

Onshore Grab Sample

Sample: PI-44-BB
Sample Taken By: D. Phelps
Sample Collected On: 11/4/09
Splits? N/A

County: Pinellas
Latitude: 27° 39' 51.9"
Longitude: 82° 44' 40.5"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 70.094 grams
Total Fines in Sample 0.081 grams
Total Percent Fines 0.12 %

Dry Sieving Summary

Total Sample Weight 69.856 grams
Total Digested Weight 47.765 grams
Total Carbonate Weight 22.091 grams
Total Silica % 68.38 %
Total Carbonate % 31.62 %
Carbonate/Silica Ratio 0.462

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-44-BB

Total Sample Mass: 69.856 grams

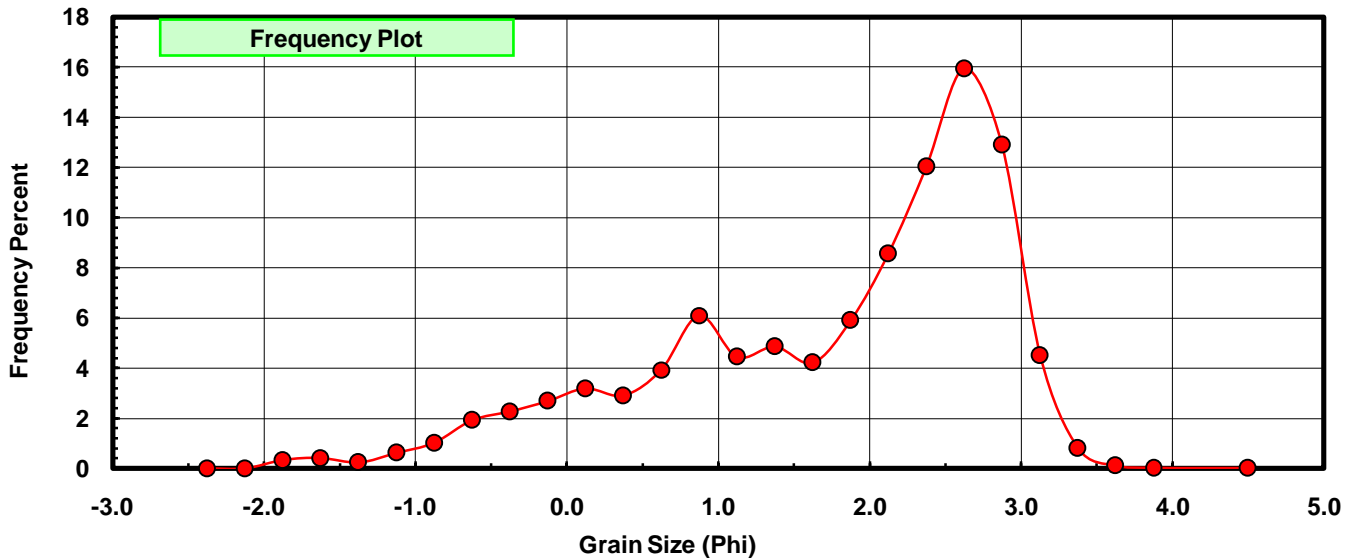
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.231	0.331	0.331
-1.50	-1.625	0.285	0.408	0.739
-1.25	-1.375	0.166	0.238	0.976
-1.00	-1.125	0.436	0.624	1.600
-0.75	-0.875	0.713	1.021	2.621
-0.50	-0.625	1.342	1.921	4.542
-0.25	-0.375	1.581	2.263	6.805
0.00	-0.125	1.881	2.693	9.498
0.25	0.125	2.223	3.182	12.680
0.50	0.375	2.026	2.900	15.581
0.75	0.625	2.747	3.932	19.513
1.00	0.875	4.263	6.103	25.616
1.25	1.125	3.106	4.446	30.062
1.50	1.375	3.396	4.861	34.923
1.75	1.625	2.944	4.214	39.138
2.00	1.875	4.123	5.902	45.040
2.25	2.125	5.991	8.576	53.616
2.50	2.375	8.408	12.036	65.652
2.75	2.625	11.143	15.951	81.604
3.00	2.875	9.024	12.918	94.522
3.25	3.125	3.156	4.518	99.039
3.50	3.375	0.568	0.813	99.853
3.75	3.625	0.077	0.110	99.963
4.00	3.875	0.016	0.023	99.986
5.00	4.50	0.010	0.014	100.000

Statistical Results			
Mean:	1.7653	phi	(0.2942 mm)
Standard Dev:	1.1301	phi-units	(0.4569 mm)
Skewness:	-0.8874	dimensionless	
Kurtosis:	2.9340	dimensionless	
5th Moment:	-5.7185	dimensionless	
6th Moment:	15.6213	dimensionless	
RARD *	0.6402	dimensionless	
Median	2.0196	phi	(0.2466 mm)

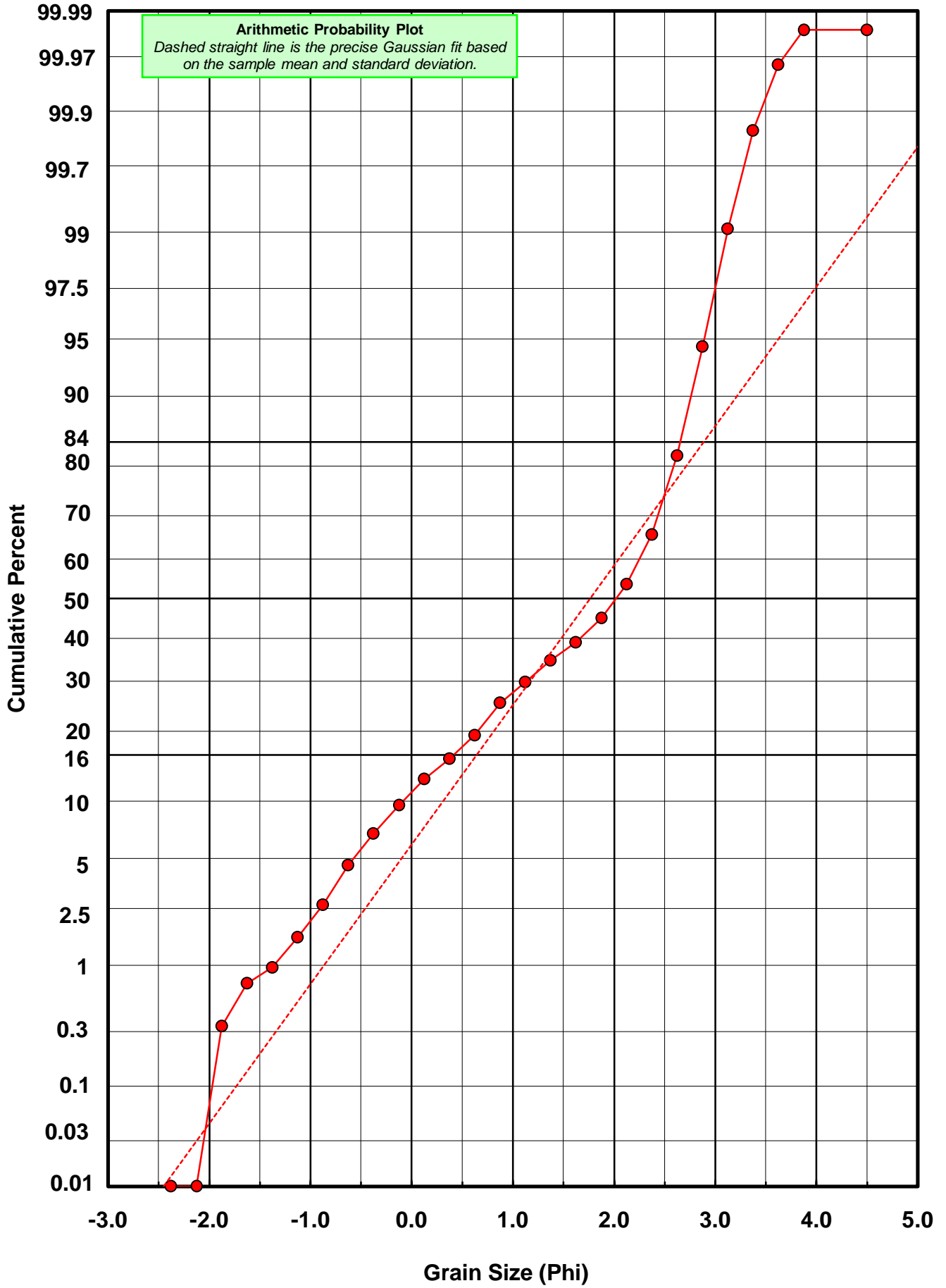
* RARD = reciprocal absolute relative dispersion (see below)

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-44-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PI-44-BB

Total Carbonate Mass: 22.668 grams

% Carbonate: 31.6 %

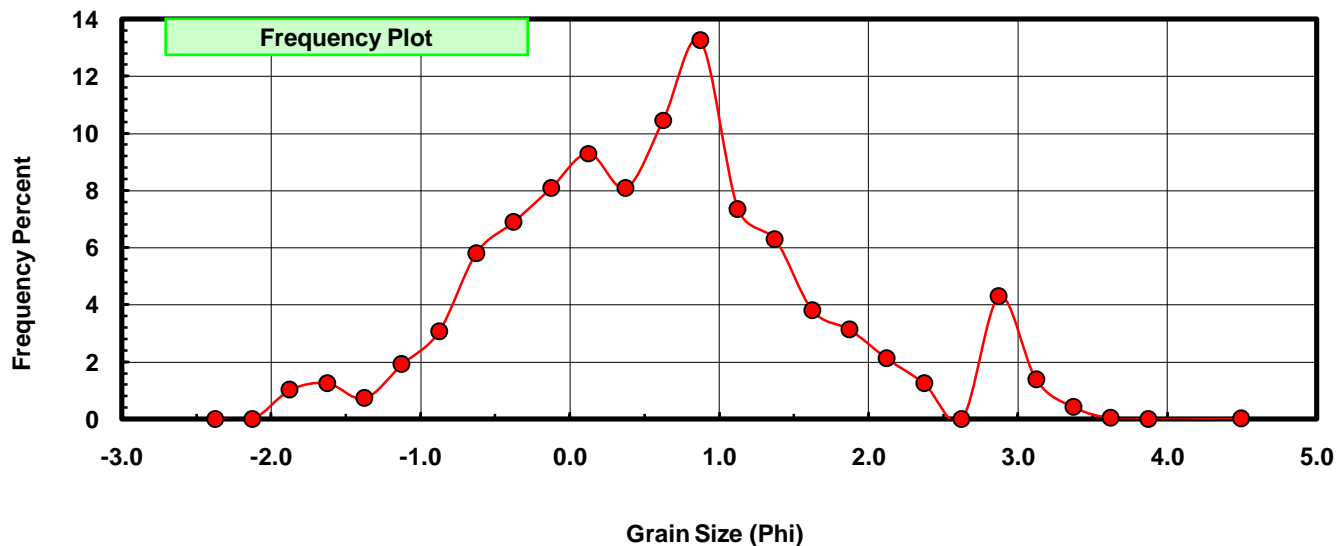
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.231	1.019	1.019
-1.50	-1.625	0.285	1.257	2.276
-1.25	-1.375	0.166	0.732	3.009
-1.00	-1.125	0.436	1.923	4.932
-0.75	-0.875	0.697	3.075	8.007
-0.50	-0.625	1.316	5.806	13.812
-0.25	-0.375	1.564	6.900	20.712
0.00	-0.125	1.834	8.091	28.803
0.25	0.125	2.109	9.304	38.107
0.50	0.375	1.834	8.091	46.197
0.75	0.625	2.373	10.469	56.666
1.00	0.875	3.003	13.248	69.914
1.25	1.125	1.665	7.345	77.259
1.50	1.375	1.427	6.295	83.554
1.75	1.625	0.863	3.807	87.361
2.00	1.875	0.709	3.128	90.489
2.25	2.125	0.482	2.126	92.615
2.50	2.375	0.282	1.244	93.859
2.75	2.625	0.000	0.000	93.859
3.00	2.875	0.972	4.288	98.147
3.25	3.125	0.313	1.381	99.528
3.50	3.375	0.096	0.424	99.951
3.75	3.625	0.008	0.035	99.987
4.00	3.875	0.000	0.000	99.987
5.00	4.500	0.003	0.013	100.000

Statistical Results			
Mean:	0.5999	phi	(0.6598 mm)
Standard Dev:	1.0694	phi-units	(0.4765 mm)
Skewness:	0.3164	dimensionless	
Kurtosis:	3.0012	dimensionless	
5th Moment:	2.1702	dimensionless	
6th Moment:	12.8982	dimensionless	
RARD *	1.7825	dimensionless	
Median	0.4658	phi	(0.7241 mm)

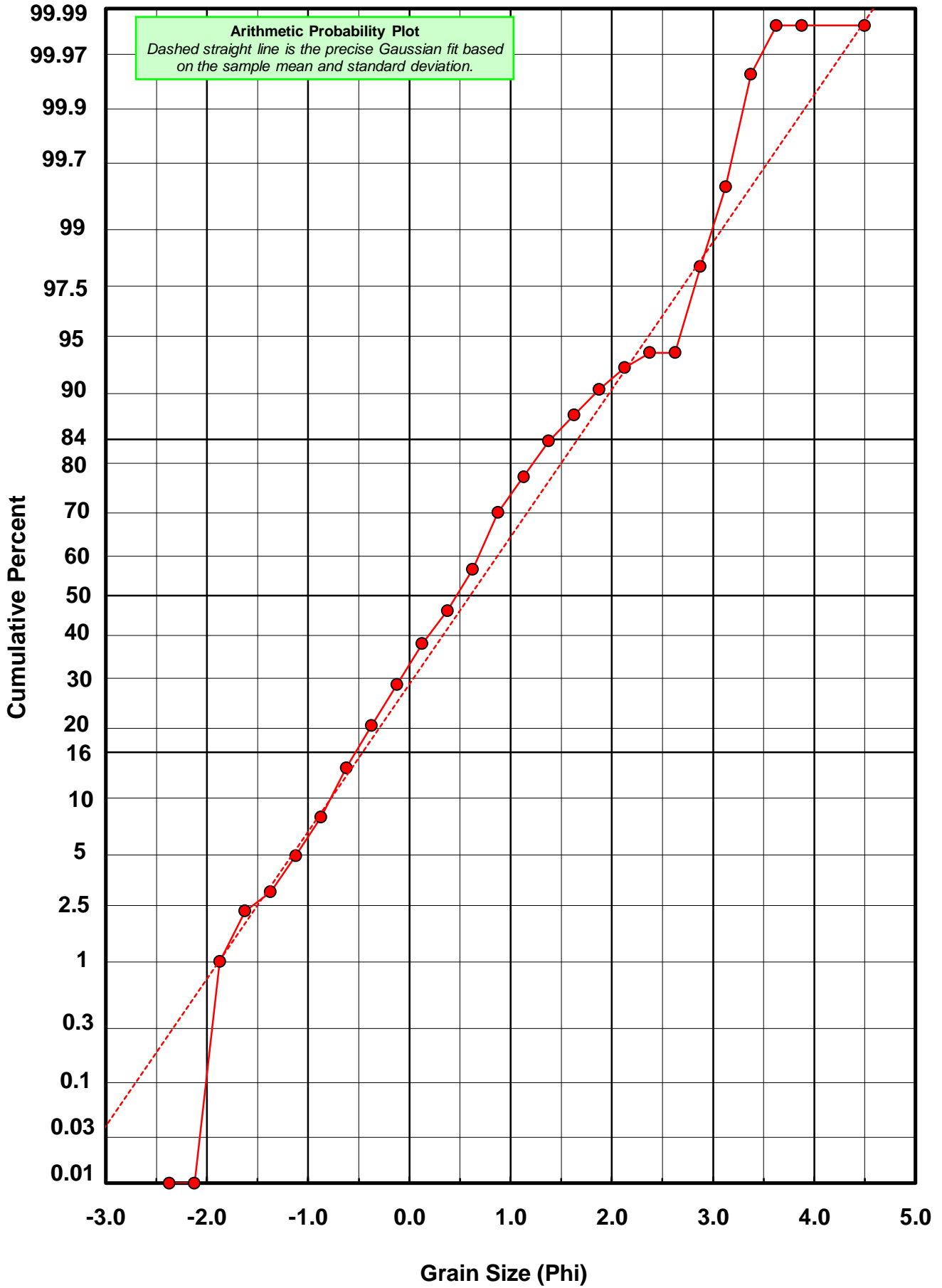
* RARD = reciprocal absolute relative dispersion (see below)

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-44-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-44-BB

Total Digested Mass: 47.765 grams

% Silica: 68.4 %

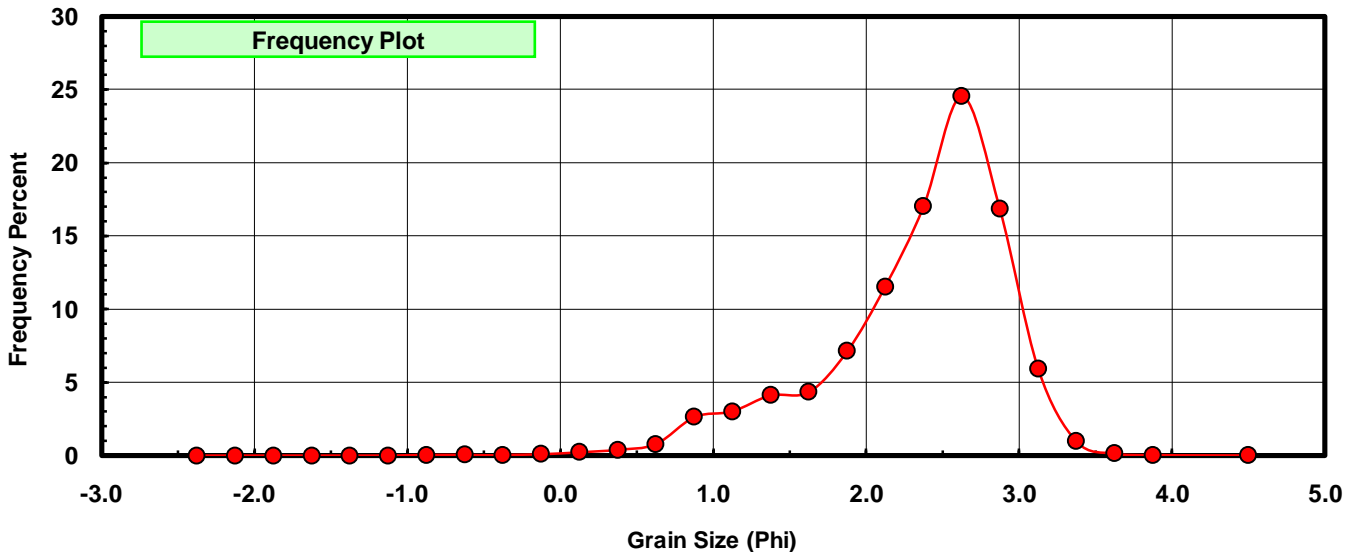
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.016	0.033	0.033
-0.50	-0.625	0.026	0.054	0.088
-0.25	-0.375	0.017	0.036	0.124
0.00	-0.125	0.047	0.098	0.222
0.25	0.125	0.114	0.239	0.461
0.50	0.375	0.192	0.402	0.863
0.75	0.625	0.374	0.783	1.646
1.00	0.875	1.260	2.638	4.283
1.25	1.125	1.441	3.017	7.300
1.50	1.375	1.969	4.122	11.423
1.75	1.625	2.081	4.357	15.779
2.00	1.875	3.414	7.147	22.927
2.25	2.125	5.509	11.534	34.460
2.50	2.375	8.126	17.012	51.473
2.75	2.625	11.720	24.537	76.010
3.00	2.875	8.052	16.858	92.867
3.25	3.125	2.843	5.952	98.819
3.50	3.375	0.472	0.988	99.807
3.75	3.625	0.069	0.144	99.952
4.00	3.875	0.016	0.033	99.985
5.00	4.500	0.007	0.015	100.000

Statistical Results			
Mean:	2.3288	phi	(0.1991 mm)
Standard Dev:	0.6140	phi-units	(0.6534 mm)
Skewness:	-1.1120	dimensionless	
Kurtosis:	4.3363	dimensionless	
5th Moment:	-11.2226	dimensionless	
6th Moment:	42.0036	dimensionless	
RARD *	0.2637	dimensionless	
Median	2.3534	phi	(0.1957 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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