

Onshore Grab Sample

Sample: PI-33-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/1/09
Splits? N/A

County: Pinellas
Latitude: 27° 46' 48.5"
Longitude: 82° 46' 58.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 57.186 grams
Total Fines in Sample 0.147 grams
Total Percent Fines 0.26 %

Dry Sieving Summary

Total Sample Weight 56.908 grams
Total Digested Weight 43.258 grams
Total Carbonate Weight 13.650 grams
Total Silica % 76.01 %
Total Carbonate % 23.99 %
Carbonate/Silica Ratio 0.316

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-33-BB

Total Sample Mass: 56.908 grams

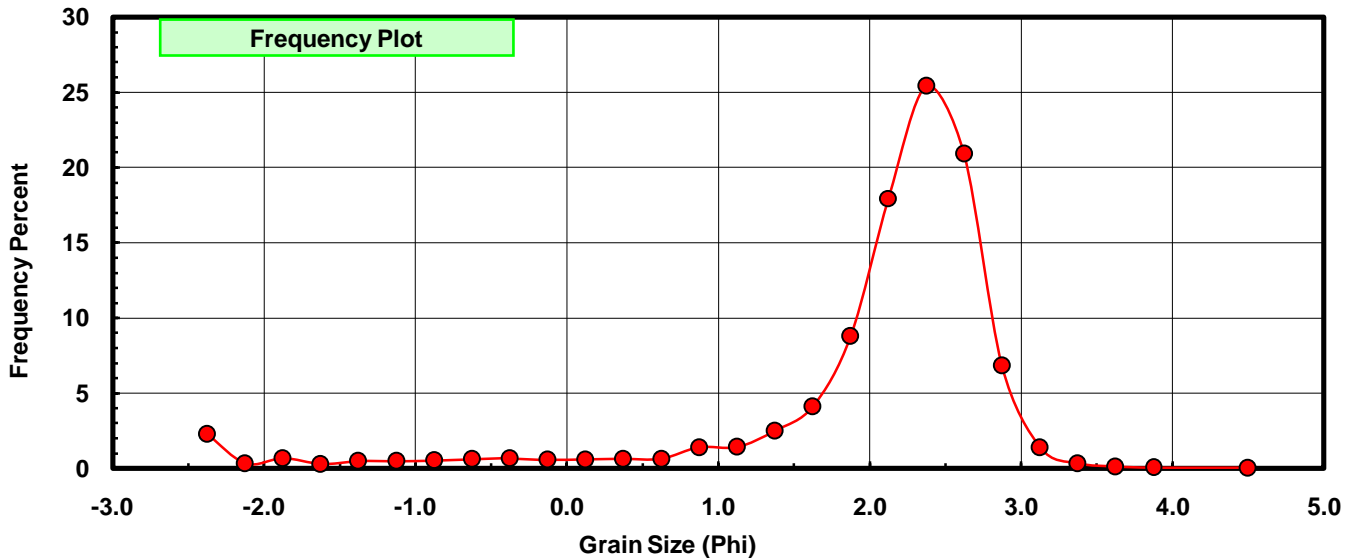
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	1.300	2.284	2.284
-2.00	-2.125	0.190	0.334	2.618
-1.75	-1.875	0.377	0.662	3.281
-1.50	-1.625	0.160	0.281	3.562
-1.25	-1.375	0.272	0.478	4.040
-1.00	-1.125	0.268	0.471	4.511
-0.75	-0.875	0.302	0.531	5.041
-0.50	-0.625	0.350	0.615	5.656
-0.25	-0.375	0.372	0.654	6.310
0.00	-0.125	0.320	0.562	6.872
0.25	0.125	0.331	0.582	7.454
0.50	0.375	0.354	0.622	8.076
0.75	0.625	0.360	0.633	8.709
1.00	0.875	0.798	1.402	10.111
1.25	1.125	0.812	1.427	11.538
1.50	1.375	1.426	2.506	14.044
1.75	1.625	2.348	4.126	18.170
2.00	1.875	5.010	8.804	26.973
2.25	2.125	10.219	17.957	44.930
2.50	2.375	14.460	25.409	70.340
2.75	2.625	11.899	20.909	91.249
3.00	2.875	3.893	6.841	98.090
3.25	3.125	0.792	1.392	99.482
3.50	3.375	0.188	0.330	99.812
3.75	3.625	0.066	0.116	99.928
4.00	3.875	0.026	0.046	99.974
5.00	4.50	0.015	0.026	100.000

Statistical Results			
Mean:	1.9925	phi	(0.2513 mm)
Standard Dev:	1.0944	phi-units	(0.4683 mm)
Skewness:	-2.5743	dimensionless	
Kurtosis:	9.6297	dimensionless	
5th Moment:	-34.8895	dimensionless	
6th Moment:	131.4238	dimensionless	
RARD *	0.5493	dimensionless	
Median	2.1749	phi	(0.2215 mm)

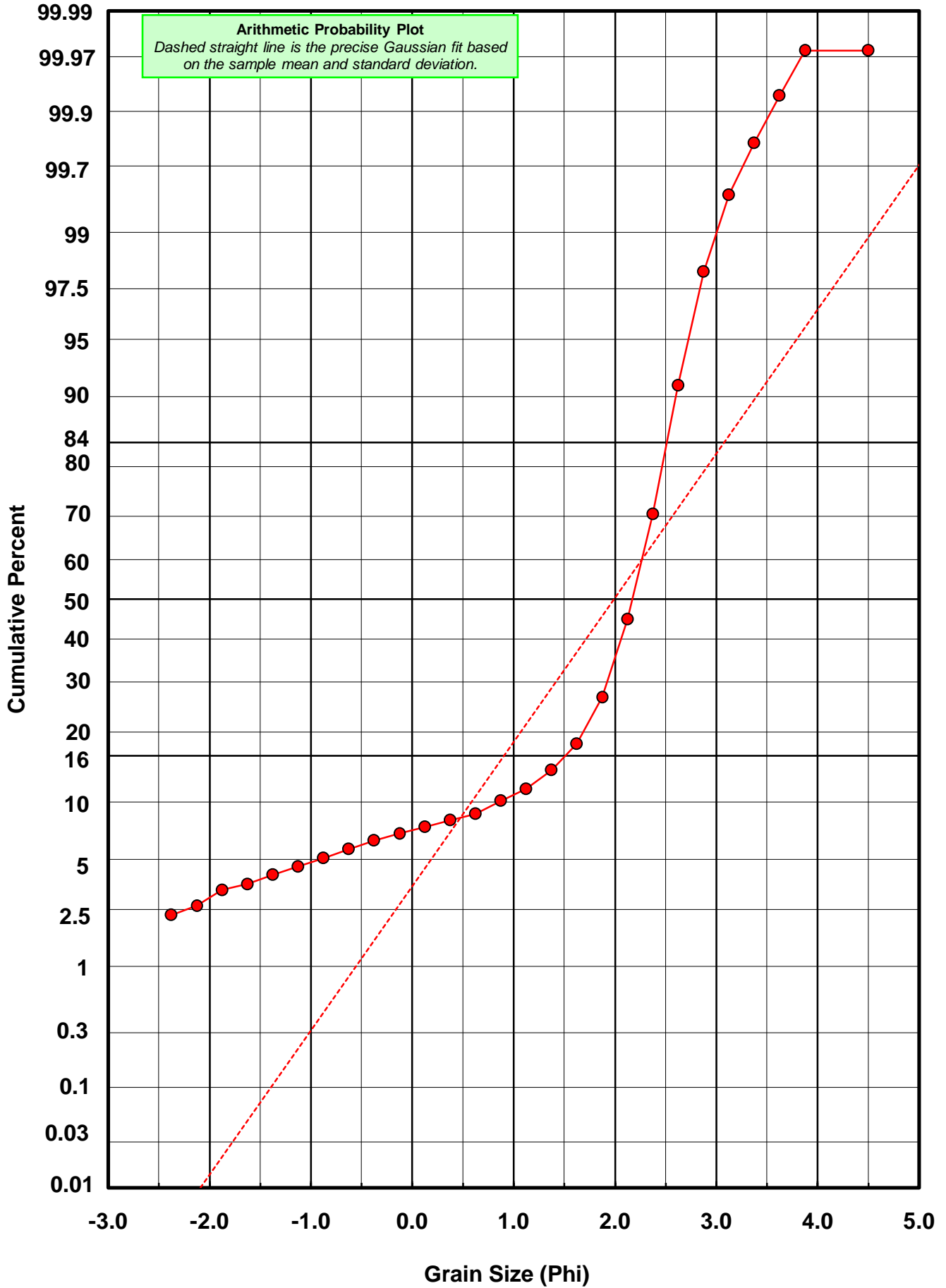
* RARD = reciprocal absolute relative dispersion (see below)

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-33-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PI-33-BB

Total Carbonate Mass: 13.653 grams

% Carbonate: 24.0 %

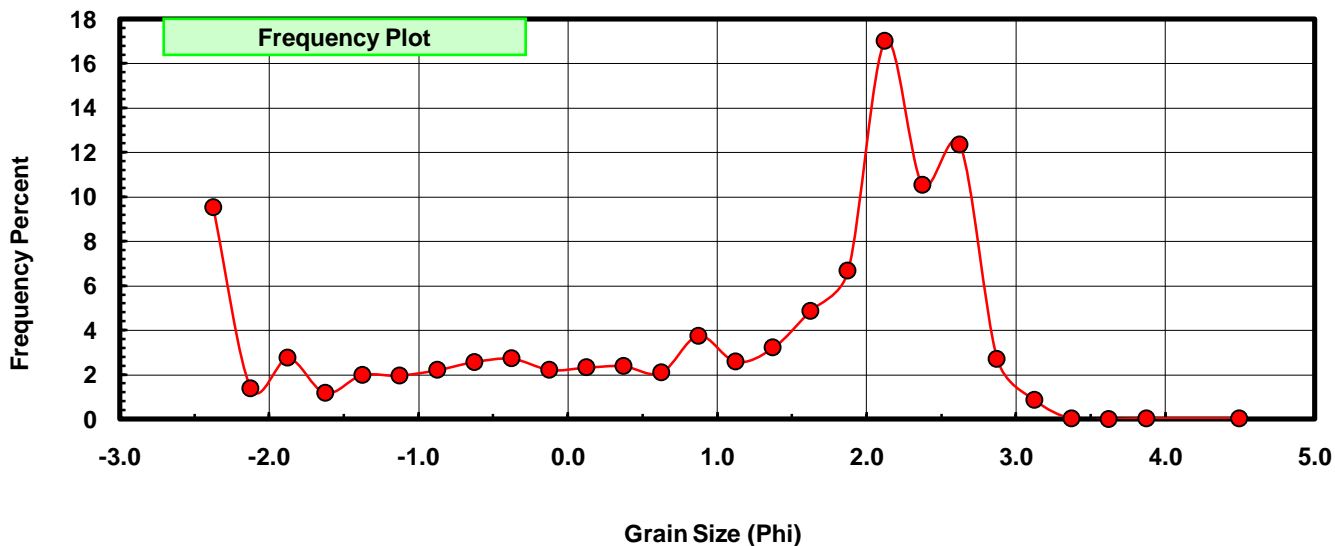
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	1.300	9.522	9.522
-2.00	-2.125	0.190	1.392	10.913
-1.75	-1.875	0.377	2.761	13.675
-1.50	-1.625	0.160	1.172	14.847
-1.25	-1.375	0.272	1.992	16.839
-1.00	-1.125	0.268	1.963	18.802
-0.75	-0.875	0.302	2.212	21.014
-0.50	-0.625	0.350	2.564	23.577
-0.25	-0.375	0.372	2.725	26.302
0.00	-0.125	0.303	2.219	28.521
0.25	0.125	0.318	2.329	30.850
0.50	0.375	0.326	2.388	33.238
0.75	0.625	0.286	2.095	35.333
1.00	0.875	0.512	3.750	39.083
1.25	1.125	0.353	2.586	41.668
1.50	1.375	0.439	3.215	44.884
1.75	1.625	0.665	4.871	49.755
2.00	1.875	0.910	6.665	56.420
2.25	2.125	2.322	17.007	73.427
2.50	2.375	1.440	10.547	83.974
2.75	2.625	1.686	12.349	96.323
3.00	2.875	0.371	2.717	99.041
3.25	3.125	0.119	0.872	99.912
3.50	3.375	0.003	0.022	99.934
3.75	3.625	0.000	0.000	99.934
4.00	3.875	0.004	0.029	99.963
5.00	4.500	0.005	0.037	100.000

Statistical Results			
Mean:	0.9558	phi	(0.5156 mm)
Standard Dev:	1.7820	phi-units	(0.2908 mm)
Skewness:	-0.7638	dimensionless	
Kurtosis:	2.0512	dimensionless	
5th Moment:	-2.8950	dimensionless	
6th Moment:	5.8297	dimensionless	
RARD *	1.8645	dimensionless	
Median	1.6342	phi	(0.3221 mm)

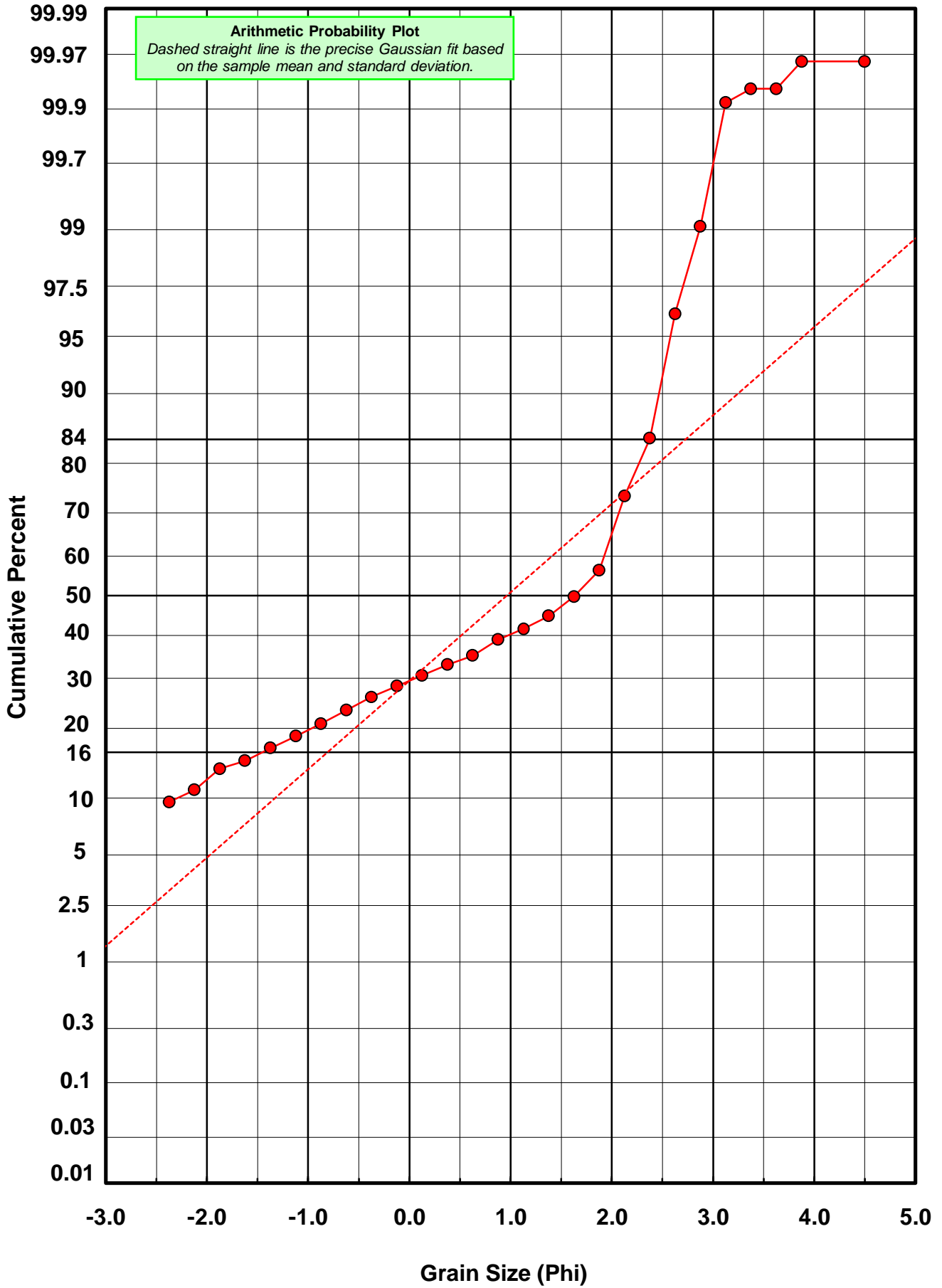
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Calculations based on the Method of Moments	
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Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{-(\phi)}$	

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PI-33-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-33-BB

Total Digested Mass: 43.258 grams

% Silica: 76.0 %

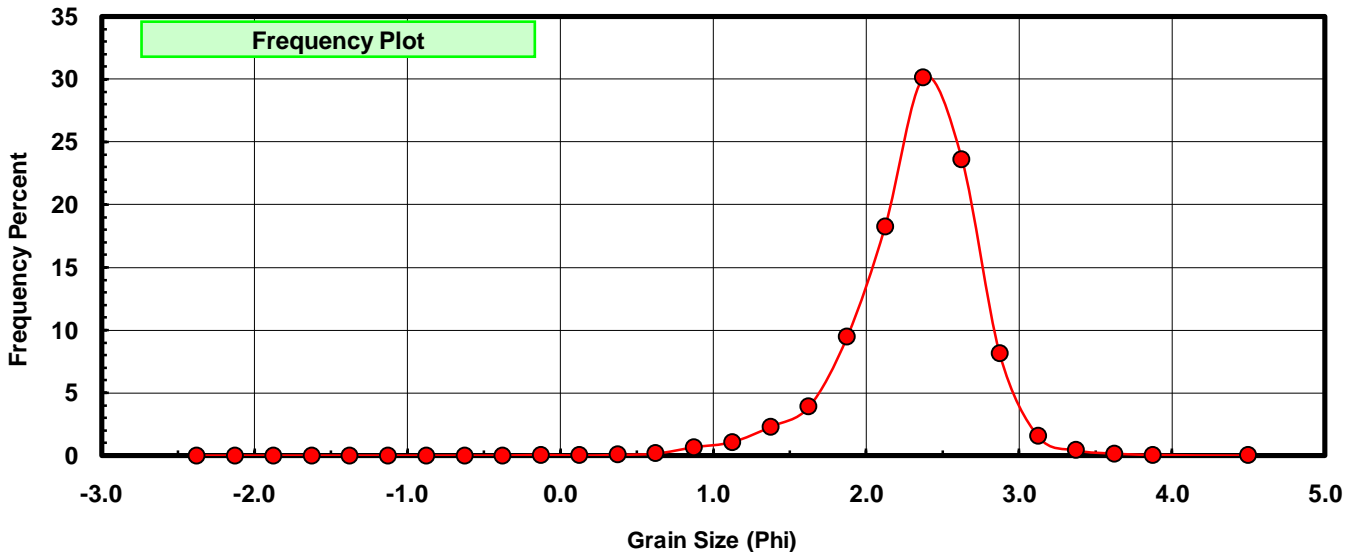
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.017	0.039	0.039
0.25	0.125	0.013	0.030	0.069
0.50	0.375	0.028	0.065	0.134
0.75	0.625	0.074	0.171	0.305
1.00	0.875	0.286	0.661	0.966
1.25	1.125	0.459	1.061	2.027
1.50	1.375	0.987	2.282	4.309
1.75	1.625	1.683	3.891	8.200
2.00	1.875	4.100	9.478	17.678
2.25	2.125	7.897	18.256	35.933
2.50	2.375	13.020	30.098	66.032
2.75	2.625	10.213	23.610	89.641
3.00	2.875	3.522	8.142	97.783
3.25	3.125	0.673	1.556	99.339
3.50	3.375	0.185	0.428	99.767
3.75	3.625	0.069	0.160	99.926
4.00	3.875	0.022	0.051	99.977
5.00	4.500	0.010	0.023	100.000

Statistical Results			
Mean:	2.3198	phi	(0.2003 mm)
Standard Dev:	0.4206	phi-units	(0.7471 mm)
Skewness:	-0.8297	dimensionless	
Kurtosis:	5.2483	dimensionless	
5th Moment:	-11.3771	dimensionless	
6th Moment:	66.1762	dimensionless	
RARD *	0.1813	dimensionless	
Median	2.2418	phi	(0.2114 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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