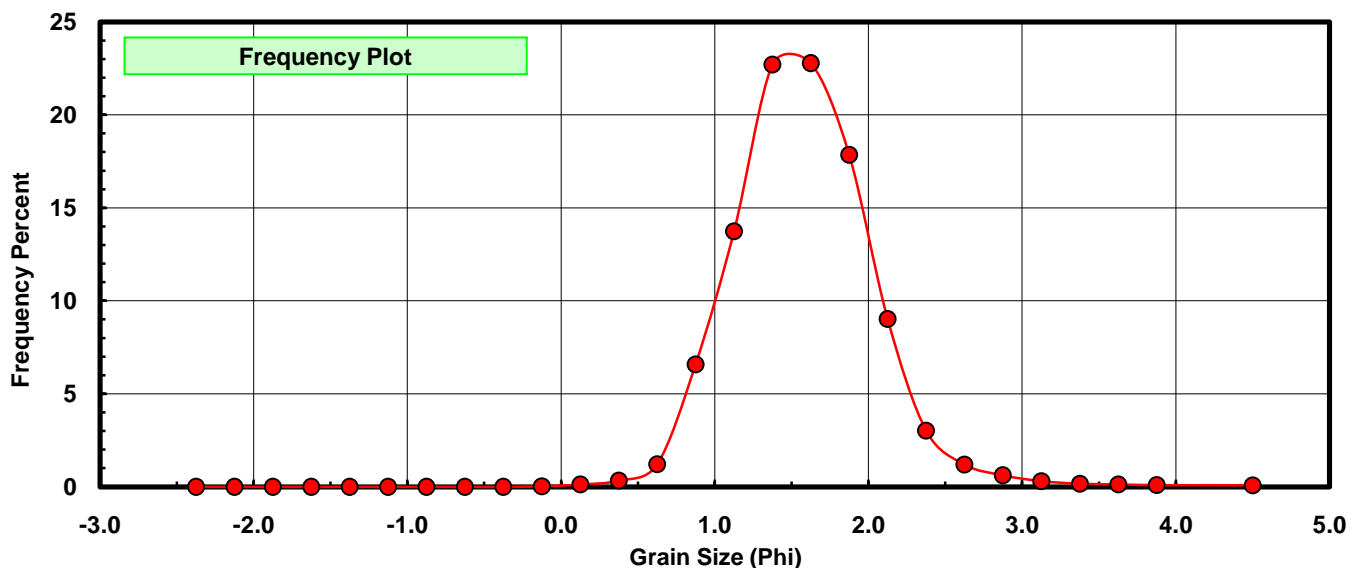
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.009	0.030	0.030
0.25	0.125	0.038	0.125	0.155
0.50	0.375	0.101	0.333	0.488
0.75	0.625	0.368	1.213	1.701
1.00	0.875	1.997	6.585	8.286
1.25	1.125	4.165	13.734	22.020
1.50	1.375	6.884	22.699	44.719
1.75	1.625	6.909	22.782	67.501
2.00	1.875	5.412	17.845	85.346
2.25	2.125	2.735	9.018	94.365
2.50	2.375	0.918	3.027	97.392
2.75	2.625	0.365	1.204	98.595
3.00	2.875	0.188	0.620	99.215
3.25	3.125	0.093	0.307	99.522
3.50	3.375	0.051	0.168	99.690
3.75	3.625	0.040	0.132	99.822
4.00	3.875	0.028	0.092	99.914
5.00	4.500	0.026	0.086	100.000

Statistical Results			
Mean:	1.5784	phi	(0.3348 mm)
Standard Dev:	0.4615	phi-units	(0.7262 mm)
Skewness:	0.7122	dimensionless	
Kurtosis:	5.6369	dimensionless	
5th Moment:	17.5484	dimensionless	
6th Moment:	103.4627	dimensionless	
RARD *	0.2924	dimensionless	
Median	1.4329	phi	(0.3704 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 $mm = 2^{(-phi)}$	

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