

Onshore Grab Sample

Sample: PI-18-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/8/09
Splits? N/A

County: Pinellas
Latitude: 27° 57' 6.6"
Longitude: 82° 49' 59.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 57.343 grams
Total Fines in Sample 0.094 grams
Total Percent Fines 0.16 %

Dry Sieving Summary

Total Sample Weight 57.393 grams
Total Digested Weight 41.778 grams
Total Carbonate Weight 15.615 grams
Total Silica % 72.79 %
Total Carbonate % 27.21 %
Carbonate/Silica Ratio 0.374

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-18-BB

Total Sample Mass: 57.393 grams

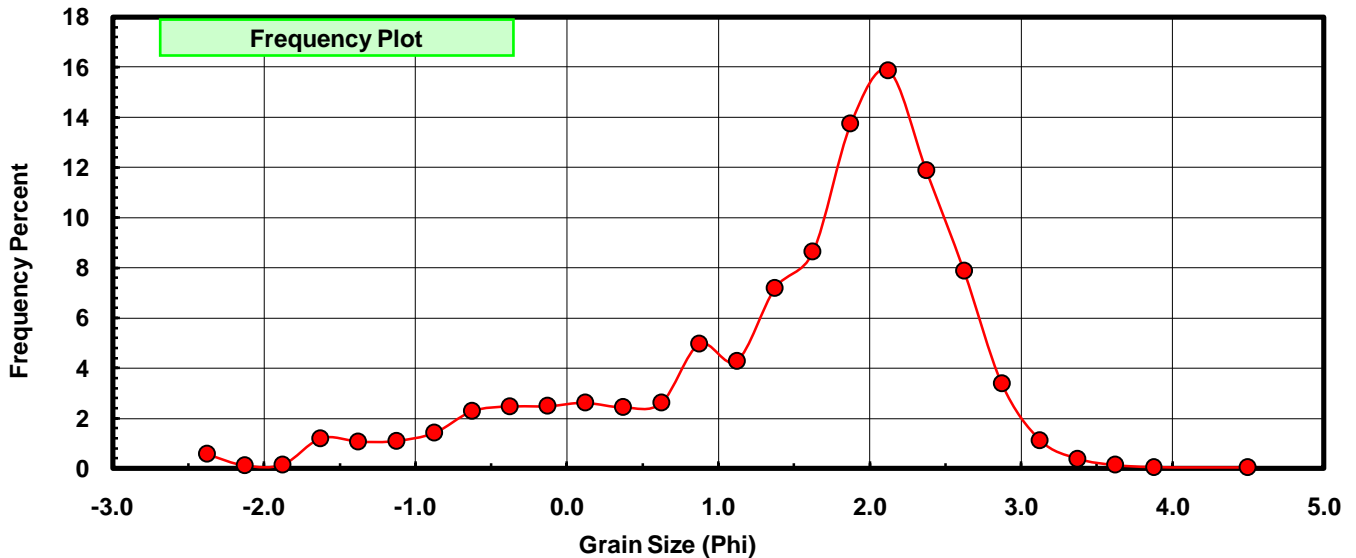
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.327	0.570	0.570
-2.00	-2.125	0.062	0.108	0.678
-1.75	-1.875	0.085	0.148	0.826
-1.50	-1.625	0.688	1.199	2.025
-1.25	-1.375	0.613	1.068	3.093
-1.00	-1.125	0.625	1.089	4.182
-0.75	-0.875	0.812	1.415	5.597
-0.50	-0.625	1.306	2.276	7.872
-0.25	-0.375	1.417	2.469	10.341
0.00	-0.125	1.428	2.488	12.829
0.25	0.125	1.501	2.615	15.444
0.50	0.375	1.397	2.434	17.878
0.75	0.625	1.499	2.612	20.490
1.00	0.875	2.850	4.966	25.456
1.25	1.125	2.458	4.283	29.739
1.50	1.375	4.130	7.196	36.935
1.75	1.625	4.953	8.630	45.565
2.00	1.875	7.884	13.737	59.302
2.25	2.125	9.105	15.864	75.166
2.50	2.375	6.815	11.874	87.040
2.75	2.625	4.518	7.872	94.912
3.00	2.875	1.939	3.378	98.291
3.25	3.125	0.639	1.113	99.404
3.50	3.375	0.218	0.380	99.784
3.75	3.625	0.076	0.132	99.916
4.00	3.875	0.027	0.047	99.963
5.00	4.50	0.021	0.037	100.000

Statistical Results			
Mean:	1.4919	phi	(0.3555 mm)
Standard Dev:	1.1281	phi-units	(0.4575 mm)
Skewness:	-1.1418	dimensionless	
Kurtosis:	3.8260	dimensionless	
5th Moment:	-8.5780	dimensionless	
6th Moment:	25.4910	dimensionless	
RARD *	0.7562	dimensionless	
Median	1.7057	phi	(0.3066 mm)

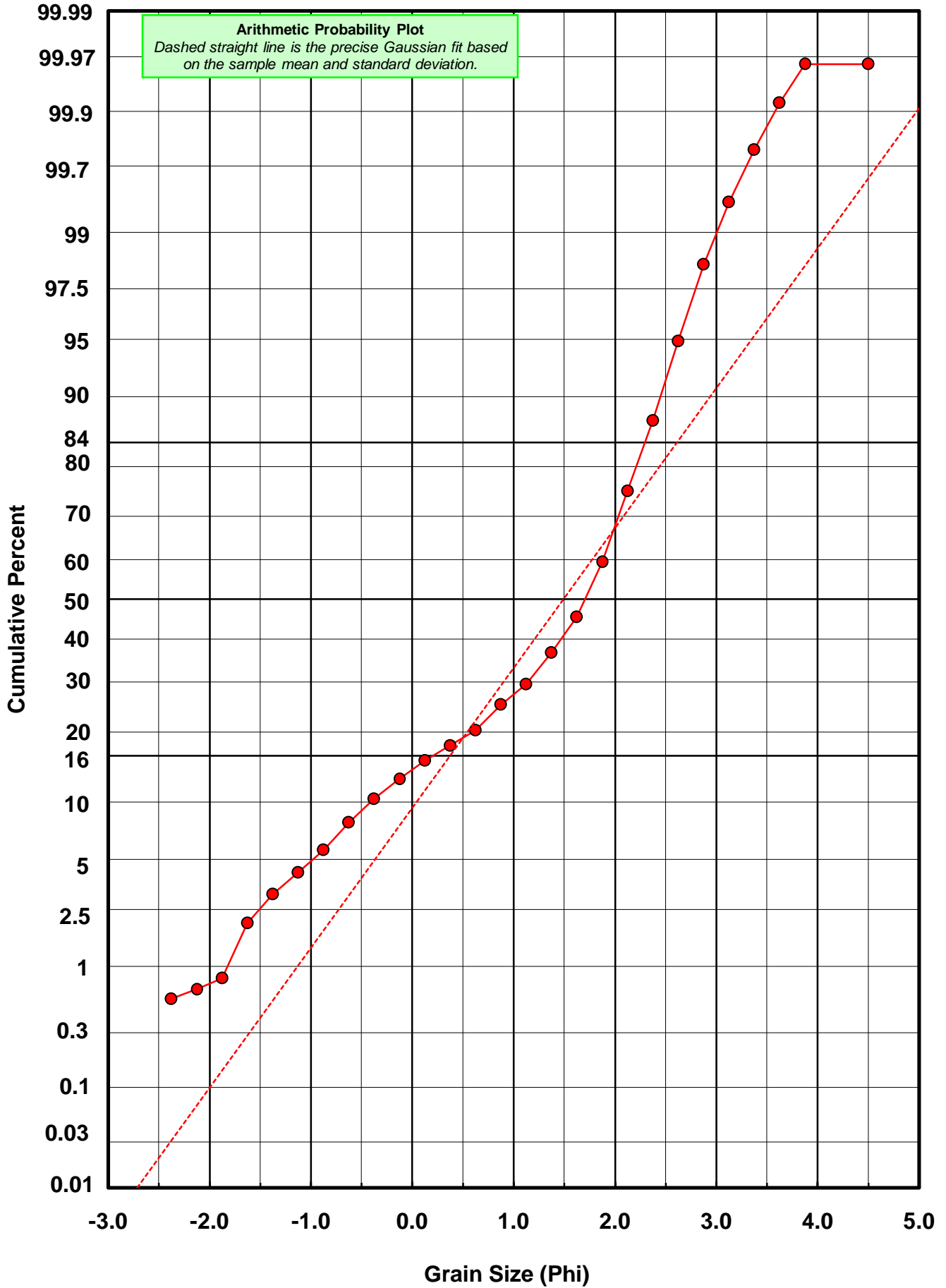
* RARD = reciprocal absolute relative dispersion (see below)

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-18-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PI-18-BB

Total Carbonate Mass: 15.828 grams

% Carbonate: 27.2 %

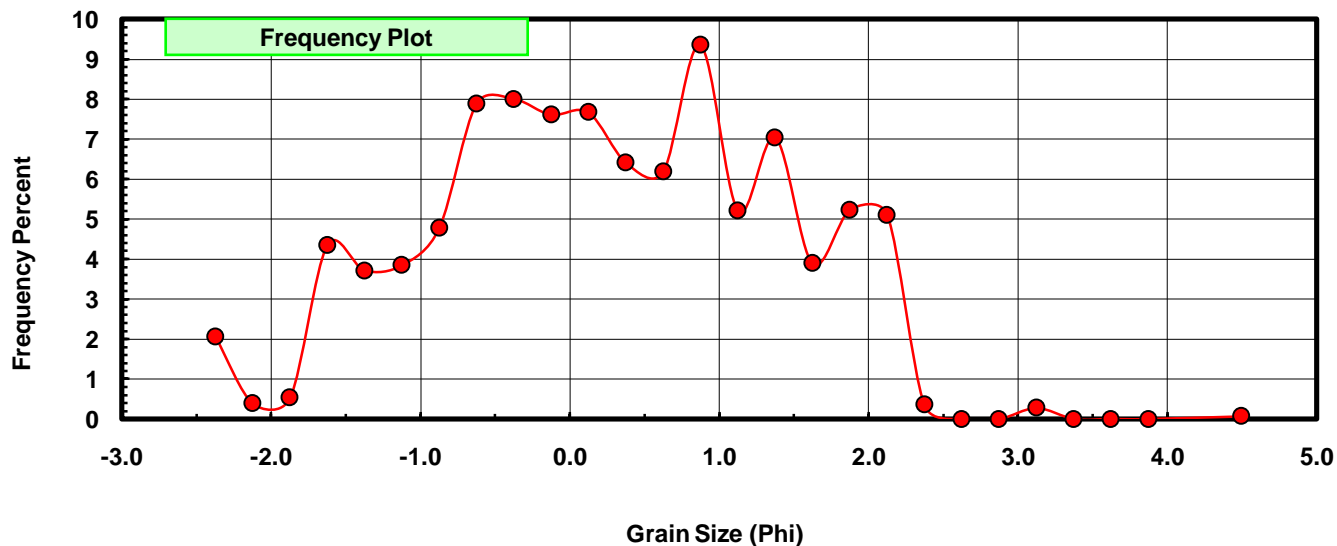
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.327	2.066	2.066
-2.00	-2.125	0.062	0.392	2.458
-1.75	-1.875	0.085	0.537	2.995
-1.50	-1.625	0.688	4.347	7.341
-1.25	-1.375	0.588	3.715	11.056
-1.00	-1.125	0.609	3.848	14.904
-0.75	-0.875	0.756	4.776	19.680
-0.50	-0.625	1.247	7.878	27.559
-0.25	-0.375	1.266	7.998	35.557
0.00	-0.125	1.204	7.607	43.164
0.25	0.125	1.214	7.670	50.834
0.50	0.375	1.015	6.413	57.247
0.75	0.625	0.979	6.185	63.432
1.00	0.875	1.481	9.357	72.789
1.25	1.125	0.825	5.212	78.001
1.50	1.375	1.114	7.038	85.039
1.75	1.625	0.617	3.898	88.937
2.00	1.875	0.829	5.238	94.175
2.25	2.125	0.808	5.105	99.280
2.50	2.375	0.057	0.360	99.640
2.75	2.625	0.000	0.000	99.640
3.00	2.875	0.000	0.000	99.640
3.25	3.125	0.045	0.284	99.924
3.50	3.375	0.000	0.000	99.924
3.75	3.625	0.000	0.000	99.924
4.00	3.875	0.000	0.000	99.924
5.00	4.500	0.012	0.076	100.000

Statistical Results			
Mean:	0.2375	phi	(0.8482 mm)
Standard Dev:	1.1763	phi-units	(0.4425 mm)
Skewness:	-0.0886	dimensionless	
Kurtosis:	2.2784	dimensionless	
5th Moment:	-0.3329	dimensionless	
6th Moment:	8.4158	dimensionless	
RARD *	4.9537	dimensionless	
Median	0.0978	phi	(0.9344 mm)

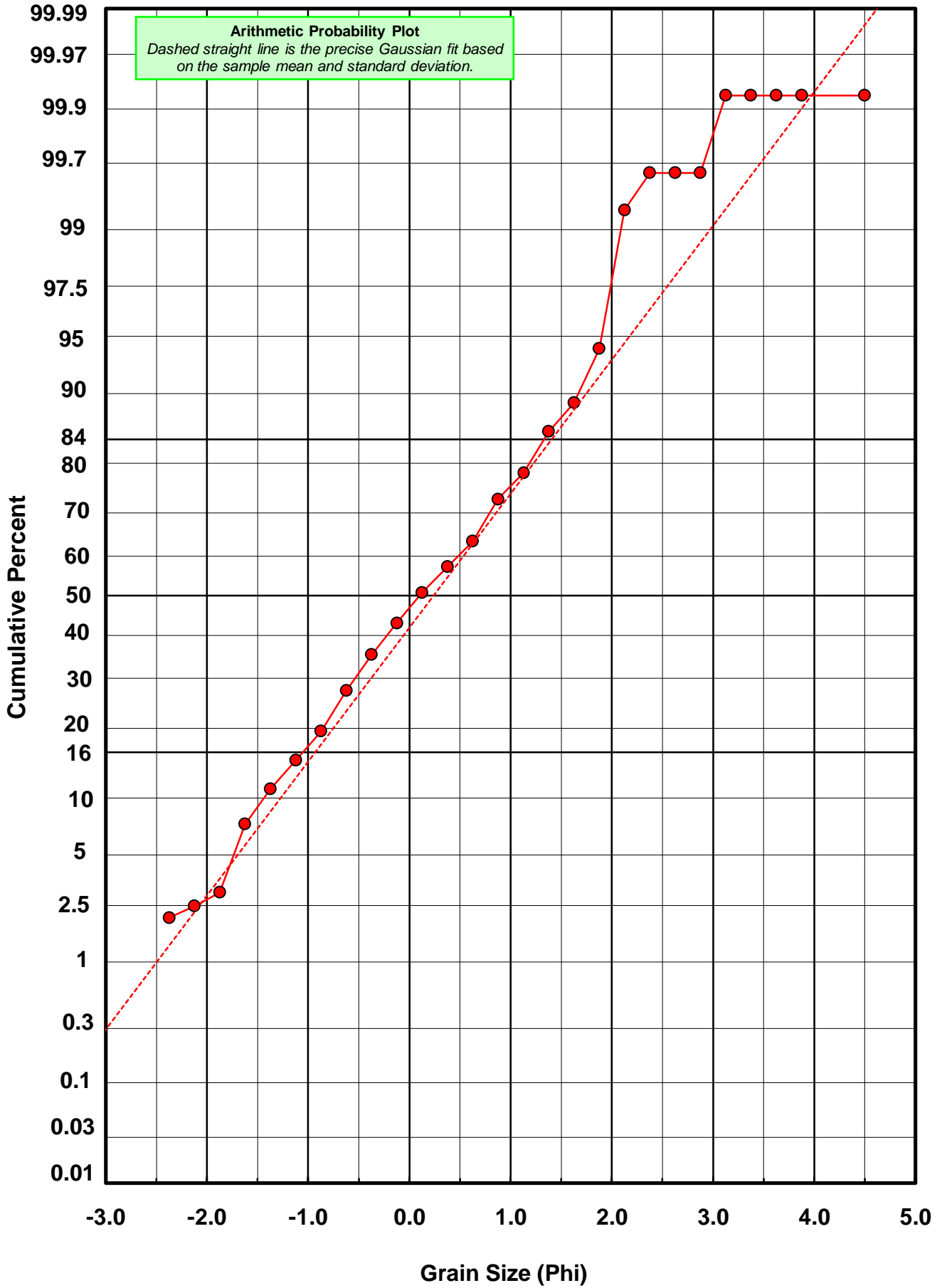
* RARD = reciprocal absolute relative dispersion (see below)

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-18-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-18-BB

Total Digested Mass: 41.778 grams

% Silica: 72.8 %

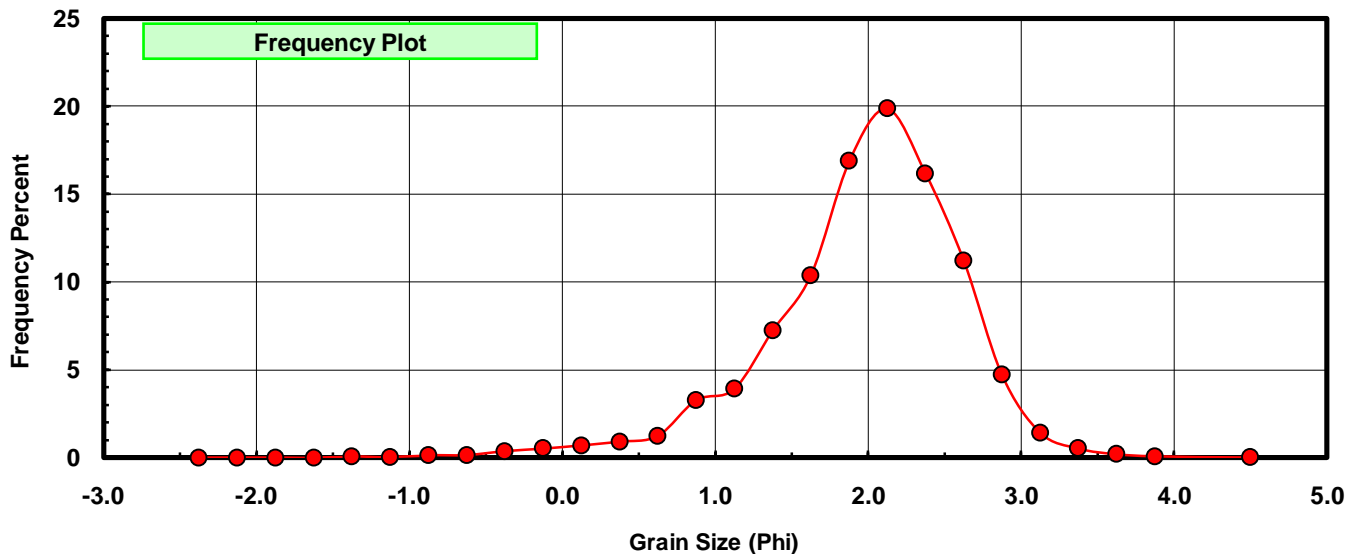
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.025	0.060	0.060
-1.00	-1.125	0.016	0.038	0.098
-0.75	-0.875	0.056	0.134	0.232
-0.50	-0.625	0.059	0.141	0.373
-0.25	-0.375	0.151	0.361	0.735
0.00	-0.125	0.224	0.536	1.271
0.25	0.125	0.287	0.687	1.958
0.50	0.375	0.382	0.914	2.872
0.75	0.625	0.520	1.245	4.117
1.00	0.875	1.369	3.277	7.394
1.25	1.125	1.633	3.909	11.303
1.50	1.375	3.016	7.219	18.522
1.75	1.625	4.336	10.379	28.900
2.00	1.875	7.055	16.887	45.787
2.25	2.125	8.297	19.860	65.647
2.50	2.375	6.758	16.176	81.823
2.75	2.625	4.677	11.195	93.018
3.00	2.875	1.979	4.737	97.755
3.25	3.125	0.594	1.422	99.177
3.50	3.375	0.220	0.527	99.703
3.75	3.625	0.085	0.203	99.907
4.00	3.875	0.030	0.072	99.978
5.00	4.500	0.009	0.022	100.000

Statistical Results			
Mean:	1.9735	phi	(0.2546 mm)
Standard Dev:	0.6457	phi-units	(0.6392 mm)
Skewness:	-0.9665	dimensionless	
Kurtosis:	5.1350	dimensionless	
5th Moment:	-13.3797	dimensionless	
6th Moment:	59.5586	dimensionless	
RARD *	0.3272	dimensionless	
Median	1.9280	phi	(0.2628 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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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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