

Onshore Grab Sample

Sample: PI-19-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/8/09
Splits? N/A

County: Pinellas
Latitude: 27° 56' 24.4"
Longitude: 82° 50' 21.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 56.579 grams
Total Fines in Sample 0.374 grams
Total Percent Fines 0.66 %

Dry Sieving Summary

Total Sample Weight 56.086 grams
Total Digested Weight 39.402 grams
Total Carbonate Weight 16.684 grams
Total Silica % 70.25 %
Total Carbonate % 29.75 %
Carbonate/Silica Ratio 0.423

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-19-BB

Total Sample Mass: 56.086 grams

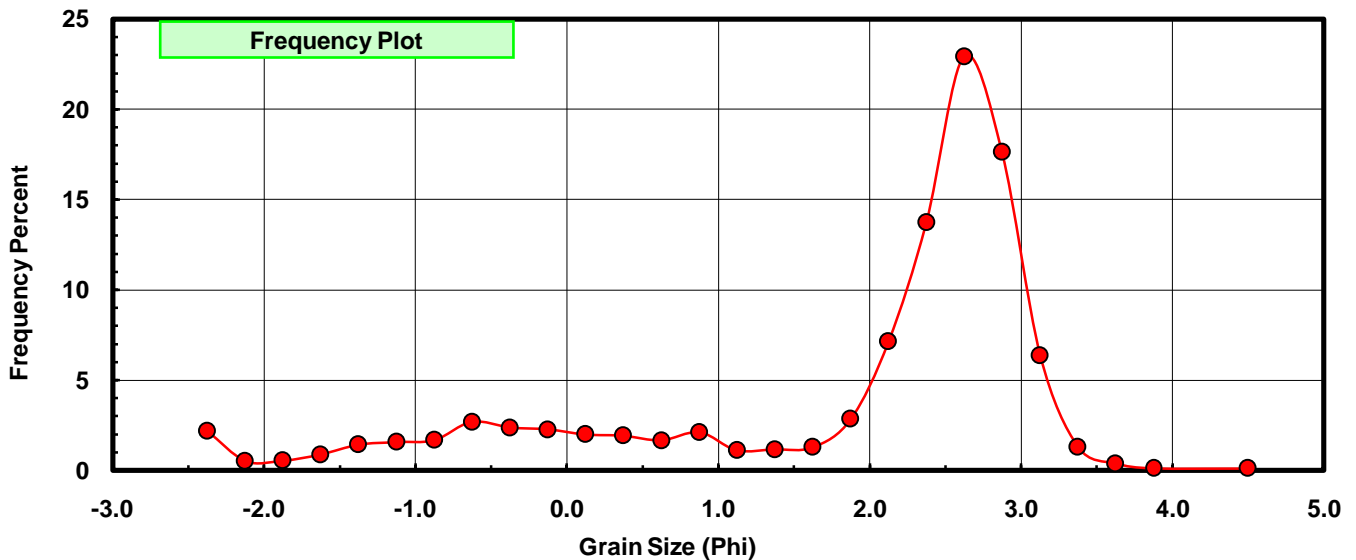
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	1.226	2.186	2.186
-2.00	-2.125	0.290	0.517	2.703
-1.75	-1.875	0.308	0.549	3.252
-1.50	-1.625	0.489	0.872	4.124
-1.25	-1.375	0.806	1.437	5.561
-1.00	-1.125	0.881	1.571	7.132
-0.75	-0.875	0.938	1.672	8.804
-0.50	-0.625	1.510	2.692	11.497
-0.25	-0.375	1.327	2.366	13.863
0.00	-0.125	1.267	2.259	16.122
0.25	0.125	1.117	1.992	18.113
0.50	0.375	1.084	1.933	20.046
0.75	0.625	0.935	1.667	21.713
1.00	0.875	1.187	2.116	23.829
1.25	1.125	0.624	1.113	24.942
1.50	1.375	0.656	1.170	26.112
1.75	1.625	0.721	1.286	27.397
2.00	1.875	1.594	2.842	30.239
2.25	2.125	4.002	7.135	37.375
2.50	2.375	7.705	13.738	51.113
2.75	2.625	12.865	22.938	74.051
3.00	2.875	9.902	17.655	91.706
3.25	3.125	3.577	6.378	98.083
3.50	3.375	0.729	1.300	99.383
3.75	3.625	0.213	0.380	99.763
4.00	3.875	0.070	0.125	99.888
5.00	4.50	0.063	0.112	100.000

Statistical Results			
Mean:	1.8279	phi	(0.2817 mm)
Standard Dev:	1.4681	phi-units	(0.3615 mm)
Skewness:	-1.3615	dimensionless	
Kurtosis:	3.6861	dimensionless	
5th Moment:	-8.4147	dimensionless	
6th Moment:	21.7219	dimensionless	
RARD *	0.8031	dimensionless	
Median	2.3548	phi	(0.1955 mm)

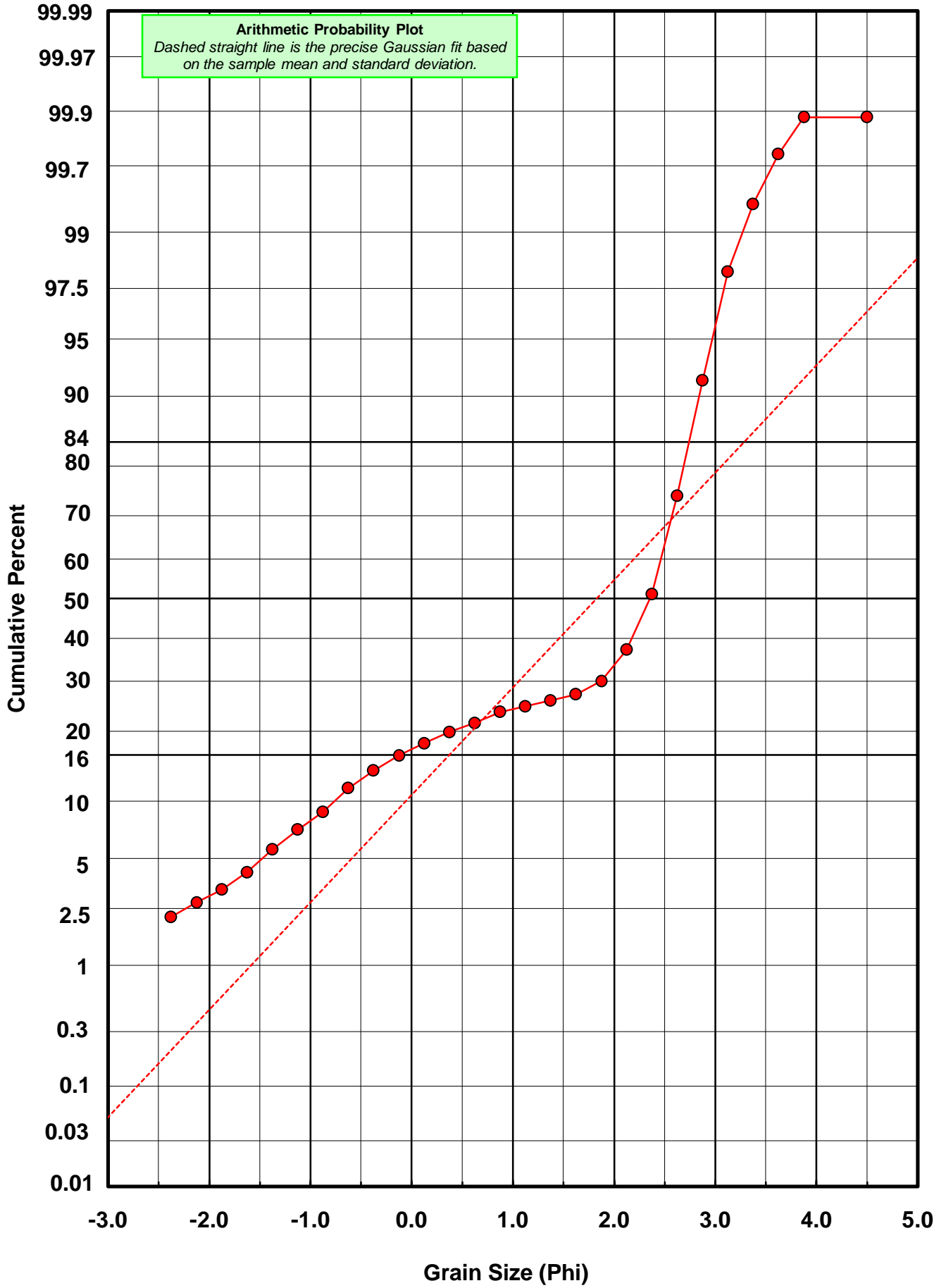
* RARD = reciprocal absolute relative dispersion (see below)

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-19-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PI-19-BB

Total Carbonate Mass: 16.823 grams

% Carbonate: 29.7 %

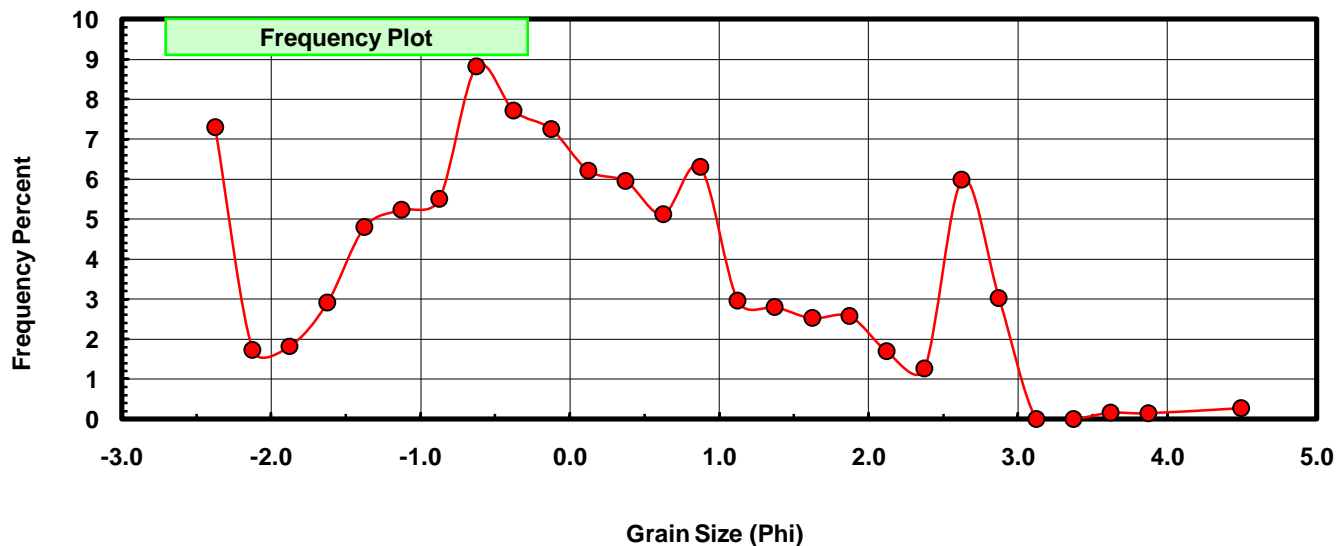
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	1.226	7.288	7.288
-2.00	-2.125	0.290	1.724	9.011
-1.75	-1.875	0.308	1.831	10.842
-1.50	-1.625	0.489	2.907	13.749
-1.25	-1.375	0.806	4.791	18.540
-1.00	-1.125	0.881	5.237	23.777
-0.75	-0.875	0.925	5.498	29.275
-0.50	-0.625	1.482	8.809	38.085
-0.25	-0.375	1.296	7.704	45.789
0.00	-0.125	1.219	7.246	53.035
0.25	0.125	1.045	6.212	59.246
0.50	0.375	1.000	5.944	65.191
0.75	0.625	0.862	5.124	70.314
1.00	0.875	1.059	6.295	76.609
1.25	1.125	0.497	2.954	79.564
1.50	1.375	0.472	2.806	82.369
1.75	1.625	0.425	2.526	84.896
2.00	1.875	0.432	2.568	87.464
2.25	2.125	0.284	1.688	89.152
2.50	2.375	0.212	1.260	90.412
2.75	2.625	1.006	5.980	96.392
3.00	2.875	0.508	3.020	99.412
3.25	3.125	0.000	0.000	99.412
3.50	3.375	0.000	0.000	99.412
3.75	3.625	0.028	0.166	99.578
4.00	3.875	0.025	0.149	99.727
5.00	4.500	0.046	0.273	100.000

Statistical Results			
Mean:	0.0547	phi	(0.9628 mm)
Standard Dev:	1.4963	phi-units	(0.3545 mm)
Skewness:	0.3177	dimensionless	
Kurtosis:	2.3803	dimensionless	
5th Moment:	1.8551	dimensionless	
6th Moment:	8.0960	dimensionless	
RARD *	27.3651	dimensionless	
Median	-0.2297	phi	(1.1726 mm)

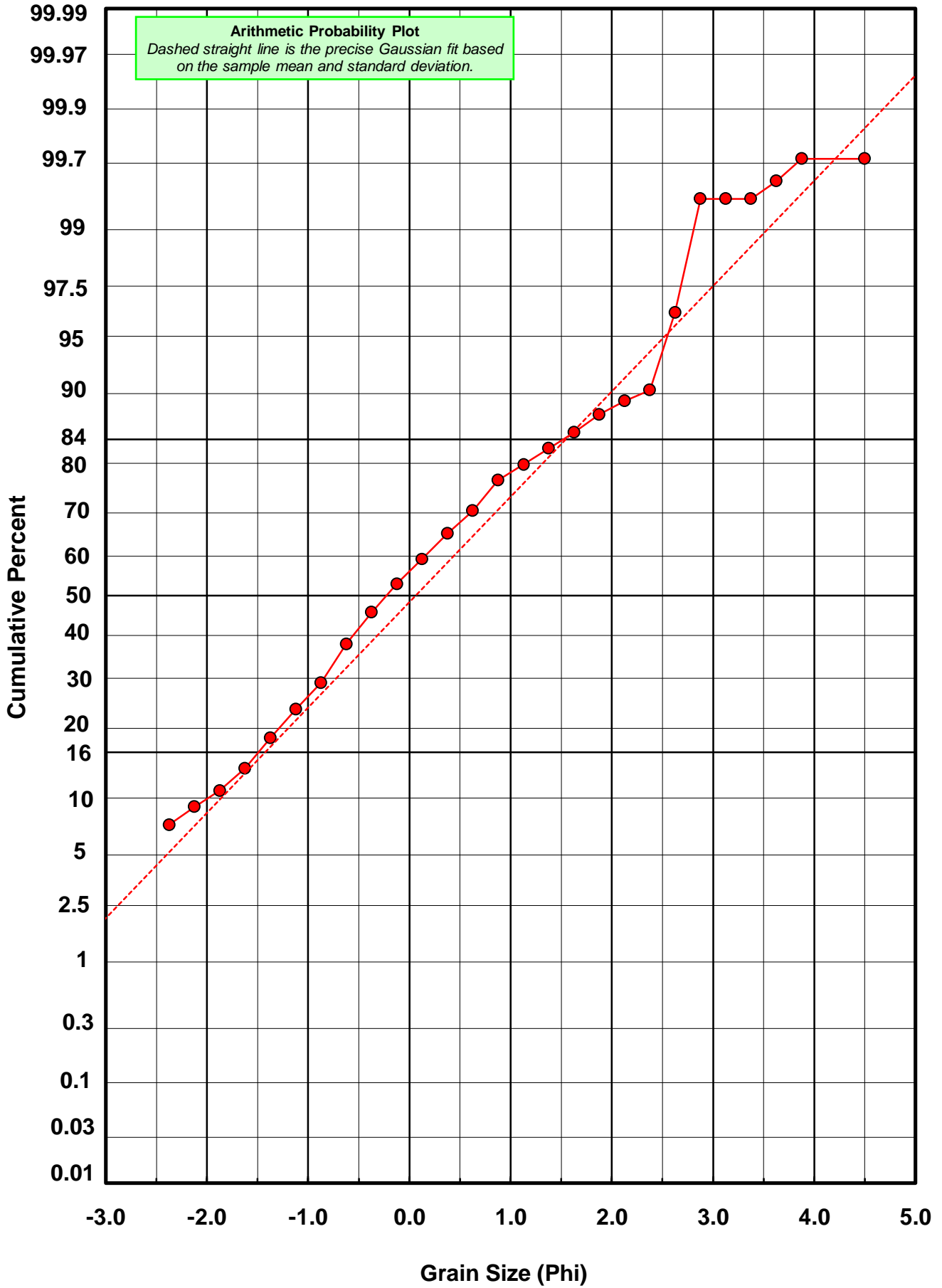
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Statistical Explanation	
Calculations based on the Method of Moments	
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0	
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{-(\phi)}$	

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PI-19-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-19-BB

Total Digested Mass: 39.402 grams

% Silica: 70.3 %

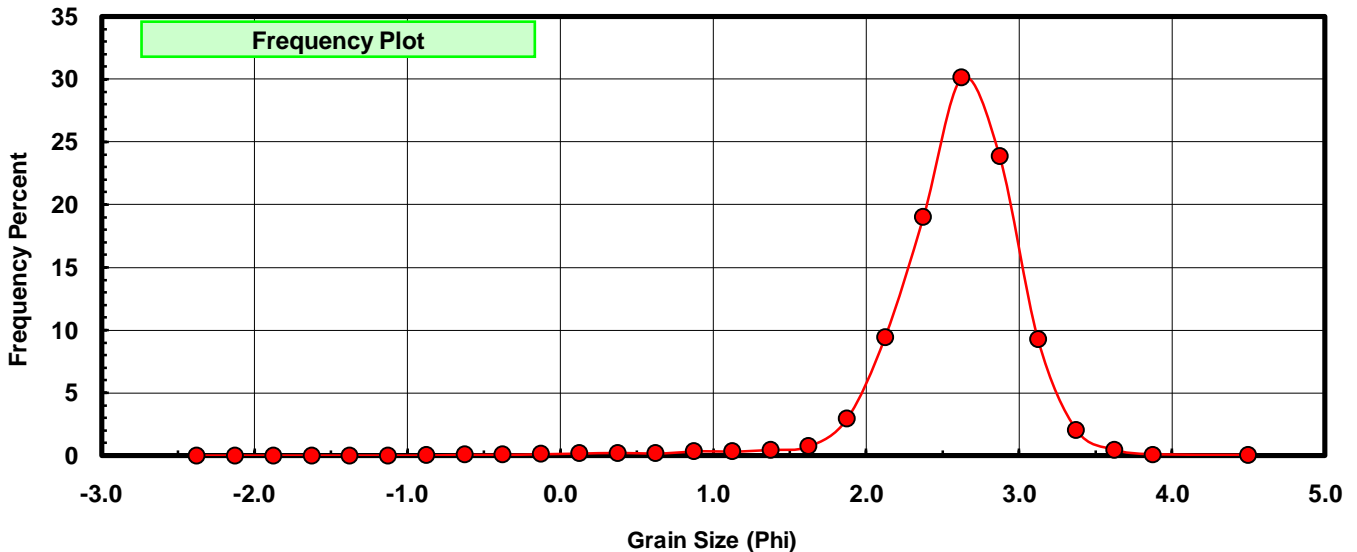
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.013	0.033	0.033
-0.50	-0.625	0.028	0.071	0.104
-0.25	-0.375	0.031	0.079	0.183
0.00	-0.125	0.048	0.122	0.305
0.25	0.125	0.072	0.183	0.487
0.50	0.375	0.084	0.213	0.700
0.75	0.625	0.073	0.185	0.886
1.00	0.875	0.128	0.325	1.211
1.25	1.125	0.127	0.322	1.533
1.50	1.375	0.184	0.467	2.000
1.75	1.625	0.296	0.751	2.751
2.00	1.875	1.162	2.949	5.700
2.25	2.125	3.718	9.436	15.136
2.50	2.375	7.493	19.017	34.153
2.75	2.625	11.859	30.097	64.251
3.00	2.875	9.394	23.841	88.092
3.25	3.125	3.646	9.253	97.345
3.50	3.375	0.799	2.028	99.373
3.75	3.625	0.185	0.470	99.843
4.00	3.875	0.045	0.114	99.957
5.00	4.500	0.017	0.043	100.000

Statistical Results			
Mean:	2.5901	phi	(0.1661 mm)
Standard Dev:	0.4504	phi-units	(0.7318 mm)
Skewness:	-1.9142	dimensionless	
Kurtosis:	12.4655	dimensionless	
5th Moment:	-64.6442	dimensionless	
6th Moment:	408.5629	dimensionless	
RARD *	0.1739	dimensionless	
Median	2.5066	phi	(0.176 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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