

Onshore Grab Sample

Sample: PB-02
Sample Taken By: D. Phelps
Sample Collected On: 12/18/08
Splits? N/A

County: Palm Beach
Latitude: 26° 56' 54.6"
Longitude: 80° 04' 22.5"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 67.646 grams
Total Fines in Sample 0.174 grams
Total Percent Fines 0.26 %

Dry Sieving Summary

Total Sample Weight 67.407 grams
Total Digested Weight 29.353 grams
Total Carbonate Weight 38.054 grams
Total Silica % 43.55 %
Total Carbonate % 56.45 %
Carbonate/Silica Ratio 1.296

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PB-02

Total Sample Mass: 67.407 grams

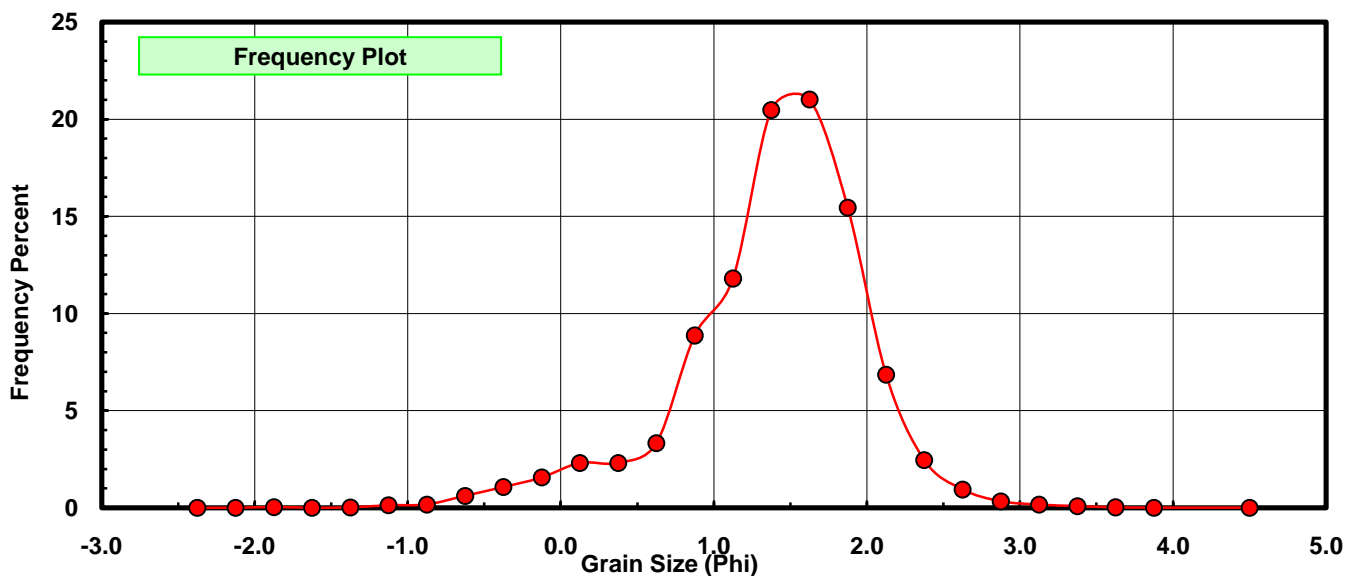
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.024	0.036	0.036
-1.50	-1.625	0.000	0.000	0.036
-1.25	-1.375	0.014	0.021	0.056
-1.00	-1.125	0.085	0.126	0.182
-0.75	-0.875	0.115	0.171	0.353
-0.50	-0.625	0.415	0.616	0.969
-0.25	-0.375	0.718	1.065	2.034
0.00	-0.125	1.050	1.558	3.592
0.25	0.125	1.554	2.305	5.897
0.50	0.375	1.558	2.311	8.208
0.75	0.625	2.242	3.326	11.534
1.00	0.875	5.978	8.869	20.403
1.25	1.125	7.954	11.800	32.203
1.50	1.375	13.795	20.465	52.668
1.75	1.625	14.162	21.010	73.678
2.00	1.875	10.414	15.449	89.127
2.25	2.125	4.622	6.857	95.984
2.50	2.375	1.654	2.454	98.438
2.75	2.625	0.637	0.945	99.383
3.00	2.875	0.226	0.335	99.718
3.25	3.125	0.109	0.162	99.880
3.50	3.375	0.057	0.085	99.964
3.75	3.625	0.016	0.024	99.988
4.00	3.875	0.004	0.006	99.994
5.00	4.50	0.004	0.006	100.000

Statistical Results			
Mean:	1.3892	phi	(0.3818 mm)
Standard Dev:	0.6120	phi-units	(0.6543 mm)
Skewness:	-0.8800	dimensionless	
Kurtosis:	4.8343	dimensionless	
5th Moment:	-9.8582	dimensionless	
6th Moment:	46.7123	dimensionless	
RARD *	0.4405	dimensionless	
Median	1.3424	phi	(0.3944 mm)

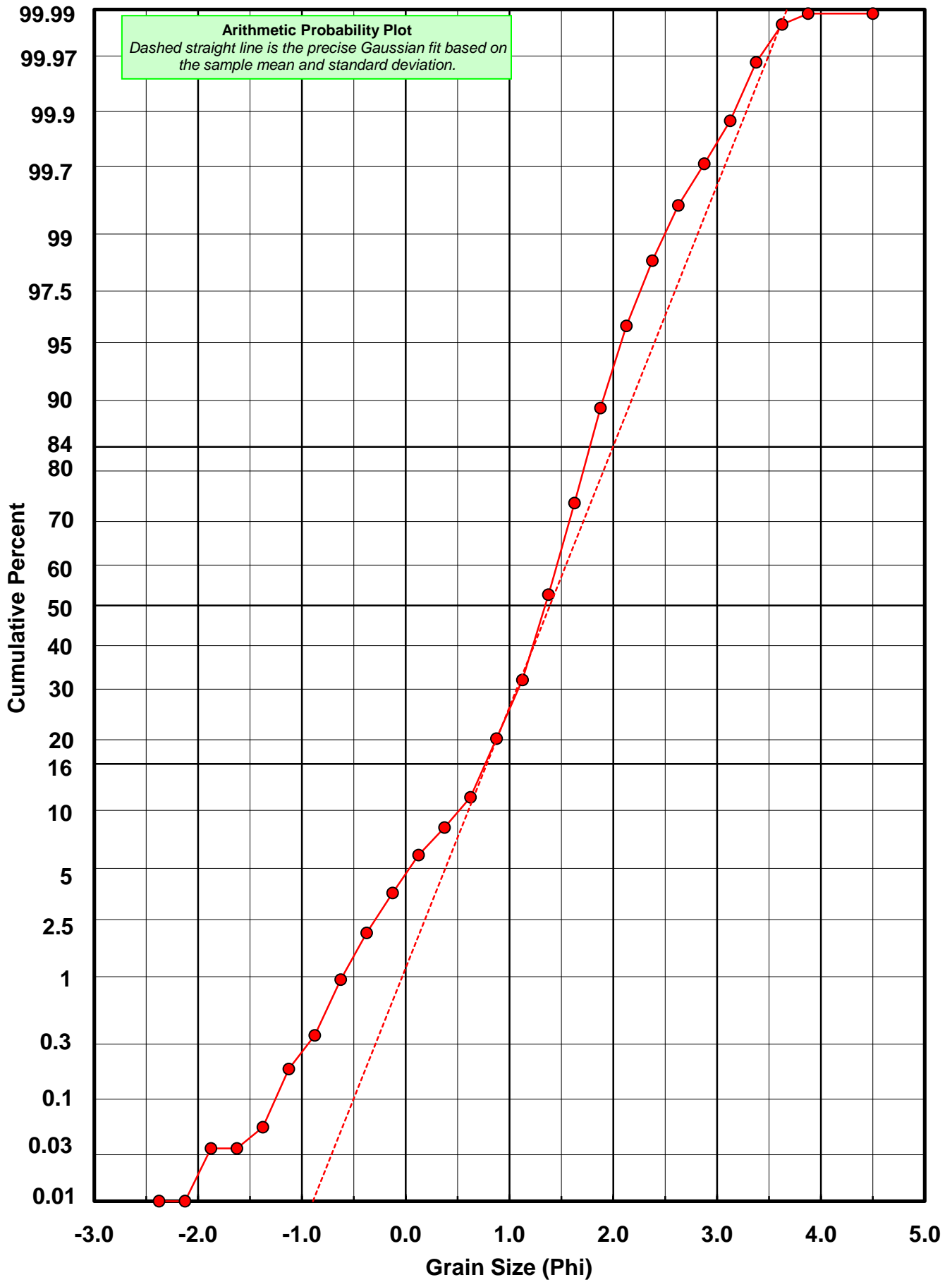
* RARD = reciprocal absolute relative dispersion (see below)

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)



PB-02



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PB-02

Total Carbonate Mass: 38.214 grams

% Carbonate: 56.5 %

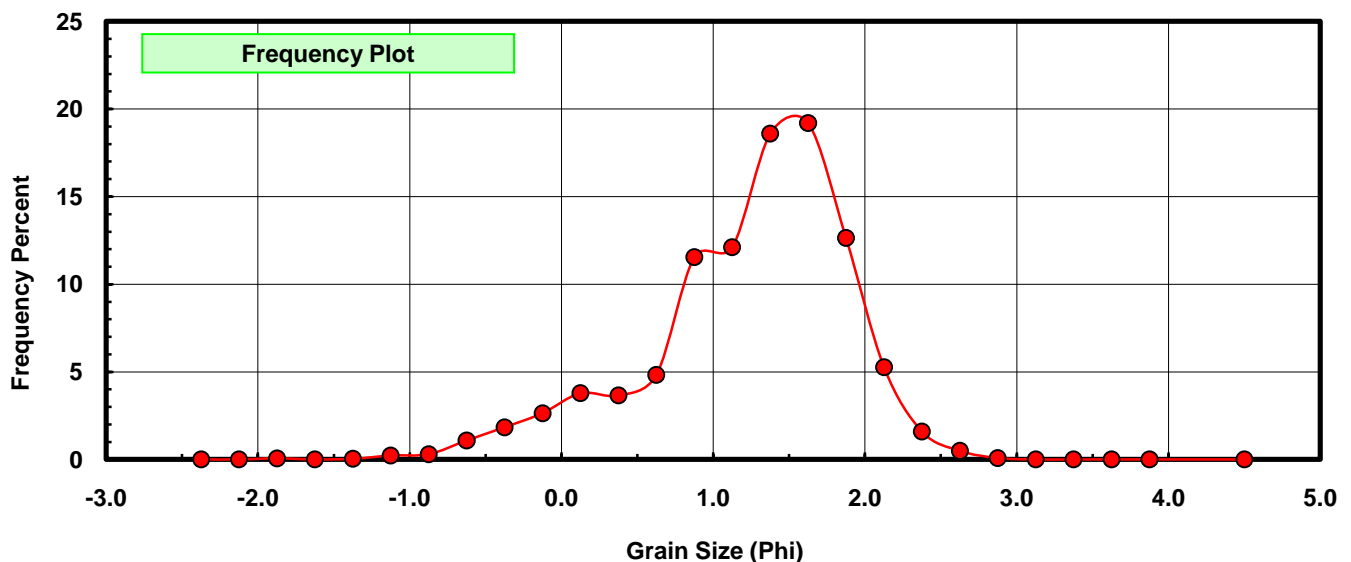
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.024	0.063	0.063
-1.50	-1.625	0.000	0.000	0.063
-1.25	-1.375	0.014	0.037	0.099
-1.00	-1.125	0.085	0.222	0.322
-0.75	-0.875	0.115	0.301	0.623
-0.50	-0.625	0.415	1.086	1.709
-0.25	-0.375	0.703	1.840	3.548
0.00	-0.125	1.010	2.643	6.191
0.25	0.125	1.445	3.781	9.973
0.50	0.375	1.396	3.653	13.626
0.75	0.625	1.847	4.833	18.459
1.00	0.875	4.414	11.551	30.010
1.25	1.125	4.632	12.121	42.131
1.50	1.375	7.104	18.590	60.721
1.75	1.625	7.339	19.205	79.926
2.00	1.875	4.829	12.637	92.563
2.25	2.125	2.013	5.268	97.831
2.50	2.375	0.610	1.596	99.427
2.75	2.625	0.188	0.492	99.919
3.00	2.875	0.031	0.081	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:	1.2320	phi	(0.4257 mm)
Standard Dev:	0.6686	phi-units	(0.6291 mm)
Skewness:	-0.8968	dimensionless	
Kurtosis:	3.8096	dimensionless	
5th Moment:	-8.0211	dimensionless	
6th Moment:	28.3131	dimensionless	
RARD *	0.5427	dimensionless	
Median	1.2308	phi	(0.4261 mm)

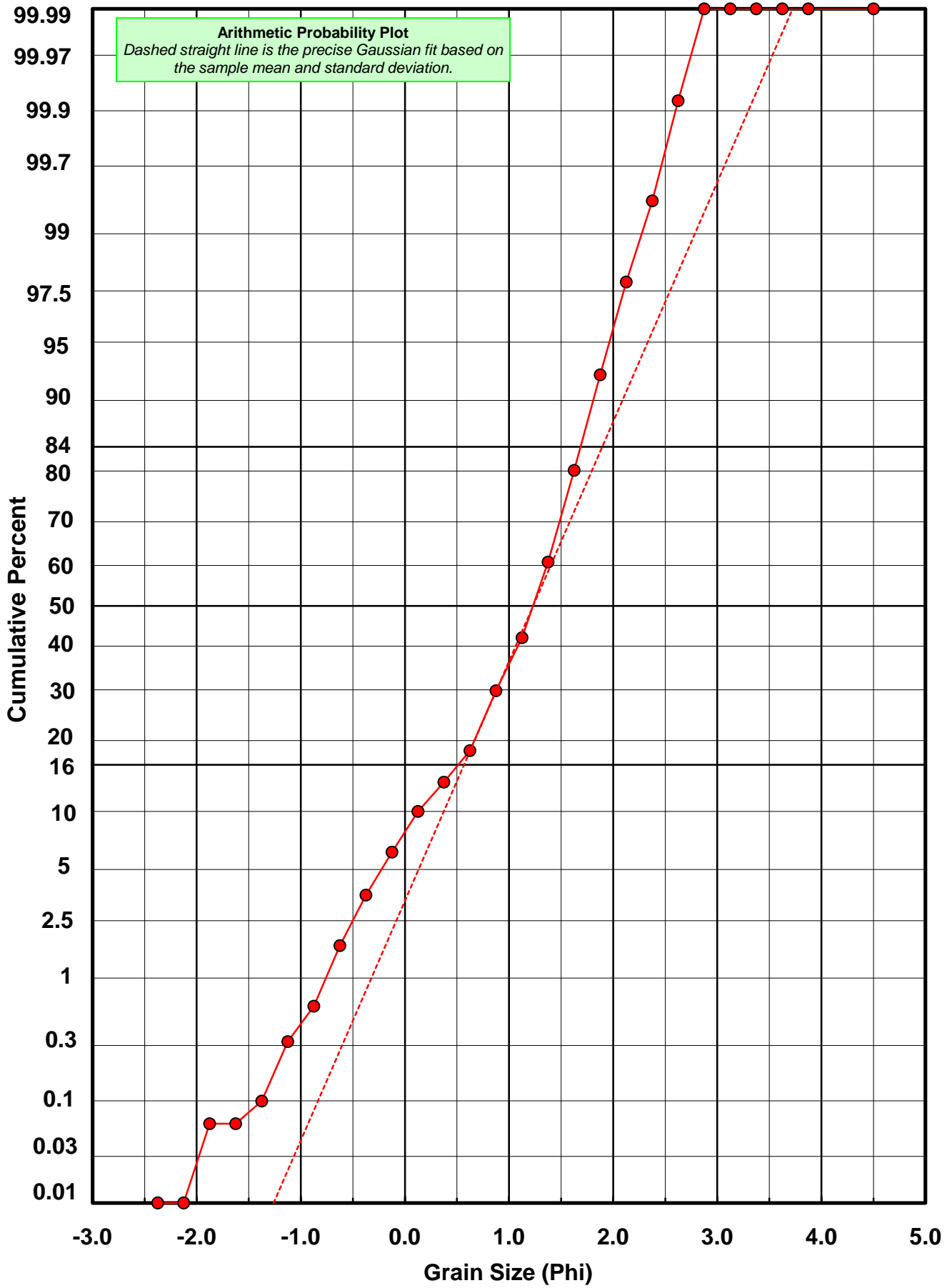
* RARD = reciprocal absolute relative dispersion (see below)

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)



PB-02



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PB-02

Total Digested Mass: 29.353 grams

% Silica: 43.5 %

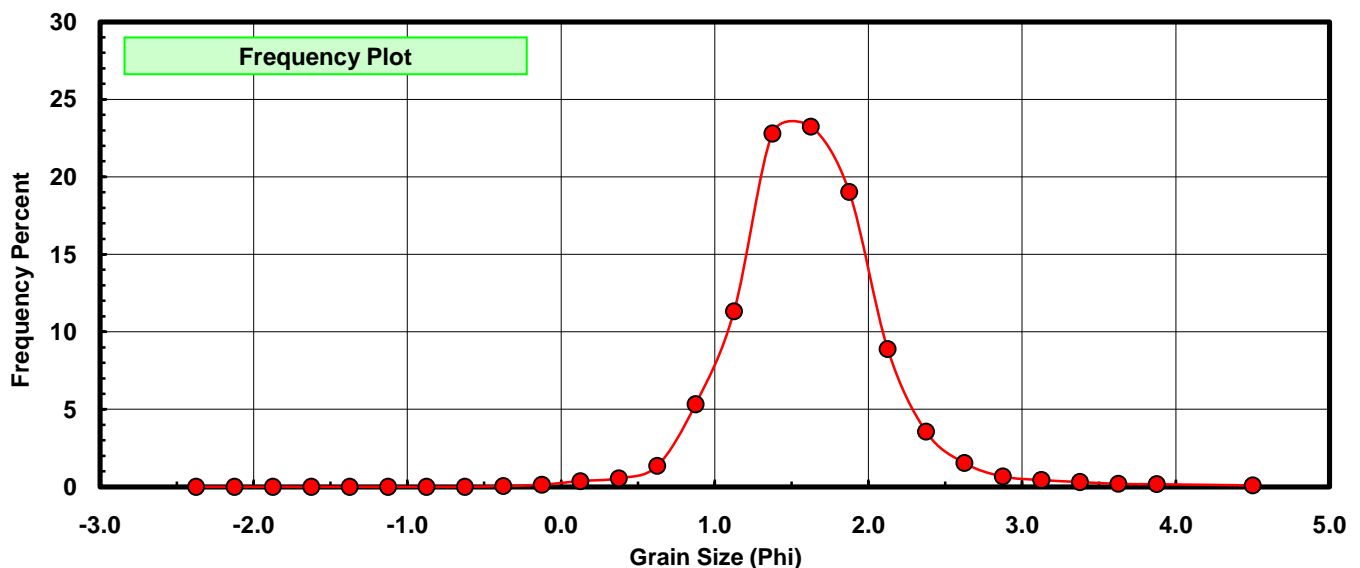
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.015	0.051	0.051
0.00	-0.125	0.040	0.136	0.187
0.25	0.125	0.109	0.371	0.559
0.50	0.375	0.162	0.552	1.111
0.75	0.625	0.395	1.346	2.456
1.00	0.875	1.564	5.328	7.785
1.25	1.125	3.322	11.317	19.102
1.50	1.375	6.691	22.795	41.897
1.75	1.625	6.823	23.245	65.142
2.00	1.875	5.585	19.027	84.169
2.25	2.125	2.609	8.888	93.057
2.50	2.375	1.044	3.557	96.614
2.75	2.625	0.449	1.530	98.143
3.00	2.875	0.195	0.664	98.808
3.25	3.125	0.128	0.436	99.244
3.50	3.375	0.091	0.310	99.554
3.75	3.625	0.055	0.187	99.741
4.00	3.875	0.049	0.167	99.908
5.00	4.500	0.027	0.092	100.000

Statistical Results			
Mean:	1.6065	phi	(0.3284 mm)
Standard Dev:	0.4895	phi-units	(0.7123 mm)
Skewness:	0.6093	dimensionless	
Kurtosis:	5.9845	dimensionless	
5th Moment:	14.1666	dimensionless	
6th Moment:	93.5827	dimensionless	
RARD *	0.3047	dimensionless	
Median	1.4622	phi	(0.363 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)



PB-02

