

Onshore Grab Sample

Sample: PI-17-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/8/09
Splits? N/A

County: Pinellas
Latitude: 27° 57' 48.9"
Longitude: 82° 49' 51.8"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	60.005 grams
Total Fines in Sample	0.592 grams
Total Percent Fines	0.98 %

Dry Sieving Summary

Total Sample Weight	59.418 grams
Total Digested Weight	29.195 grams
Total Carbonate Weight	30.223 grams
Total Silica %	49.13 %
Total Carbonate %	50.87 %
Carbonate/Silica Ratio	1.035

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-17-BB

Total Sample Mass: 59.418 grams

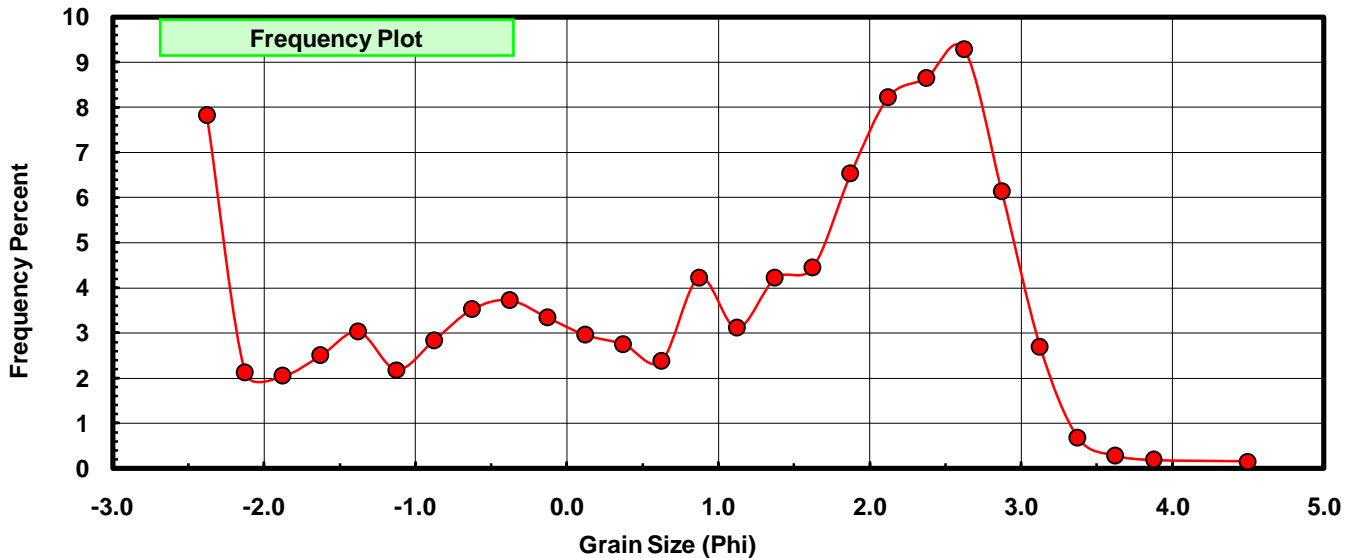
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	4.647	7.821	7.821
-2.00	-2.125	1.257	2.116	9.936
-1.75	-1.875	1.215	2.045	11.981
-1.50	-1.625	1.486	2.501	14.482
-1.25	-1.375	1.798	3.026	17.508
-1.00	-1.125	1.298	2.185	19.693
-0.75	-0.875	1.682	2.831	22.523
-0.50	-0.625	2.094	3.524	26.048
-0.25	-0.375	2.212	3.723	29.770
0.00	-0.125	1.984	3.339	33.109
0.25	0.125	1.757	2.957	36.067
0.50	0.375	1.632	2.747	38.813
0.75	0.625	1.409	2.371	41.184
1.00	0.875	2.511	4.226	45.410
1.25	1.125	1.850	3.114	48.524
1.50	1.375	2.507	4.219	52.743
1.75	1.625	2.644	4.450	57.193
2.00	1.875	3.877	6.525	63.718
2.25	2.125	4.885	8.221	71.939
2.50	2.375	5.137	8.646	80.585
2.75	2.625	5.519	9.288	89.873
3.00	2.875	3.644	6.133	96.006
3.25	3.125	1.598	2.689	98.696
3.50	3.375	0.403	0.678	99.374
3.75	3.625	0.168	0.283	99.657
4.00	3.875	0.111	0.187	99.843
5.00	4.50	0.093	0.157	100.000

Statistical Results			
Mean:	0.8443	phi	(0.557 mm)
Standard Dev:	1.7591	phi-units	(0.2954 mm)
Skewness:	-0.4817	dimensionless	
Kurtosis:	1.9190	dimensionless	
5th Moment:	-1.8796	dimensionless	
6th Moment:	4.8918	dimensionless	
RARD *	2.0834	dimensionless	
Median	1.2125	phi	(0.4315 mm)

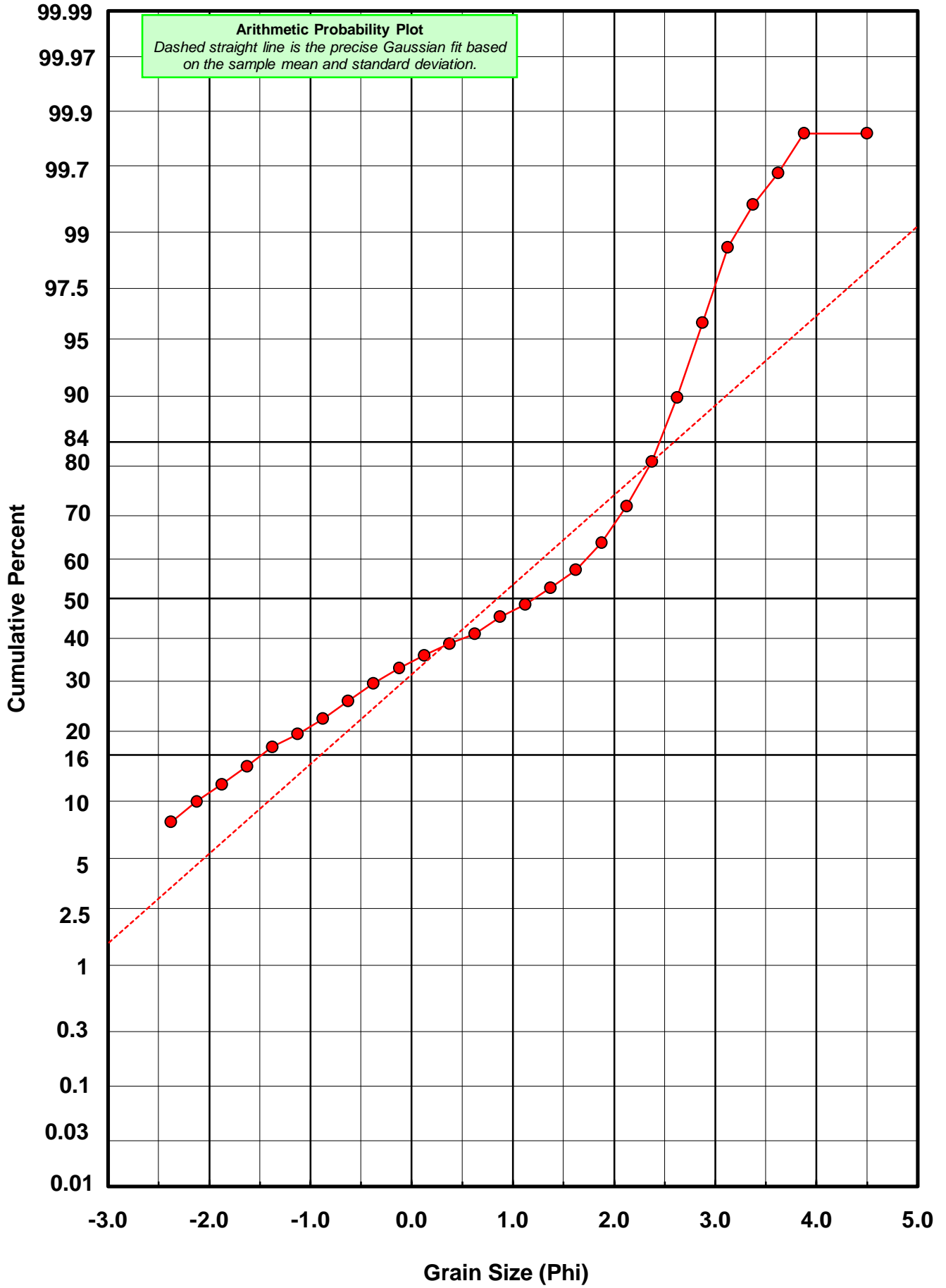
* RARD = reciprocal absolute relative dispersion (see below)

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)



PI-17-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PI-17-BB

Total Carbonate Mass: 30.239 grams

% Carbonate: 50.9 %

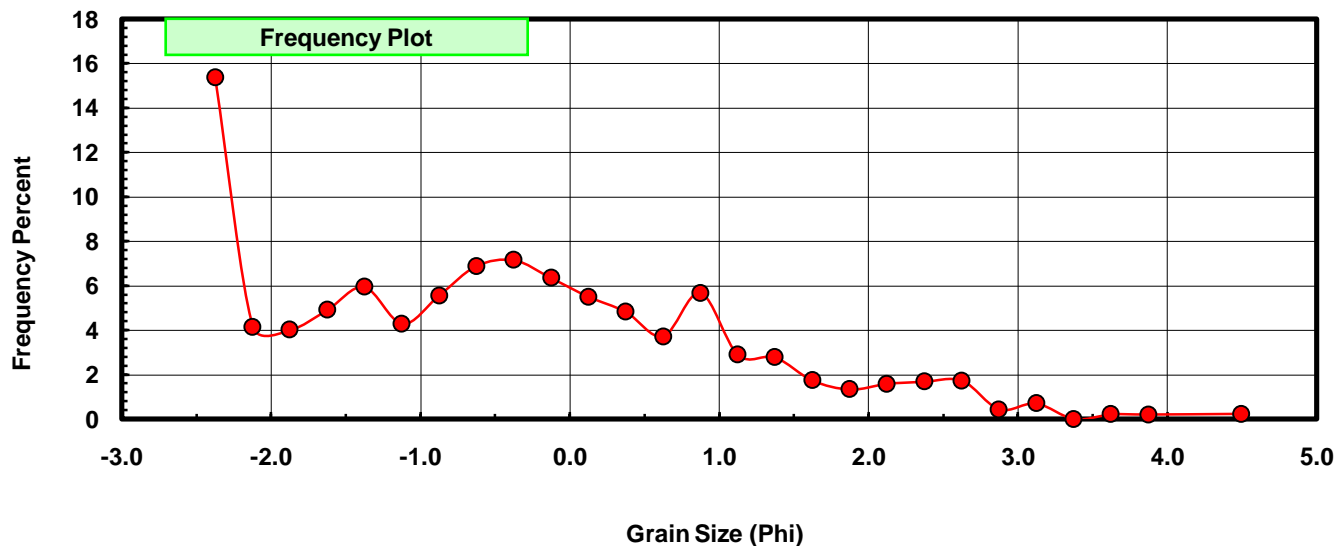
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	4.647	15.368	15.368
-2.00	-2.125	1.257	4.157	19.524
-1.75	-1.875	1.215	4.018	23.542
-1.50	-1.625	1.486	4.914	28.457
-1.25	-1.375	1.798	5.946	34.403
-1.00	-1.125	1.298	4.292	38.695
-0.75	-0.875	1.682	5.562	44.257
-0.50	-0.625	2.083	6.888	51.146
-0.25	-0.375	2.164	7.156	58.302
0.00	-0.125	1.921	6.353	64.655
0.25	0.125	1.665	5.506	70.161
0.50	0.375	1.460	4.828	74.989
0.75	0.625	1.127	3.727	78.716
1.00	0.875	1.717	5.678	84.394
1.25	1.125	0.876	2.897	87.291
1.50	1.375	0.844	2.791	90.082
1.75	1.625	0.530	1.753	91.835
2.00	1.875	0.406	1.343	93.178
2.25	2.125	0.479	1.584	94.762
2.50	2.375	0.511	1.690	96.452
2.75	2.625	0.523	1.730	98.181
3.00	2.875	0.134	0.443	98.624
3.25	3.125	0.215	0.711	99.335
3.50	3.375	0.000	0.000	99.335
3.75	3.625	0.069	0.228	99.563
4.00	3.875	0.062	0.205	99.769
5.00	4.500	0.070	0.231	100.000

Statistical Results			
Mean:	-0.4617	phi	(1.3771 mm)
Standard Dev:	1.4765	phi-units	(0.3594 mm)
Skewness:	0.5111	dimensionless	
Kurtosis:	2.6200	dimensionless	
5th Moment:	3.9089	dimensionless	
6th Moment:	12.2796	dimensionless	
RARD *	3.1982	dimensionless	
Median	-0.6666	phi	(1.5873 mm)

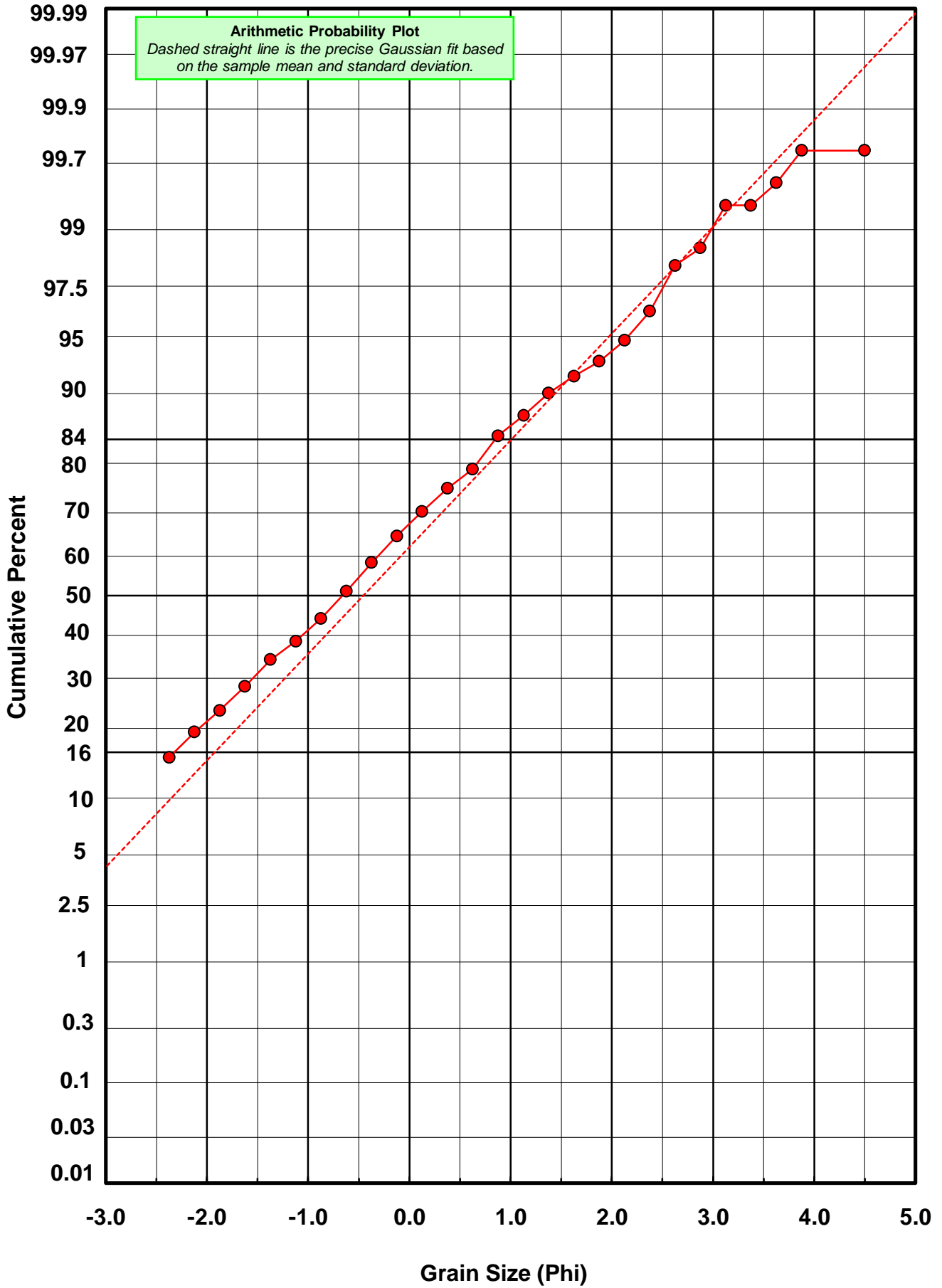
* RARD = reciprocal absolute relative dispersion (see below)

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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PI-17-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-17-BB

Total Digested Mass: 29.195 grams

% Silica: 49.1 %

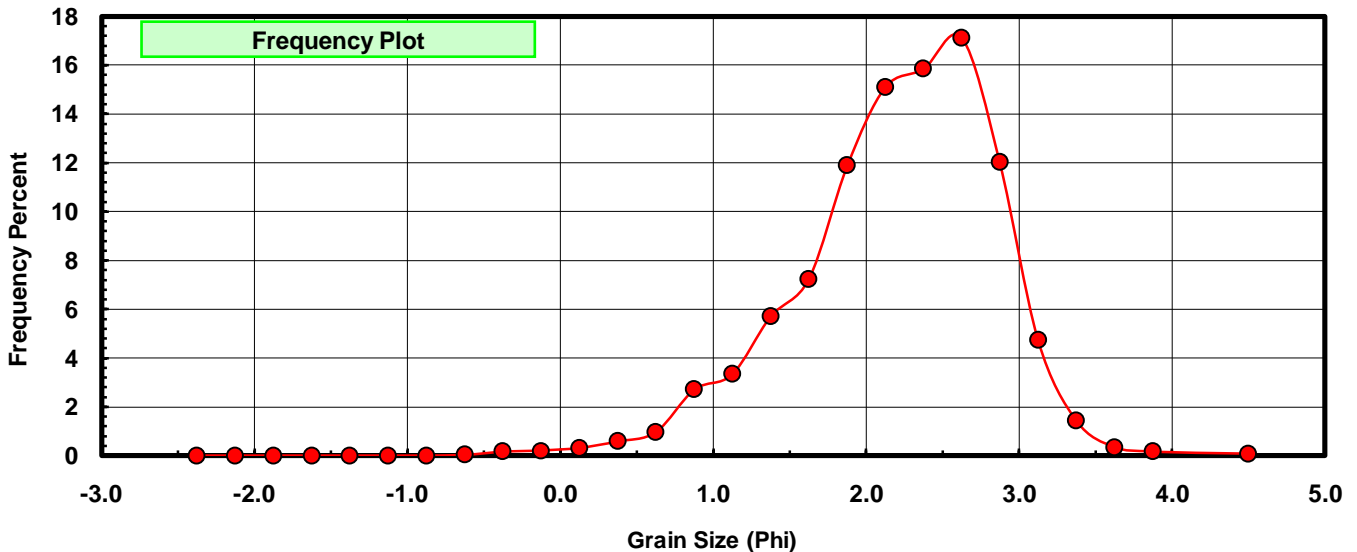
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.011	0.038	0.038
-0.25	-0.375	0.048	0.164	0.202
0.00	-0.125	0.063	0.216	0.418
0.25	0.125	0.092	0.315	0.733
0.50	0.375	0.172	0.589	1.322
0.75	0.625	0.282	0.966	2.288
1.00	0.875	0.794	2.720	5.008
1.25	1.125	0.974	3.336	8.344
1.50	1.375	1.663	5.696	14.040
1.75	1.625	2.114	7.241	21.281
2.00	1.875	3.471	11.889	33.170
2.25	2.125	4.406	15.092	48.262
2.50	2.375	4.626	15.845	64.107
2.75	2.625	4.996	17.113	81.219
3.00	2.875	3.510	12.023	93.242
3.25	3.125	1.383	4.737	97.979
3.50	3.375	0.419	1.435	99.414
3.75	3.625	0.099	0.339	99.753
4.00	3.875	0.049	0.168	99.921
5.00	4.500	0.023	0.079	100.000

Statistical Results			
Mean:	2.1984	phi	(0.2179 mm)
Standard Dev:	0.6530	phi-units	(0.636 mm)
Skewness:	-0.6659	dimensionless	
Kurtosis:	3.6872	dimensionless	
5th Moment:	-6.4461	dimensionless	
6th Moment:	28.0849	dimensionless	
RARD *	0.2970	dimensionless	
Median	2.1524	phi	(0.2249 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	
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For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{-(\phi)}$	

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