

Onshore Grab Sample

Sample: PI-15-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/7/09
Splits? N/A

County: Pinellas
Latitude: 27° 58' 28.2"
Longitude: 82° 49' 47.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 58.474 grams
Total Fines in Sample 0.015 grams
Total Percent Fines 0.03 %

Dry Sieving Summary

Total Sample Weight 58.399 grams
Total Digested Weight 53.453 grams
Total Carbonate Weight 4.946 grams
Total Silica % 91.53 %
Total Carbonate % 8.47 %
Carbonate/Silica Ratio 0.093

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-15-BB

Total Sample Mass: 58.399 grams

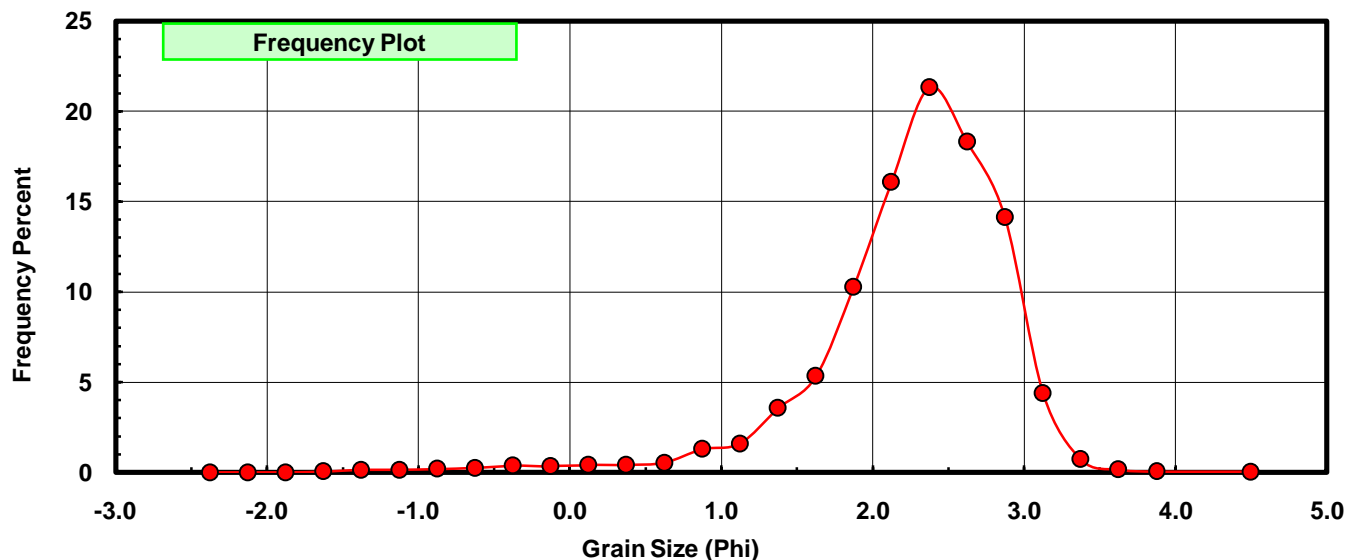
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.029	0.050	0.050
-1.25	-1.375	0.080	0.137	0.187
-1.00	-1.125	0.080	0.137	0.324
-0.75	-0.875	0.109	0.187	0.510
-0.50	-0.625	0.144	0.247	0.757
-0.25	-0.375	0.212	0.363	1.120
0.00	-0.125	0.199	0.341	1.461
0.25	0.125	0.239	0.409	1.870
0.50	0.375	0.242	0.414	2.284
0.75	0.625	0.310	0.531	2.815
1.00	0.875	0.748	1.281	4.096
1.25	1.125	0.928	1.589	5.685
1.50	1.375	2.078	3.558	9.243
1.75	1.625	3.111	5.327	14.570
2.00	1.875	6.001	10.276	24.846
2.25	2.125	9.390	16.079	40.925
2.50	2.375	12.447	21.314	62.239
2.75	2.625	10.687	18.300	80.539
3.00	2.875	8.261	14.146	94.685
3.25	3.125	2.553	4.372	99.056
3.50	3.375	0.420	0.719	99.776
3.75	3.625	0.089	0.152	99.928
4.00	3.875	0.029	0.050	99.978
5.00	4.50	0.013	0.022	100.000

Statistical Results			
Mean:	2.2577	phi	(0.2091 mm)
Standard Dev:	0.6478	phi-units	(0.6382 mm)
Skewness:	-1.7902	dimensionless	
Kurtosis:	8.7763	dimensionless	
5th Moment:	-36.3245	dimensionless	
6th Moment:	176.4298	dimensionless	
RARD *	0.2869	dimensionless	
Median	2.2314	phi	(0.2129 mm)

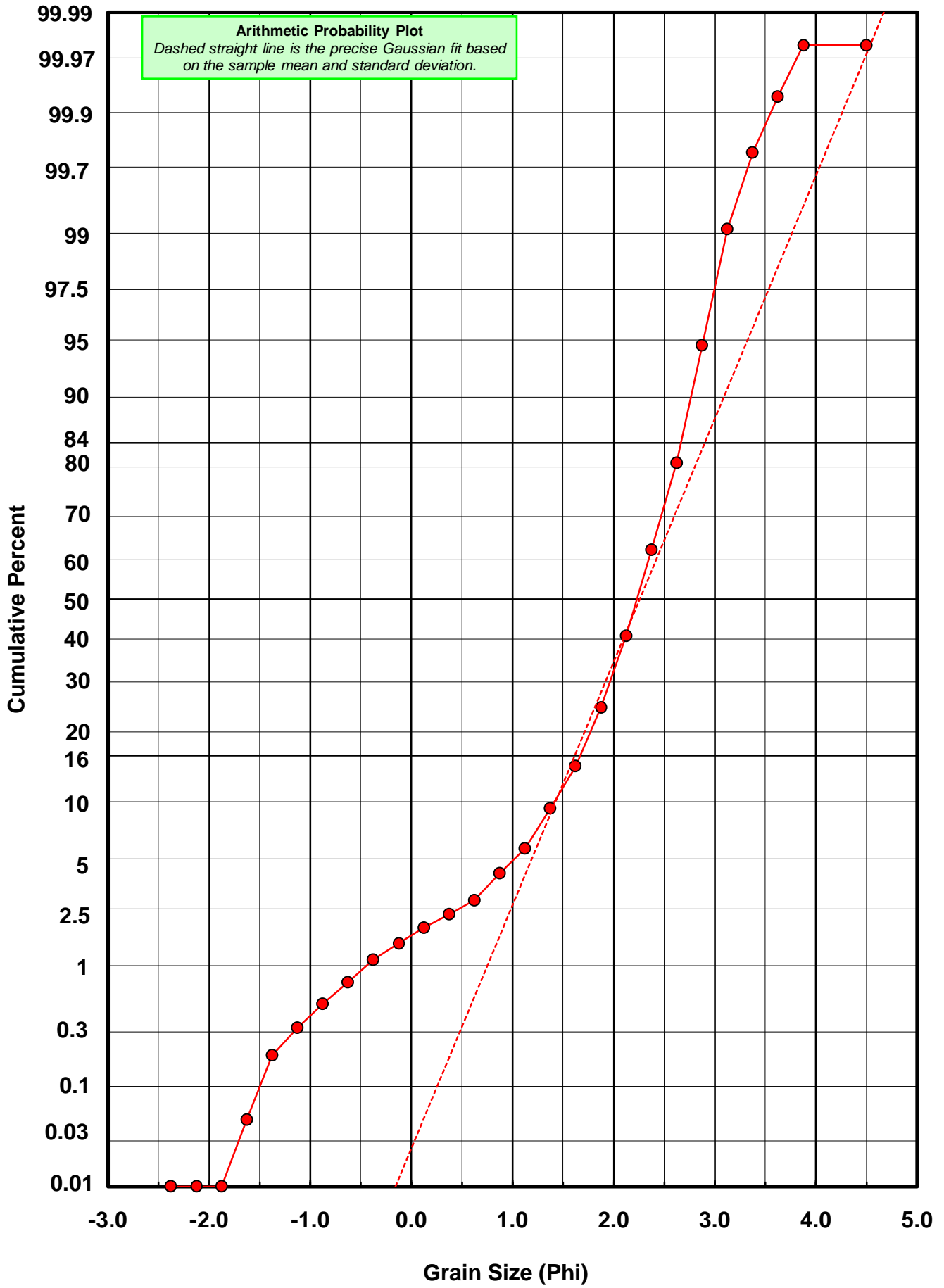
* RARD = reciprocal absolute relative dispersion (see below)

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-15-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PI-15-BB

Total Carbonate Mass: 5.455 grams

% Carbonate: 8.5 %

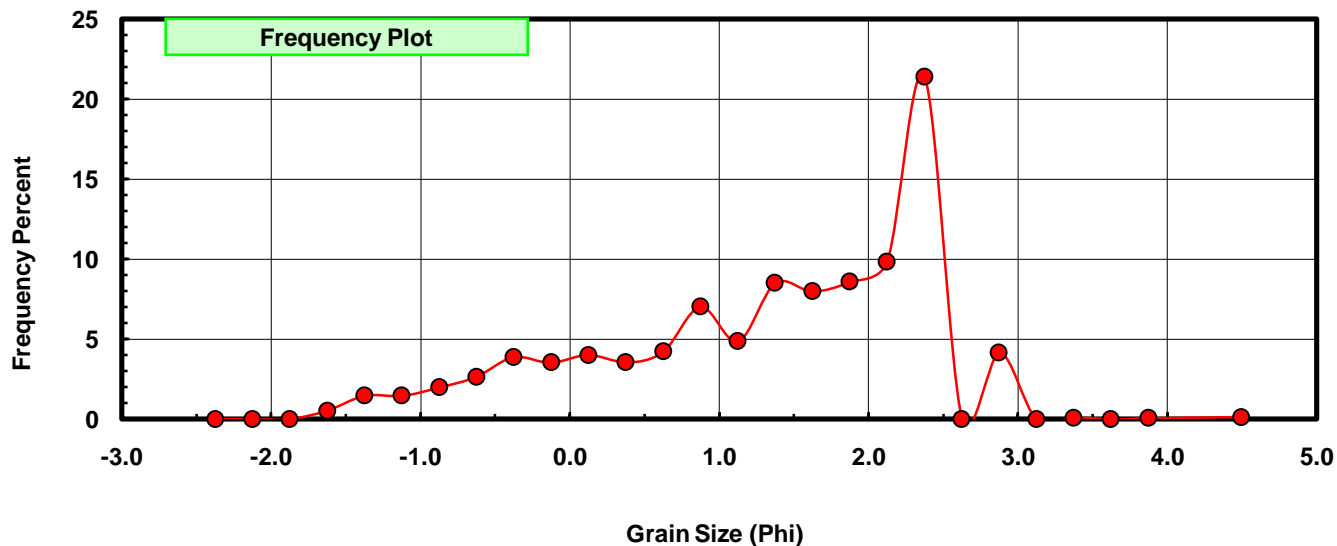
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.029	0.532	0.532
-1.25	-1.375	0.080	1.467	1.998
-1.00	-1.125	0.080	1.467	3.465
-0.75	-0.875	0.109	1.998	5.463
-0.50	-0.625	0.144	2.640	8.103
-0.25	-0.375	0.212	3.886	11.989
0.00	-0.125	0.193	3.538	15.527
0.25	0.125	0.219	4.015	19.542
0.50	0.375	0.194	3.556	23.098
0.75	0.625	0.231	4.235	27.333
1.00	0.875	0.383	7.021	34.354
1.25	1.125	0.265	4.858	39.212
1.50	1.375	0.464	8.506	47.718
1.75	1.625	0.436	7.993	55.710
2.00	1.875	0.468	8.579	64.290
2.25	2.125	0.537	9.844	74.134
2.50	2.375	1.168	21.412	95.545
2.75	2.625	0.000	0.000	95.545
3.00	2.875	0.227	4.161	99.707
3.25	3.125	0.000	0.000	99.707
3.50	3.375	0.005	0.092	99.798
3.75	3.625	0.000	0.000	99.798
4.00	3.875	0.004	0.073	99.872
5.00	4.500	0.007	0.128	100.000

Statistical Results			
Mean:	1.3194	phi	(0.4007 mm)
Standard Dev:	1.0981	phi-units	(0.4671 mm)
Skewness:	-0.6935	dimensionless	
Kurtosis:	2.6637	dimensionless	
5th Moment:	-3.7319	dimensionless	
6th Moment:	11.2764	dimensionless	
RARD *	0.8323	dimensionless	
Median	1.4464	phi	(0.3669 mm)

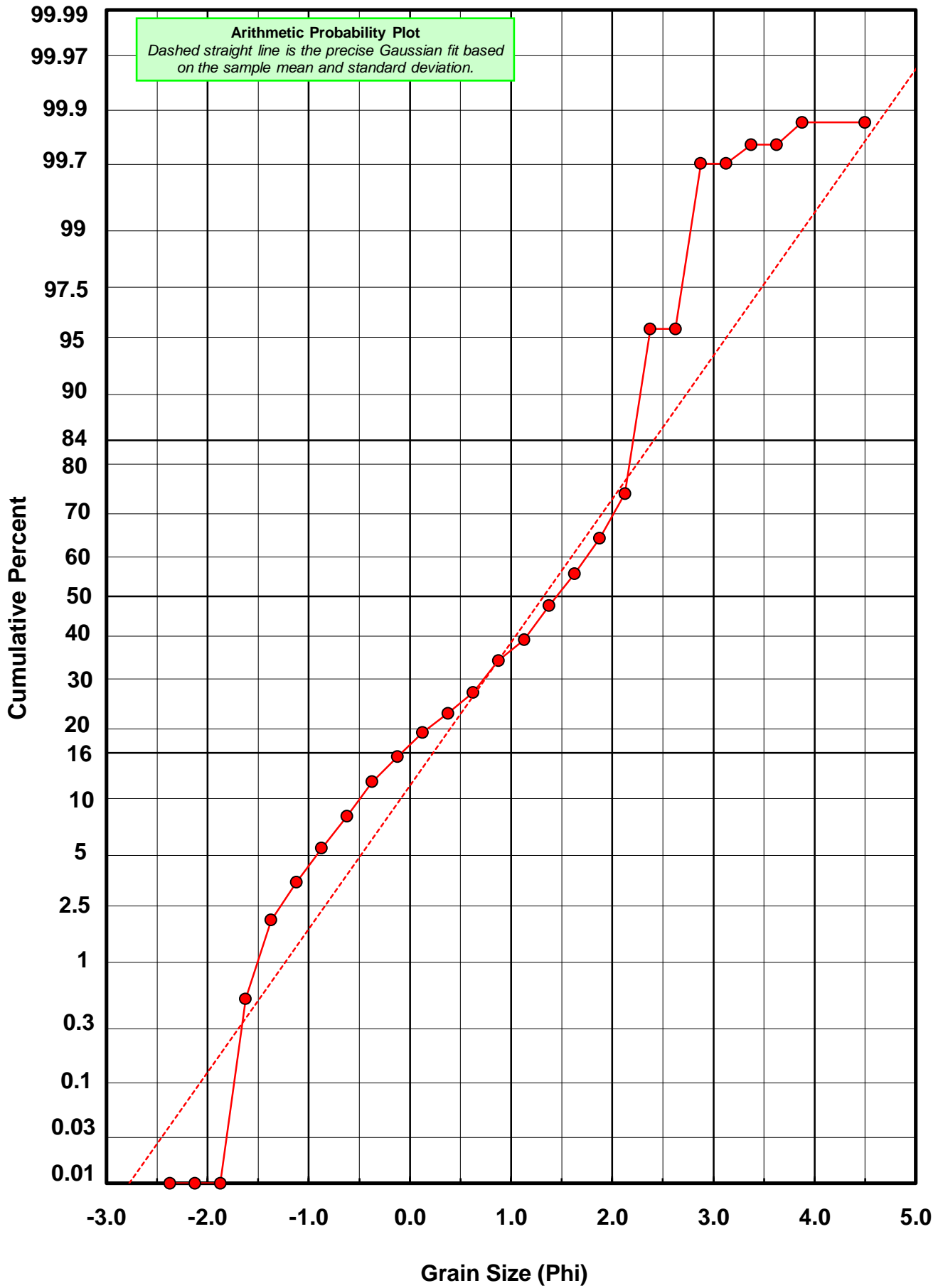
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Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
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PI-15-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-15-BB

Total Digested Mass: 53.453 grams

% Silica: 91.5 %

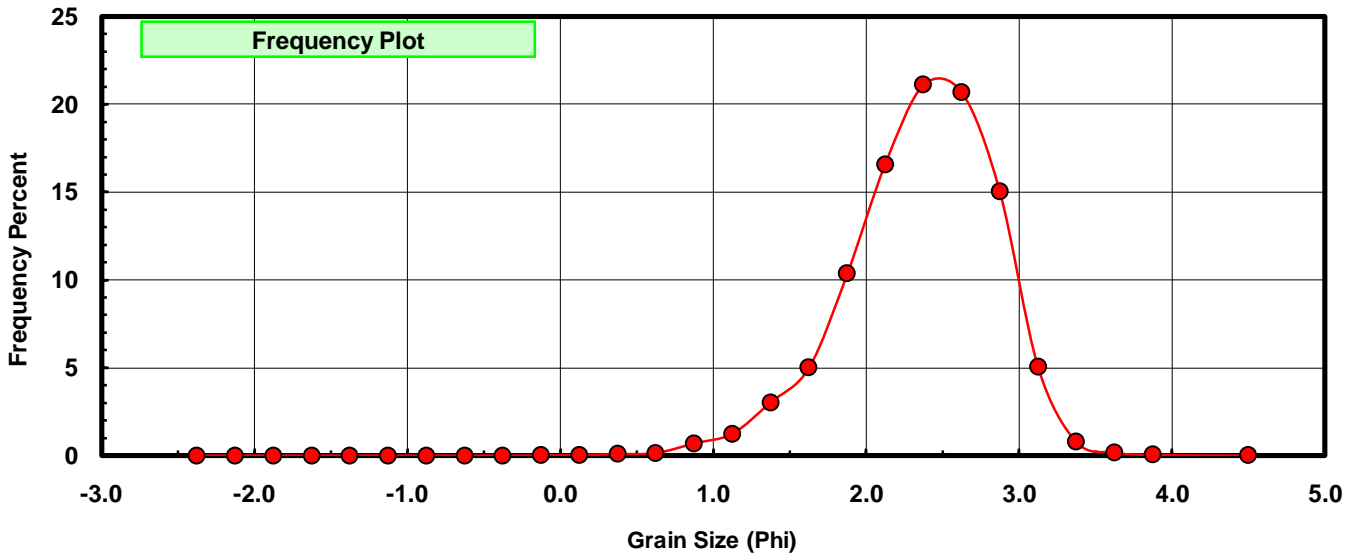
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-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.006	0.011	0.011
0.25	0.125	0.020	0.037	0.049
0.50	0.375	0.048	0.090	0.138
0.75	0.625	0.079	0.148	0.286
1.00	0.875	0.365	0.683	0.969
1.25	1.125	0.663	1.240	2.209
1.50	1.375	1.614	3.019	5.229
1.75	1.625	2.675	5.004	10.233
2.00	1.875	5.533	10.351	20.584
2.25	2.125	8.853	16.562	37.147
2.50	2.375	11.279	21.101	58.247
2.75	2.625	11.047	20.667	78.914
3.00	2.875	8.034	15.030	93.944
3.25	3.125	2.700	5.051	98.995
3.50	3.375	0.415	0.776	99.772
3.75	3.625	0.091	0.170	99.942
4.00	3.875	0.025	0.047	99.989
5.00	4.500	0.006	0.011	100.000

Statistical Results			
Mean:	2.3584	phi	(0.195 mm)
Standard Dev:	0.4848	phi-units	(0.7146 mm)
Skewness:	-0.5961	dimensionless	
Kurtosis:	3.6552	dimensionless	
5th Moment:	-6.3083	dimensionless	
6th Moment:	28.7001	dimensionless	
RARD *	0.2056	dimensionless	
Median	2.2773	phi	(0.2063 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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