

Onshore Grab Sample

Sample: PI-47-BB
Sample Taken By: D. Phelps
Sample Collected On: 11/4/09
Splits? N/A

County: Pinellas
Latitude: 27° 37' 23.9"
Longitude: 82° 44' 15.3"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 50.158 grams
Total Fines in Sample 0.104 grams
Total Percent Fines 0.21 %

Dry Sieving Summary

Total Sample Weight 50.046 grams
Total Digested Weight 46.932 grams
Total Carbonate Weight 3.114 grams
Total Silica % 93.78 %
Total Carbonate % 6.22 %
Carbonate/Silica Ratio 0.066

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-47-BB

Total Sample Mass: 50.046 grams

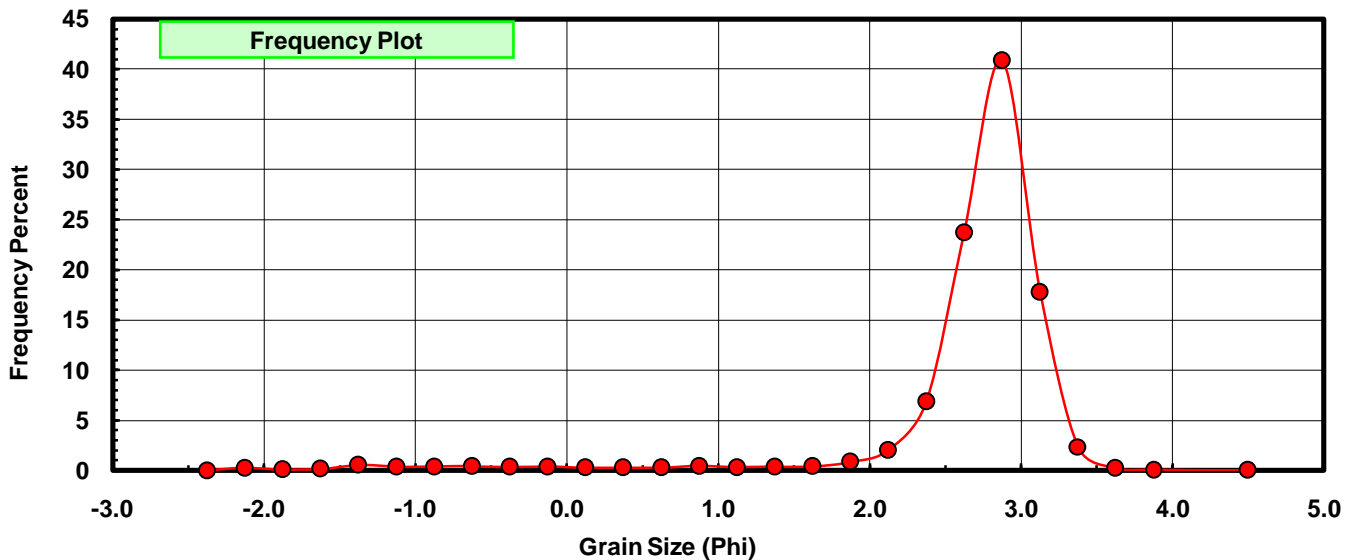
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.116	0.232	0.232
-1.75	-1.875	0.047	0.094	0.326
-1.50	-1.625	0.076	0.152	0.478
-1.25	-1.375	0.263	0.526	1.003
-1.00	-1.125	0.178	0.356	1.359
-0.75	-0.875	0.185	0.370	1.728
-0.50	-0.625	0.207	0.414	2.142
-0.25	-0.375	0.168	0.336	2.478
0.00	-0.125	0.187	0.374	2.851
0.25	0.125	0.135	0.270	3.121
0.50	0.375	0.138	0.276	3.397
0.75	0.625	0.143	0.286	3.683
1.00	0.875	0.210	0.420	4.102
1.25	1.125	0.152	0.304	4.406
1.50	1.375	0.181	0.362	4.768
1.75	1.625	0.207	0.414	5.181
2.00	1.875	0.427	0.853	6.034
2.25	2.125	1.013	2.024	8.059
2.50	2.375	3.428	6.850	14.908
2.75	2.625	11.867	23.712	38.620
3.00	2.875	20.473	40.908	79.529
3.25	3.125	8.912	17.808	97.336
3.50	3.375	1.183	2.364	99.700
3.75	3.625	0.114	0.228	99.928
4.00	3.875	0.029	0.058	99.986
5.00	4.50	0.007	0.014	100.000

Statistical Results			
Mean:	2.6617	phi	(0.158 mm)
Standard Dev:	0.7504	phi-units	(0.5944 mm)
Skewness:	-3.8845	dimensionless	
Kurtosis:	19.8281	dimensionless	
5th Moment:	-103.0034	dimensionless	
6th Moment:	554.7217	dimensionless	
RARD *	0.2819	dimensionless	
Median	2.6945	phi	(0.1545 mm)

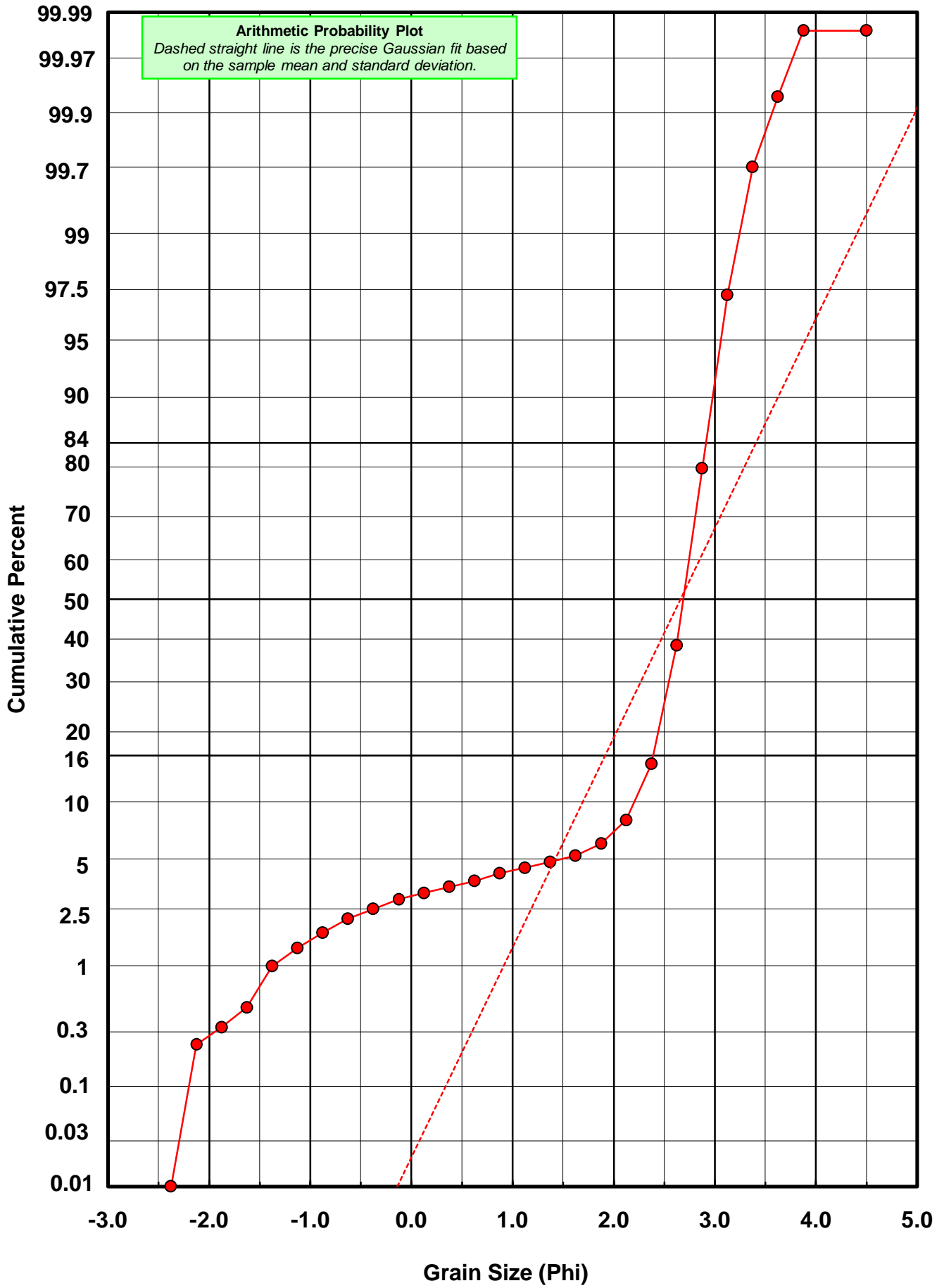
* RARD = reciprocal absolute relative dispersion (see below)

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-47-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PI-47-BB

Total Carbonate Mass: 4.283 grams

% Carbonate: 6.2 %

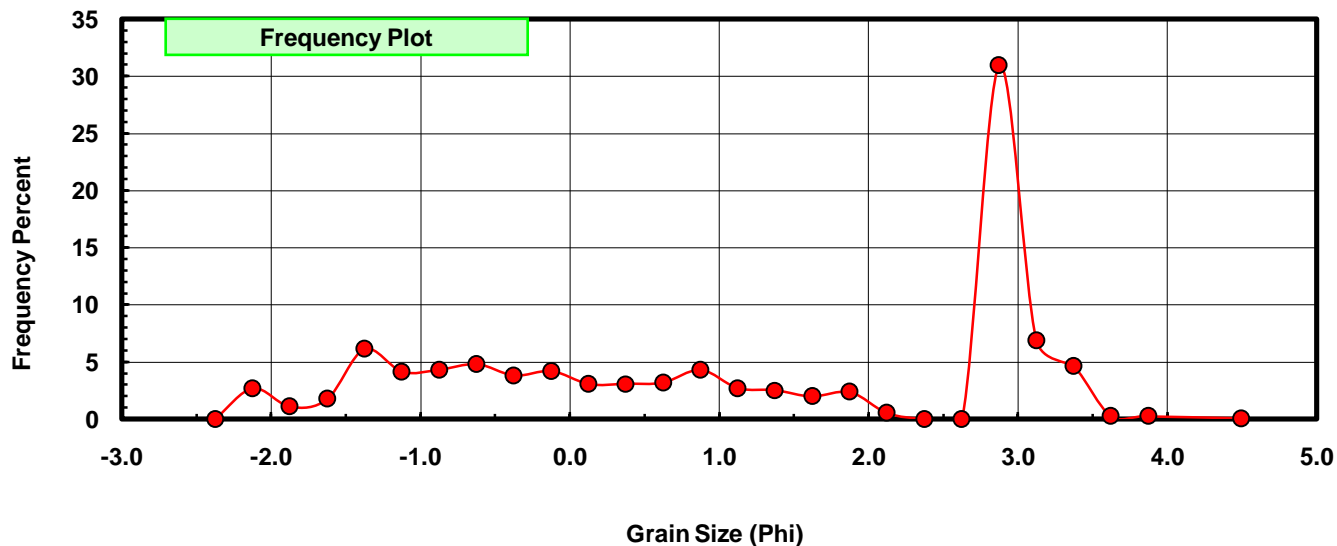
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.116	2.708	2.708
-1.75	-1.875	0.047	1.097	3.806
-1.50	-1.625	0.076	1.774	5.580
-1.25	-1.375	0.263	6.141	11.721
-1.00	-1.125	0.178	4.156	15.877
-0.75	-0.875	0.185	4.319	20.196
-0.50	-0.625	0.207	4.833	25.029
-0.25	-0.375	0.164	3.829	28.858
0.00	-0.125	0.180	4.203	33.061
0.25	0.125	0.132	3.082	36.143
0.50	0.375	0.133	3.105	39.248
0.75	0.625	0.137	3.199	42.447
1.00	0.875	0.185	4.319	46.766
1.25	1.125	0.116	2.708	49.475
1.50	1.375	0.109	2.545	52.020
1.75	1.625	0.086	2.008	54.028
2.00	1.875	0.102	2.382	56.409
2.25	2.125	0.023	0.537	56.946
2.50	2.375	0.000	0.000	56.946
2.75	2.625	0.000	0.000	56.946
3.00	2.875	1.325	30.936	87.882
3.25	3.125	0.296	6.911	94.793
3.50	3.375	0.198	4.623	99.416
3.75	3.625	0.011	0.257	99.673
4.00	3.875	0.011	0.257	99.930
5.00	4.500	0.003	0.070	100.000

Statistical Results			
Mean:	1.1855	phi	(0.4397 mm)
Standard Dev:	1.7799	phi-units	(0.2912 mm)
Skewness:	-0.2822	dimensionless	
Kurtosis:	1.5677	dimensionless	
5th Moment:	-1.1245	dimensionless	
6th Moment:	3.1859	dimensionless	
RARD *	1.5013	dimensionless	
Median	1.1766	phi	(0.4424 mm)

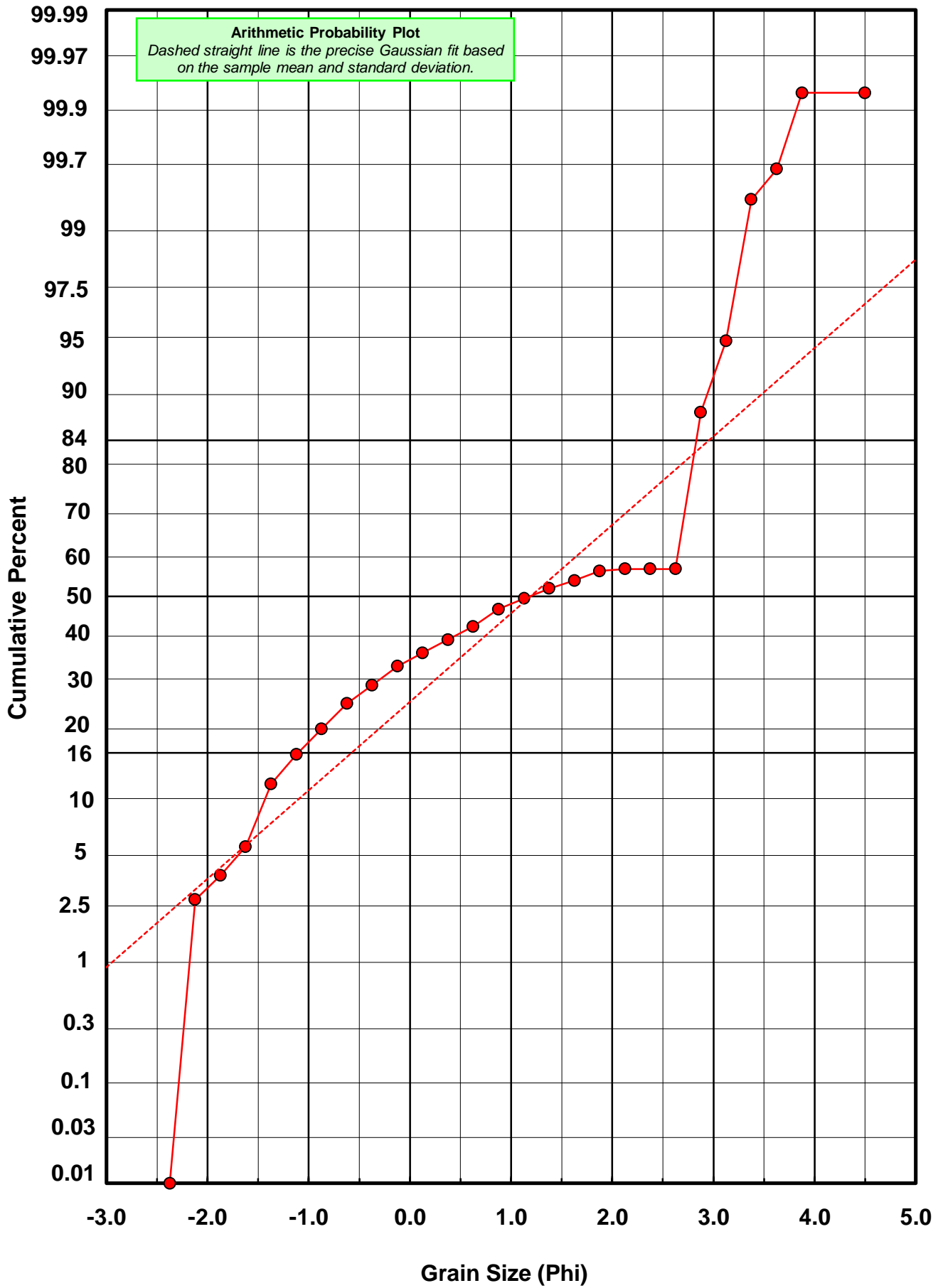
* RARD = reciprocal absolute relative dispersion (see below)

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-47-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-47-BB

Total Digested Mass: 46.932 grams

% Silica: 93.8 %

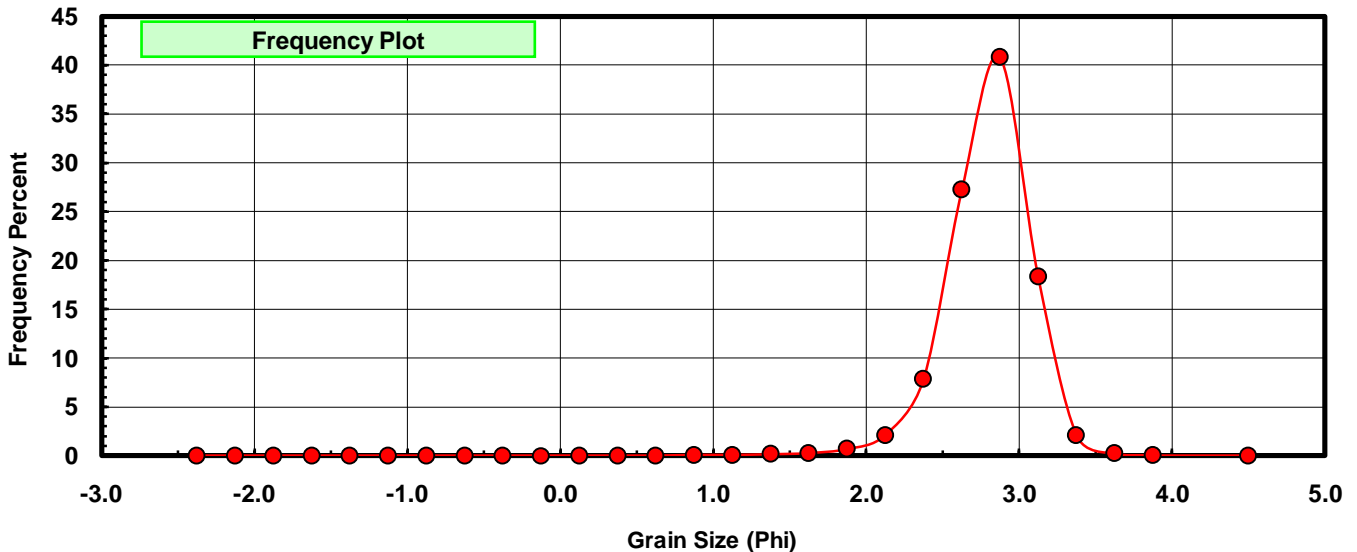
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.004	0.009	0.009
0.00	-0.125	0.007	0.015	0.023
0.25	0.125	0.003	0.006	0.030
0.50	0.375	0.005	0.011	0.040
0.75	0.625	0.006	0.013	0.053
1.00	0.875	0.025	0.053	0.107
1.25	1.125	0.036	0.077	0.183
1.50	1.375	0.072	0.153	0.337
1.75	1.625	0.121	0.258	0.594
2.00	1.875	0.325	0.692	1.287
2.25	2.125	0.990	2.109	3.396
2.50	2.375	3.676	7.833	11.229
2.75	2.625	12.788	27.248	38.477
3.00	2.875	19.148	40.799	79.276
3.25	3.125	8.616	18.358	97.635
3.50	3.375	0.985	2.099	99.734
3.75	3.625	0.103	0.219	99.953
4.00	3.875	0.018	0.038	99.991
5.00	4.500	0.004	0.009	100.000

Statistical Results			
Mean:	2.7941	phi	(0.1442 mm)
Standard Dev:	0.2920	phi-units	(0.8168 mm)
Skewness:	-1.3108	dimensionless	
Kurtosis:	10.1355	dimensionless	
5th Moment:	-59.9111	dimensionless	
6th Moment:	510.9019	dimensionless	
RARD *	0.1045	dimensionless	
Median	2.6956	phi	(0.1544 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-47-BB

