

## Onshore Grab Sample

Sample: PI-30-BB  
Sample Taken By: D. Phelps  
Sample Collected On: 10/8/09  
Splits? N/A

County: Pinellas  
Latitude: 27° 48' 9.4"  
Longitude: 82° 48' 18.2"  
Datum: WGS 84  
Surf. Elev: N/A  
Datum: N/A

### Fine Data Summary

Total Sample Weight	56.718 grams
Total Fines in Sample	0.065 grams
Total Percent Fines	0.11 %

### Dry Sieving Summary

Total Sample Weight	56.672 grams
Total Digested Weight	43.396 grams
Total Carbonate Weight	13.276 grams
Total Silica %	76.57 %
Total Carbonate %	23.43 %
Carbonate/Silica Ratio	0.306

### General Comments:

None

### Description

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-30-BB

Total Sample Mass: 56.672 grams

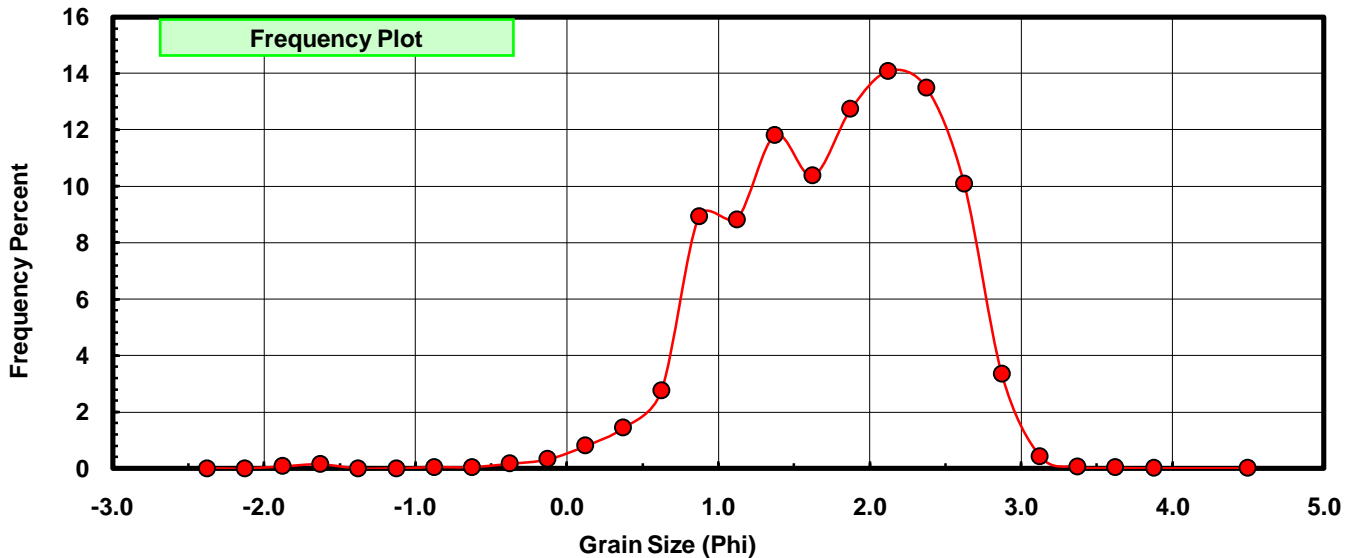
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.043	0.076	0.076
-1.50	-1.625	0.078	0.138	0.214
-1.25	-1.375	0.000	0.000	0.214
-1.00	-1.125	0.000	0.000	0.214
-0.75	-0.875	0.022	0.039	0.252
-0.50	-0.625	0.024	0.042	0.295
-0.25	-0.375	0.094	0.166	0.461
0.00	-0.125	0.182	0.321	0.782
0.25	0.125	0.453	0.799	1.581
0.50	0.375	0.816	1.440	3.021
0.75	0.625	1.558	2.749	5.770
1.00	0.875	5.065	8.937	14.707
1.25	1.125	5.002	8.826	23.534
1.50	1.375	6.695	11.814	35.347
1.75	1.625	5.879	10.374	45.721
2.00	1.875	7.219	12.738	58.459
2.25	2.125	7.985	14.090	72.549
2.50	2.375	7.646	13.492	86.041
2.75	2.625	5.717	10.088	96.129
3.00	2.875	1.893	3.340	99.469
3.25	3.125	0.241	0.425	99.894
3.50	3.375	0.032	0.056	99.951
3.75	3.625	0.014	0.025	99.975
4.00	3.875	0.007	0.012	99.988
5.00	4.50	0.007	0.012	100.000

Statistical Results			
Mean:	1.7634	phi	(0.2945 mm)
Standard Dev:	0.6839	phi-units	(0.6225 mm)
Skewness:	-0.5775	dimensionless	
Kurtosis:	3.7761	dimensionless	
5th Moment:	-9.8033	dimensionless	
6th Moment:	49.2132	dimensionless	
RARD *	0.3878	dimensionless	
Median	1.7090	phi	(0.3059 mm)

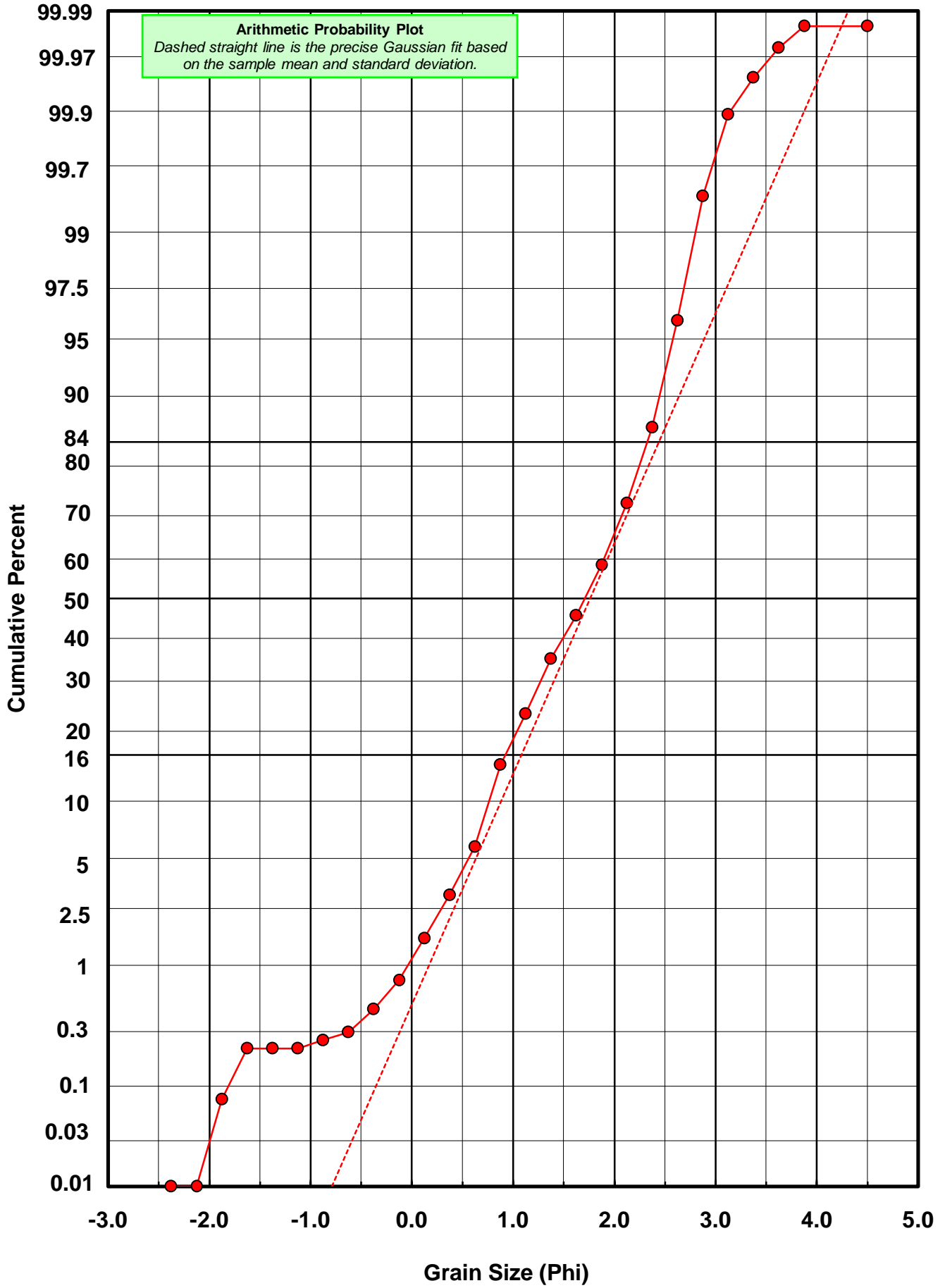
\* RARD = reciprocal absolute relative dispersion (see below)

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-30-BB



# Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PI-30-BB

Total Carbonate Mass: 13.372 grams

% Carbonate: 23.4 %

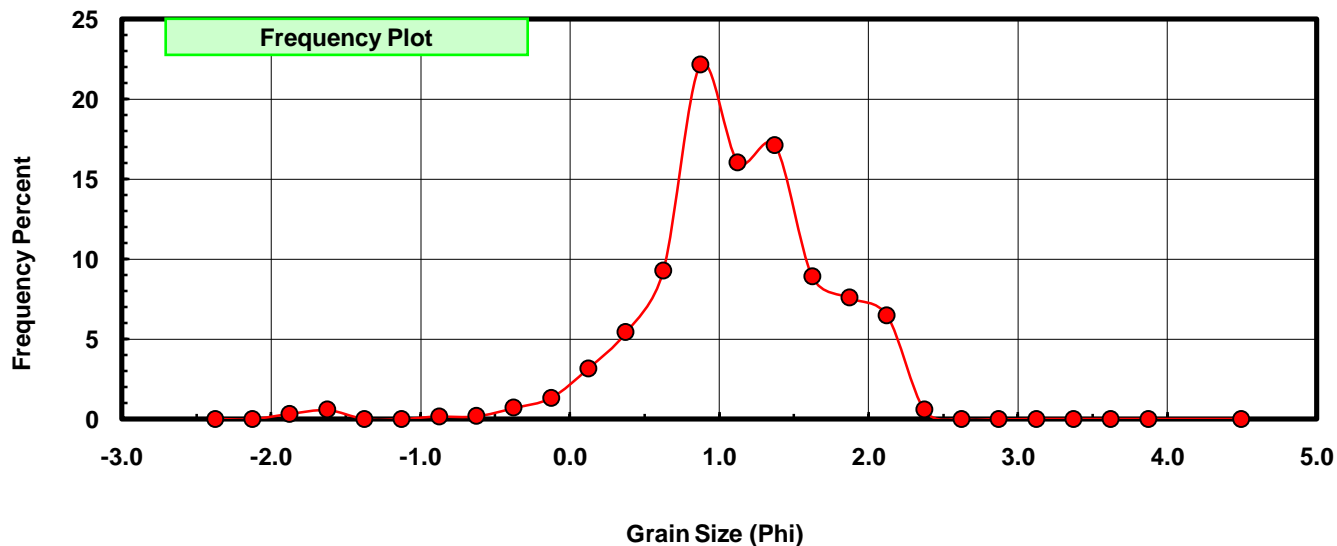
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.043	0.322	0.322
-1.50	-1.625	0.078	0.583	0.905
-1.25	-1.375	0.000	0.000	0.905
-1.00	-1.125	0.000	0.000	0.905
-0.75	-0.875	0.022	0.165	1.069
-0.50	-0.625	0.024	0.179	1.249
-0.25	-0.375	0.094	0.703	1.952
0.00	-0.125	0.178	1.331	3.283
0.25	0.125	0.424	3.171	6.454
0.50	0.375	0.726	5.429	11.883
0.75	0.625	1.239	9.266	21.149
1.00	0.875	2.960	22.136	43.284
1.25	1.125	2.146	16.048	59.333
1.50	1.375	2.288	17.110	76.443
1.75	1.625	1.192	8.914	85.357
2.00	1.875	1.015	7.590	92.948
2.25	2.125	0.864	6.461	99.409
2.50	2.375	0.078	0.583	99.993
2.75	2.625	0.001	0.007	100.000
3.00	2.875	0.000	0.000	100.000
3.25	3.125	0.000	0.000	100.000
3.50	3.375	0.000	0.000	100.000
3.75	3.625	0.000	0.000	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.1079	phi	(0.464 mm)
Standard Dev:	0.6326	phi-units	(0.645 mm)
Skewness:	-0.8931	dimensionless	
Kurtosis:	5.7725	dimensionless	
5th Moment:	-18.6136	dimensionless	
6th Moment:	86.2937	dimensionless	
RARD *	0.5710	dimensionless	
Median	0.9796	phi	(0.5071 mm)

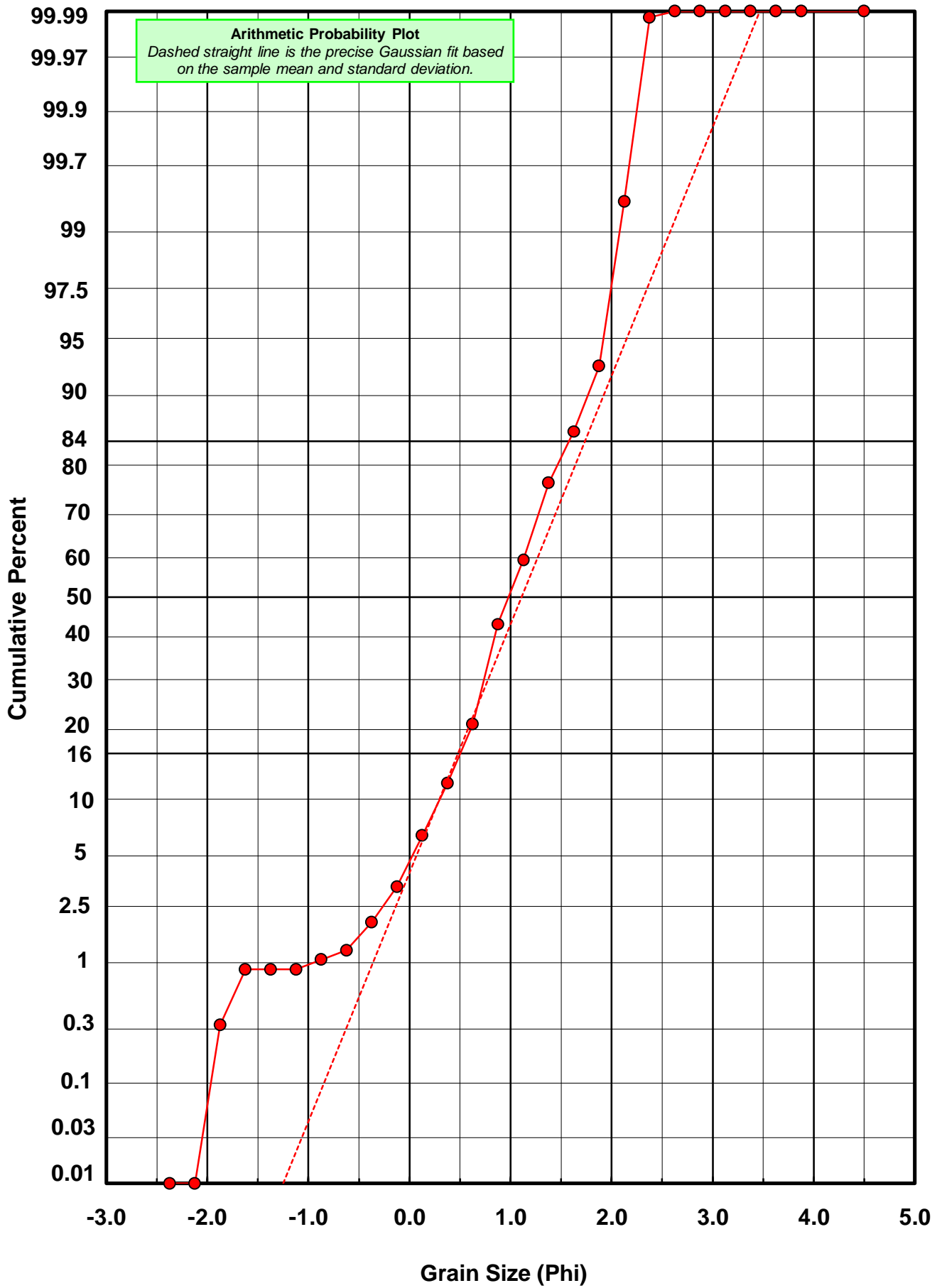
\* RARD = reciprocal absolute relative dispersion (see below)

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	
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# PI-30-BB



# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-30-BB

Total Digested Mass: 43.396 grams

% Silica: 76.6 %

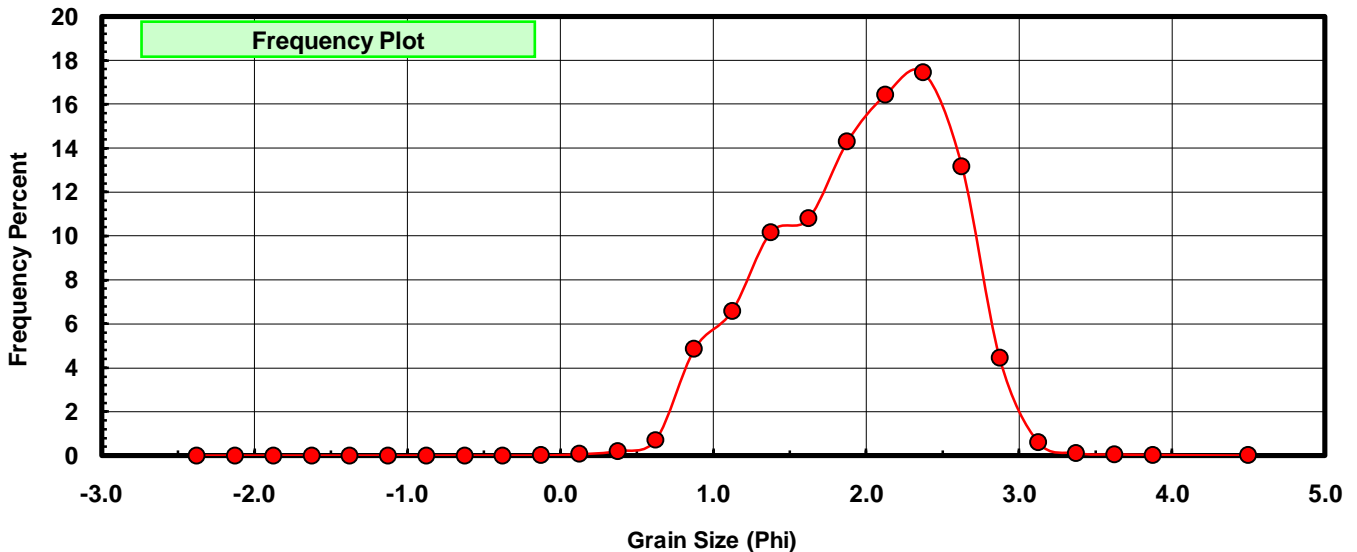
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.004	0.009	0.009
0.25	0.125	0.029	0.067	0.076
0.50	0.375	0.090	0.207	0.283
0.75	0.625	0.319	0.735	1.019
1.00	0.875	2.105	4.851	5.869
1.25	1.125	2.856	6.581	12.450
1.50	1.375	4.407	10.155	22.606
1.75	1.625	4.687	10.801	33.406
2.00	1.875	6.204	14.296	47.703
2.25	2.125	7.121	16.409	64.112
2.50	2.375	7.568	17.439	81.551
2.75	2.625	5.716	13.172	94.723
3.00	2.875	1.927	4.441	99.164
3.25	3.125	0.268	0.618	99.781
3.50	3.375	0.048	0.111	99.892
3.75	3.625	0.023	0.053	99.945
4.00	3.875	0.015	0.035	99.979
5.00	4.500	0.009	0.021	100.000

Statistical Results			
Mean:	1.9687	phi	(0.2555 mm)
Standard Dev:	0.5691	phi-units	(0.674 mm)
Skewness:	-0.3141	dimensionless	
Kurtosis:	2.4926	dimensionless	
5th Moment:	-1.4170	dimensionless	
6th Moment:	10.9685	dimensionless	
RARD *	0.2891	dimensionless	
Median	1.9100	phi	(0.2661 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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