

Onshore Grab Sample

Sample: PI-34-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/1/09
Splits? N/A

County: Pinellas
Latitude: 27° 46' 19.0"
Longitude: 82° 46' 33.3"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 62.092 grams
Total Fines in Sample 0.320 grams
Total Percent Fines 0.51 %

Dry Sieving Summary

Total Sample Weight 61.785 grams
Total Digested Weight 30.593 grams
Total Carbonate Weight 31.192 grams
Total Silica % 49.52 %
Total Carbonate % 50.48 %
Carbonate/Silica Ratio 1.020

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-34-BB

Total Sample Mass: 61.785 grams

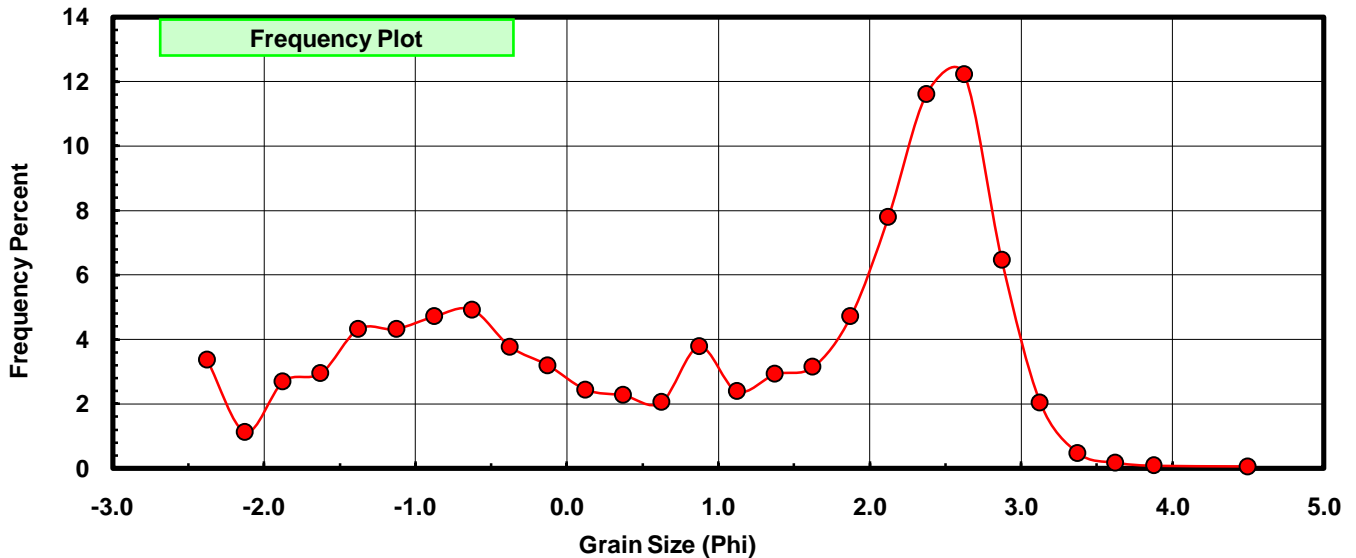
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	2.083	3.371	3.371
-2.00	-2.125	0.695	1.125	4.496
-1.75	-1.875	1.661	2.688	7.185
-1.50	-1.625	1.821	2.947	10.132
-1.25	-1.375	2.673	4.326	14.458
-1.00	-1.125	2.669	4.320	18.778
-0.75	-0.875	2.910	4.710	23.488
-0.50	-0.625	3.042	4.924	28.411
-0.25	-0.375	2.331	3.773	32.184
0.00	-0.125	1.974	3.195	35.379
0.25	0.125	1.508	2.441	37.820
0.50	0.375	1.405	2.274	40.094
0.75	0.625	1.265	2.047	42.141
1.00	0.875	2.332	3.774	45.916
1.25	1.125	1.475	2.387	48.303
1.50	1.375	1.805	2.921	51.224
1.75	1.625	1.942	3.143	54.368
2.00	1.875	2.913	4.715	59.082
2.25	2.125	4.817	7.796	66.879
2.50	2.375	7.166	11.598	78.477
2.75	2.625	7.555	12.228	90.705
3.00	2.875	3.991	6.459	97.164
3.25	3.125	1.261	2.041	99.205
3.50	3.375	0.294	0.476	99.681
3.75	3.625	0.109	0.176	99.858
4.00	3.875	0.053	0.086	99.943
5.00	4.50	0.035	0.057	100.000

Statistical Results			
Mean:	0.9034	phi	(0.5346 mm)
Standard Dev:	1.7030	phi-units	(0.3071 mm)
Skewness:	-0.3963	dimensionless	
Kurtosis:	1.7140	dimensionless	
5th Moment:	-1.5261	dimensionless	
6th Moment:	4.0214	dimensionless	
RARD *	1.8852	dimensionless	
Median	1.2702	phi	(0.4146 mm)

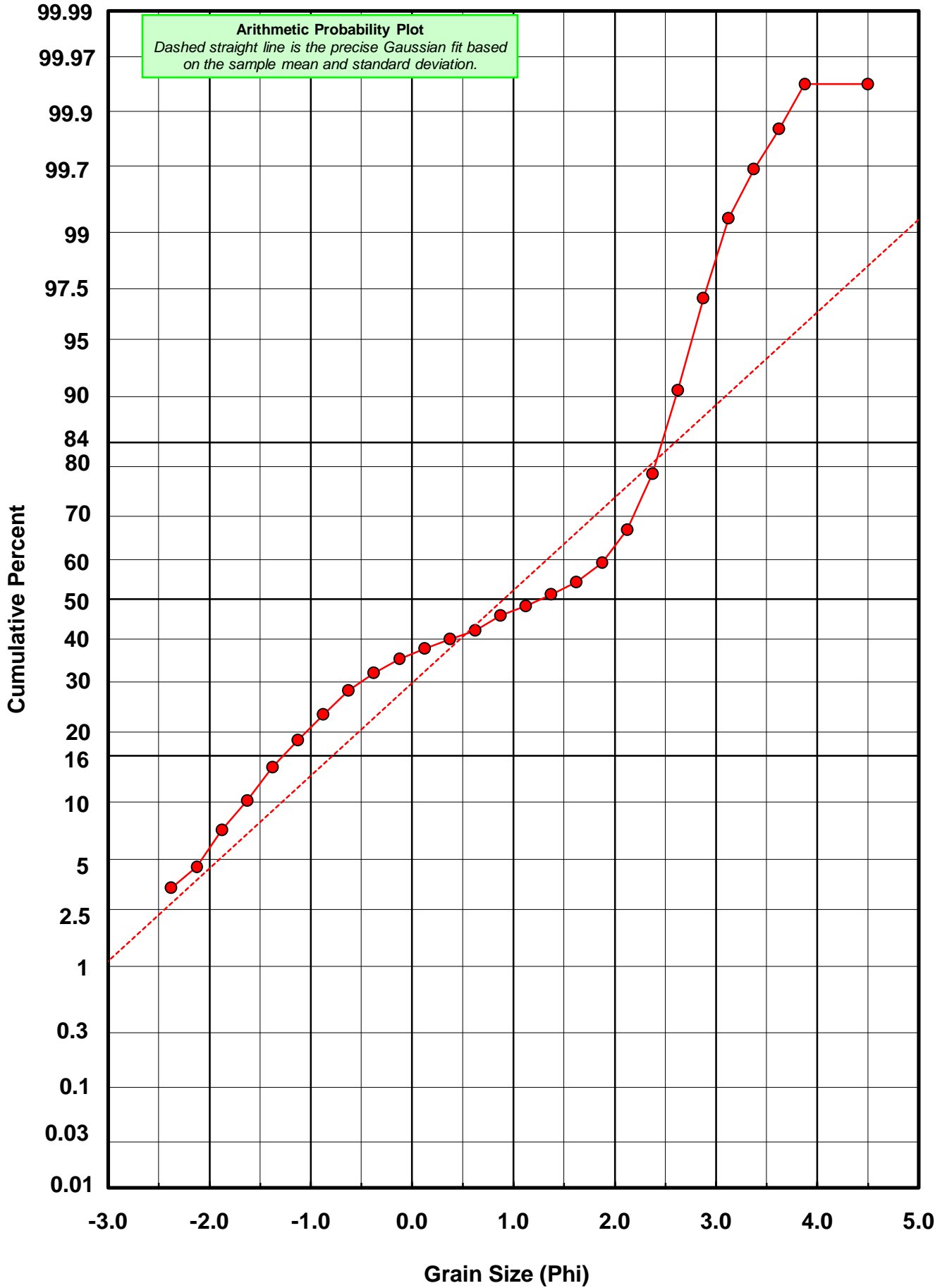
* RARD = reciprocal absolute relative dispersion (see below)

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-34-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PI-34-BB

Total Carbonate Mass: 31.424 grams

% Carbonate: 50.5 %

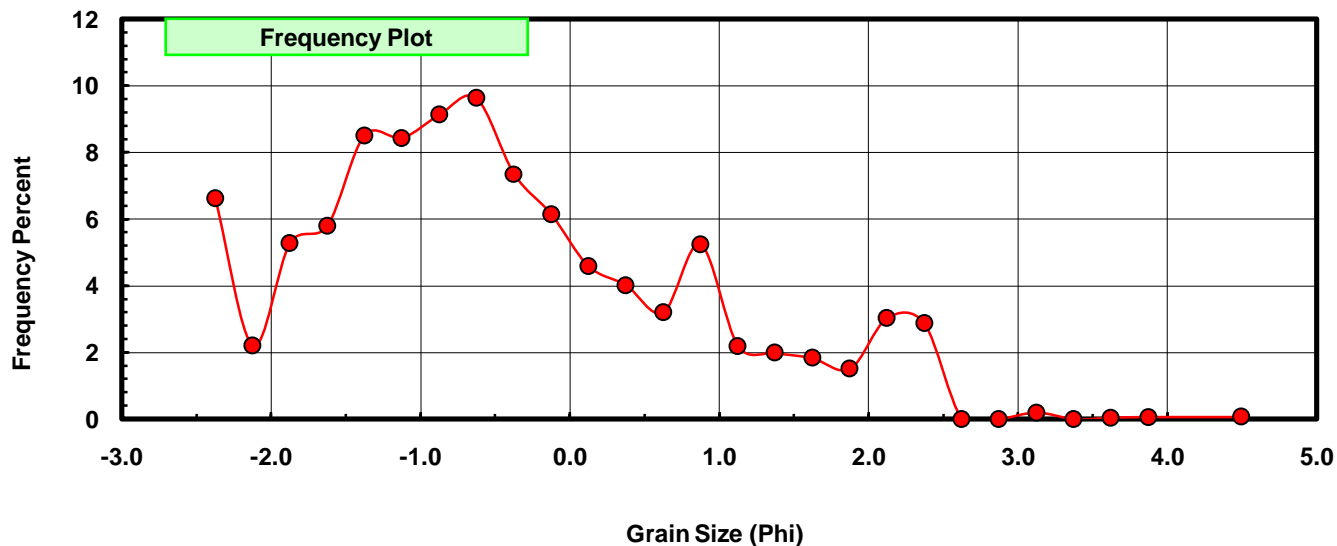
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	2.083	6.629	6.629
-2.00	-2.125	0.695	2.212	8.840
-1.75	-1.875	1.661	5.286	14.126
-1.50	-1.625	1.821	5.795	19.921
-1.25	-1.375	2.673	8.506	28.427
-1.00	-1.125	2.650	8.433	36.860
-0.75	-0.875	2.868	9.127	45.987
-0.50	-0.625	3.027	9.633	55.620
-0.25	-0.375	2.313	7.361	62.981
0.00	-0.125	1.931	6.145	69.126
0.25	0.125	1.444	4.595	73.721
0.50	0.375	1.263	4.019	77.740
0.75	0.625	1.006	3.201	80.941
1.00	0.875	1.649	5.248	86.189
1.25	1.125	0.690	2.196	88.385
1.50	1.375	0.625	1.989	90.374
1.75	1.625	0.576	1.833	92.207
2.00	1.875	0.475	1.512	93.718
2.25	2.125	0.955	3.039	96.757
2.50	2.375	0.904	2.877	99.634
2.75	2.625	0.000	0.000	99.634
3.00	2.875	0.000	0.000	99.634
3.25	3.125	0.063	0.200	99.835
3.50	3.375	0.000	0.000	99.835
3.75	3.625	0.013	0.041	99.876
4.00	3.875	0.018	0.057	99.933
5.00	4.500	0.021	0.067	100.000

Statistical Results			
Mean:	-0.4421	phi	(1.3586 mm)
Standard Dev:	1.2759	phi-units	(0.413 mm)
Skewness:	0.6007	dimensionless	
Kurtosis:	2.7413	dimensionless	
5th Moment:	3.9390	dimensionless	
6th Moment:	12.5211	dimensionless	
RARD *	2.8863	dimensionless	
Median	-0.7709	phi	(1.7063 mm)

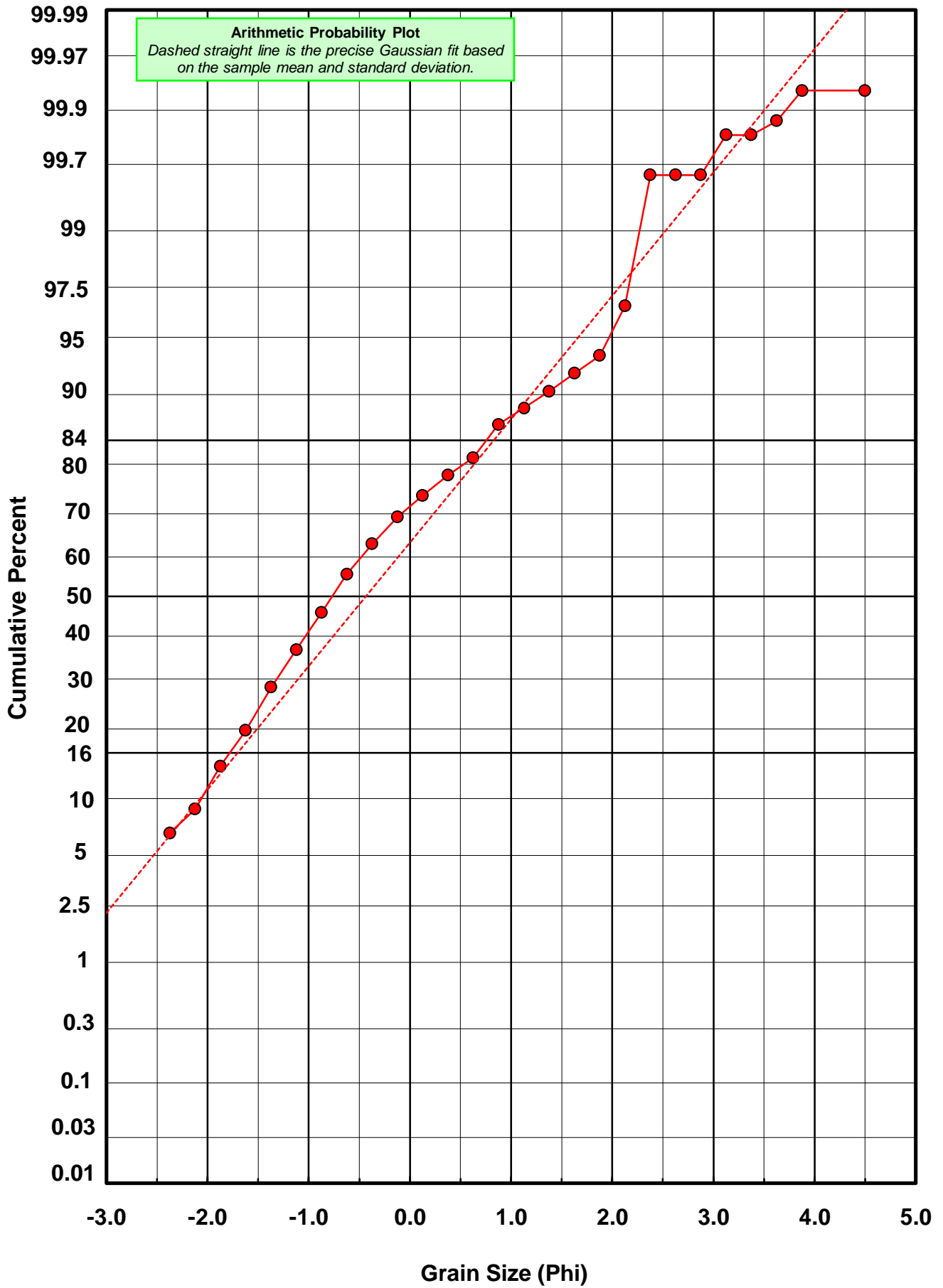
* RARD = reciprocal absolute relative dispersion (see below)

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-34-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-34-BB

Total Digested Mass: 30.593 grams

% Silica: 49.5 %

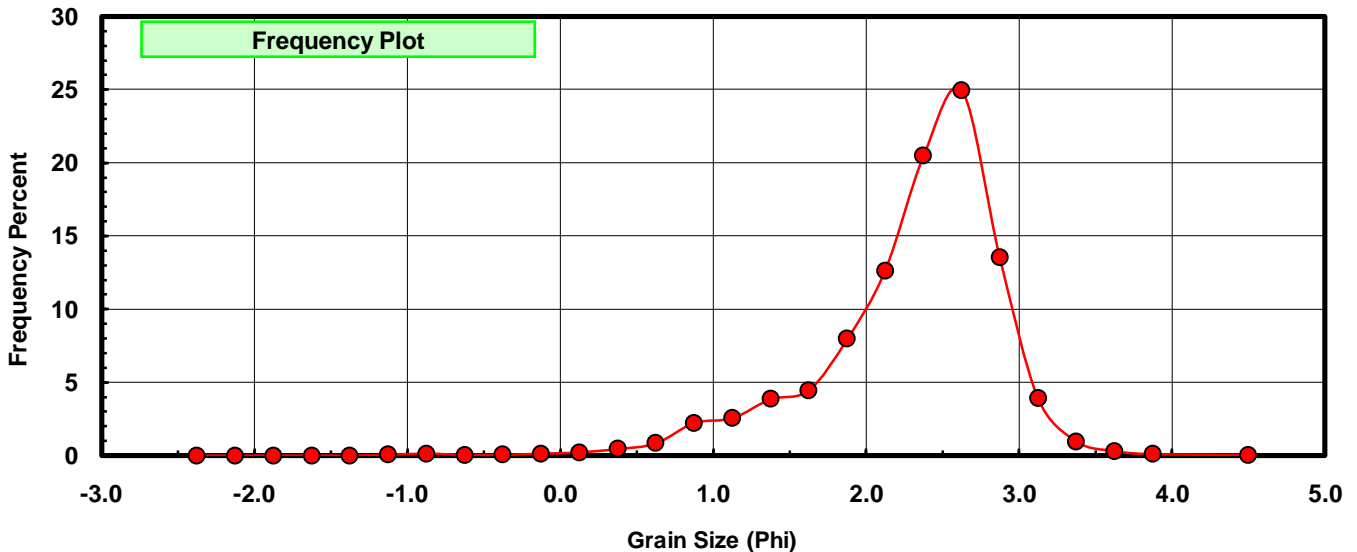
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.019	0.062	0.062
-0.75	-0.875	0.042	0.137	0.199
-0.50	-0.625	0.015	0.049	0.248
-0.25	-0.375	0.018	0.059	0.307
0.00	-0.125	0.043	0.141	0.448
0.25	0.125	0.064	0.209	0.657
0.50	0.375	0.142	0.464	1.121
0.75	0.625	0.259	0.847	1.968
1.00	0.875	0.683	2.233	4.200
1.25	1.125	0.785	2.566	6.766
1.50	1.375	1.180	3.857	10.623
1.75	1.625	1.366	4.465	15.088
2.00	1.875	2.438	7.969	23.058
2.25	2.125	3.862	12.624	35.681
2.50	2.375	6.262	20.469	56.150
2.75	2.625	7.629	24.937	81.087
3.00	2.875	4.147	13.555	94.643
3.25	3.125	1.198	3.916	98.558
3.50	3.375	0.296	0.968	99.526
3.75	3.625	0.096	0.314	99.840
4.00	3.875	0.035	0.114	99.954
5.00	4.500	0.014	0.046	100.000

Statistical Results			
Mean:	2.2997	phi	(0.2031 mm)
Standard Dev:	0.6115	phi-units	(0.6545 mm)
Skewness:	-1.2604	dimensionless	
Kurtosis:	5.7205	dimensionless	
5th Moment:	-18.2618	dimensionless	
6th Moment:	84.2528	dimensionless	
RARD *	0.2659	dimensionless	
Median	2.2999	phi	(0.2031 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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