

Onshore Grab Sample

Sample: SA-21
Sample Taken By: D. Phelps
Sample Collected On: 12/15/09
Splits? N/A

County: Sarasota
Latitude: 27° 09' 51.5"
Longitude: 82° 29' 24.8"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	59.434 grams
Total Fines in Sample	0.212 grams
Total Percent Fines	0.36 %

Dry Sieving Summary

Total Sample Weight	59.289 grams
Total Digested Weight	10.986 grams
Total Carbonate Weight	48.303 grams
Total Silica %	18.53 %
Total Carbonate %	81.47 %
Carbonate/Silica Ratio	4.397

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SA-21

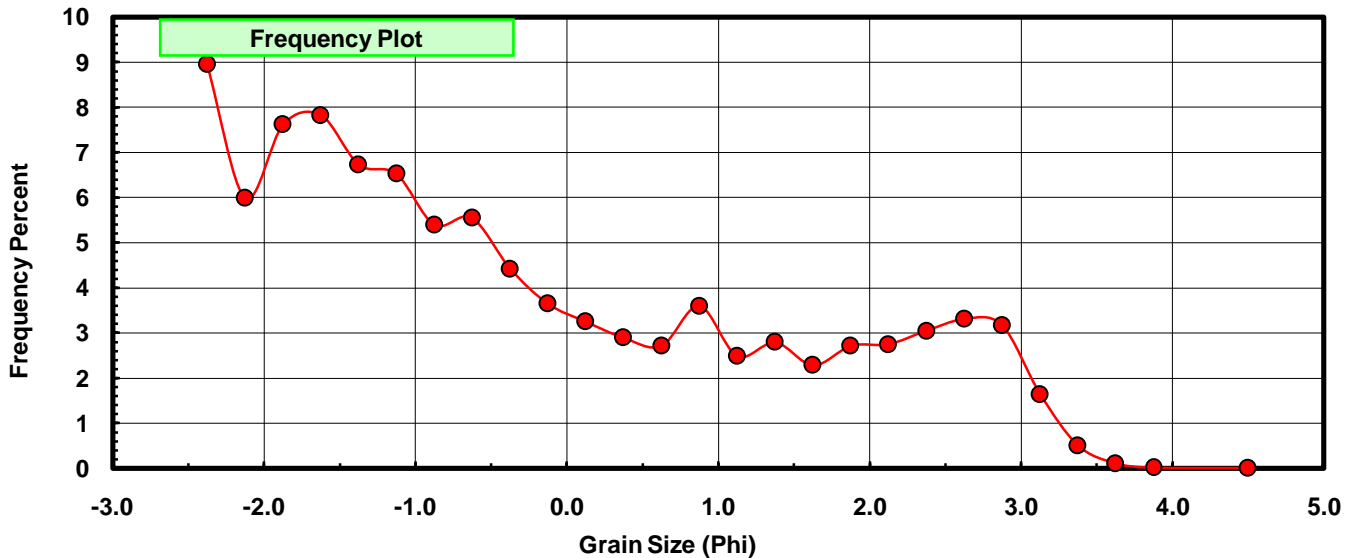
Total Sample Mass: 59.289 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	5.312	8.960	8.960
-2.00	-2.125	3.551	5.989	14.949
-1.75	-1.875	4.518	7.620	22.569
-1.50	-1.625	4.641	7.828	30.397
-1.25	-1.375	3.992	6.733	37.130
-1.00	-1.125	3.871	6.529	43.659
-0.75	-0.875	3.203	5.402	49.061
-0.50	-0.625	3.290	5.549	54.610
-0.25	-0.375	2.621	4.421	59.031
0.00	-0.125	2.164	3.650	62.681
0.25	0.125	1.929	3.254	65.935
0.50	0.375	1.718	2.898	68.832
0.75	0.625	1.607	2.710	71.543
1.00	0.875	2.134	3.599	75.142
1.25	1.125	1.477	2.491	77.633
1.50	1.375	1.657	2.795	80.428
1.75	1.625	1.356	2.287	82.715
2.00	1.875	1.609	2.714	85.429
2.25	2.125	1.629	2.748	88.177
2.50	2.375	1.806	3.046	91.223
2.75	2.625	1.963	3.311	94.534
3.00	2.875	1.882	3.174	97.708
3.25	3.125	0.975	1.644	99.352
3.50	3.375	0.299	0.504	99.857
3.75	3.625	0.066	0.111	99.968
4.00	3.875	0.012	0.020	99.988
5.00	4.50	0.007	0.012	100.000

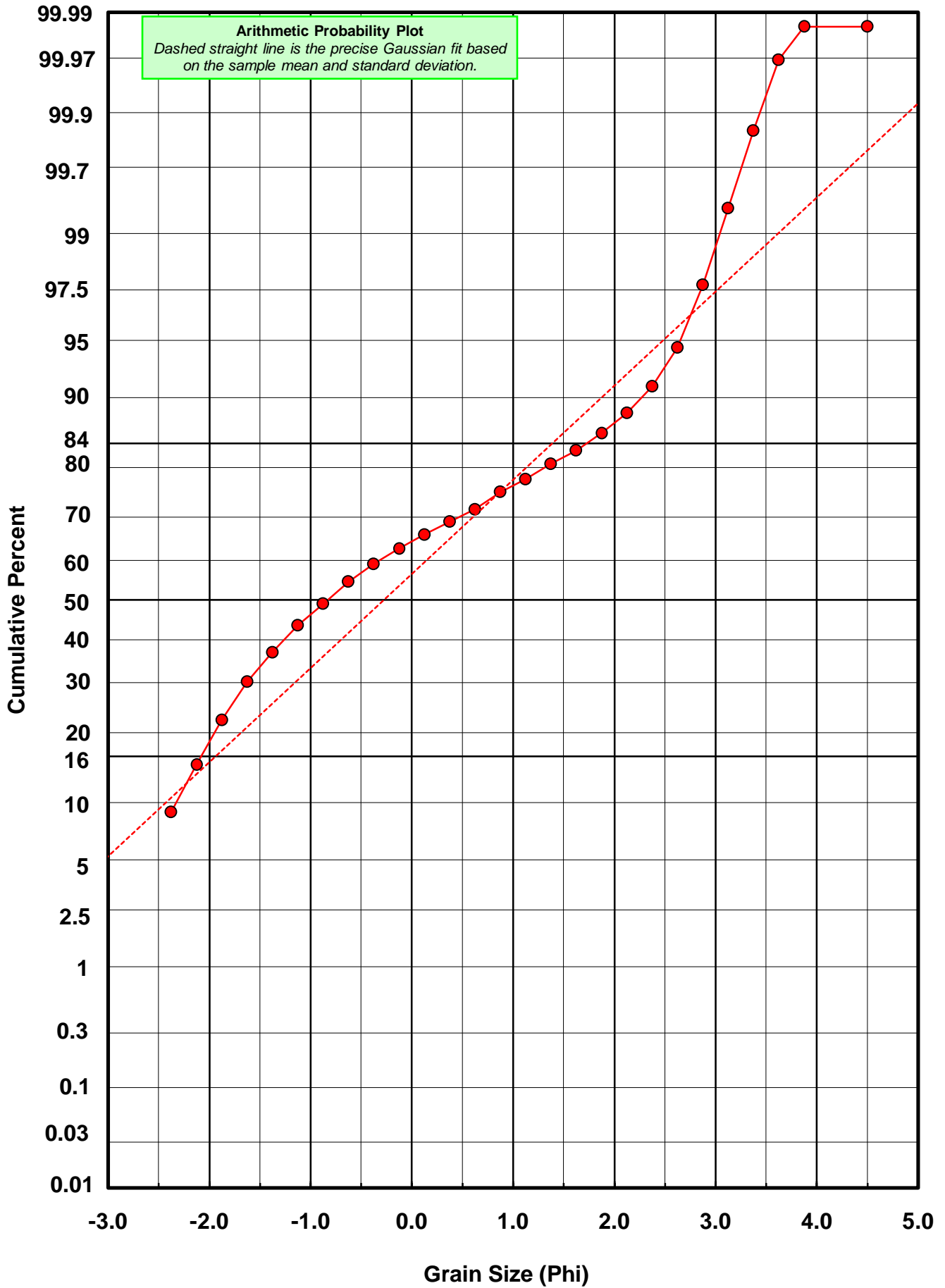
Statistical Results			
Mean:	-0.2787	phi	(1.2131 mm)
Standard Dev:	1.6755	phi-units	(0.3131 mm)
Skewness:	0.5644	dimensionless	
Kurtosis:	2.0655	dimensionless	
5th Moment:	2.4281	dimensionless	
6th Moment:	5.8612	dimensionless	
RARD *	6.0111	dimensionless	
Median	-0.8327	phi	(1.781 mm)
* RARD = reciprocal 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)



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Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SA-21

Total Carbonate Mass: 48.340 grams

% Carbonate: 81.5 %

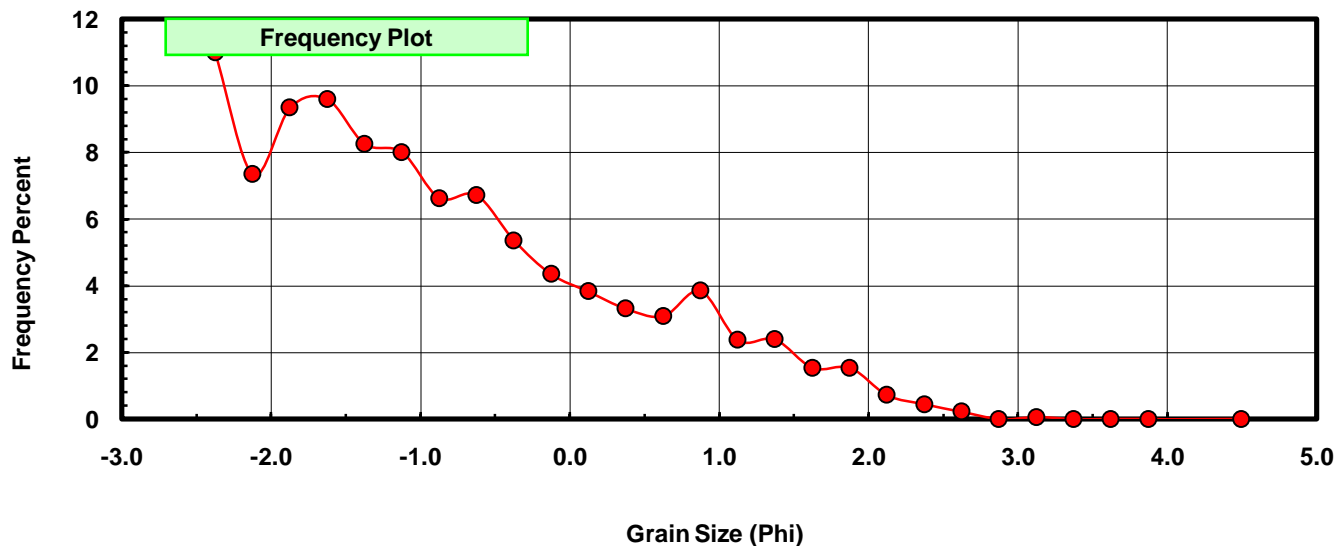
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	5.312	10.989	10.989
-2.00	-2.125	3.551	7.346	18.335
-1.75	-1.875	4.518	9.346	27.681
-1.50	-1.625	4.641	9.601	37.282
-1.25	-1.375	3.992	8.258	45.540
-1.00	-1.125	3.871	8.008	53.548
-0.75	-0.875	3.203	6.626	60.174
-0.50	-0.625	3.249	6.721	66.895
-0.25	-0.375	2.589	5.356	72.251
0.00	-0.125	2.106	4.357	76.607
0.25	0.125	1.853	3.833	80.441
0.50	0.375	1.604	3.318	83.759
0.75	0.625	1.492	3.086	86.845
1.00	0.875	1.861	3.850	90.695
1.25	1.125	1.146	2.371	93.066
1.50	1.375	1.159	2.398	95.463
1.75	1.625	0.745	1.541	97.005
2.00	1.875	0.746	1.543	98.548
2.25	2.125	0.349	0.722	99.270
2.50	2.375	0.214	0.443	99.712
2.75	2.625	0.108	0.223	99.936
3.00	2.875	0.000	0.000	99.936
3.25	3.125	0.028	0.058	99.994
3.50	3.375	0.000	0.000	99.994
3.75	3.625	0.003	0.006	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:	-0.8599	phi	(1.8149 mm)
Standard Dev:	1.2098	phi-units	(0.4323 mm)
Skewness:	0.7063	dimensionless	
Kurtosis:	2.6259	dimensionless	
5th Moment:	4.2296	dimensionless	
6th Moment:	11.3400	dimensionless	
RARD *	1.4069	dimensionless	
Median	-1.2358	phi	(2.3551 mm)

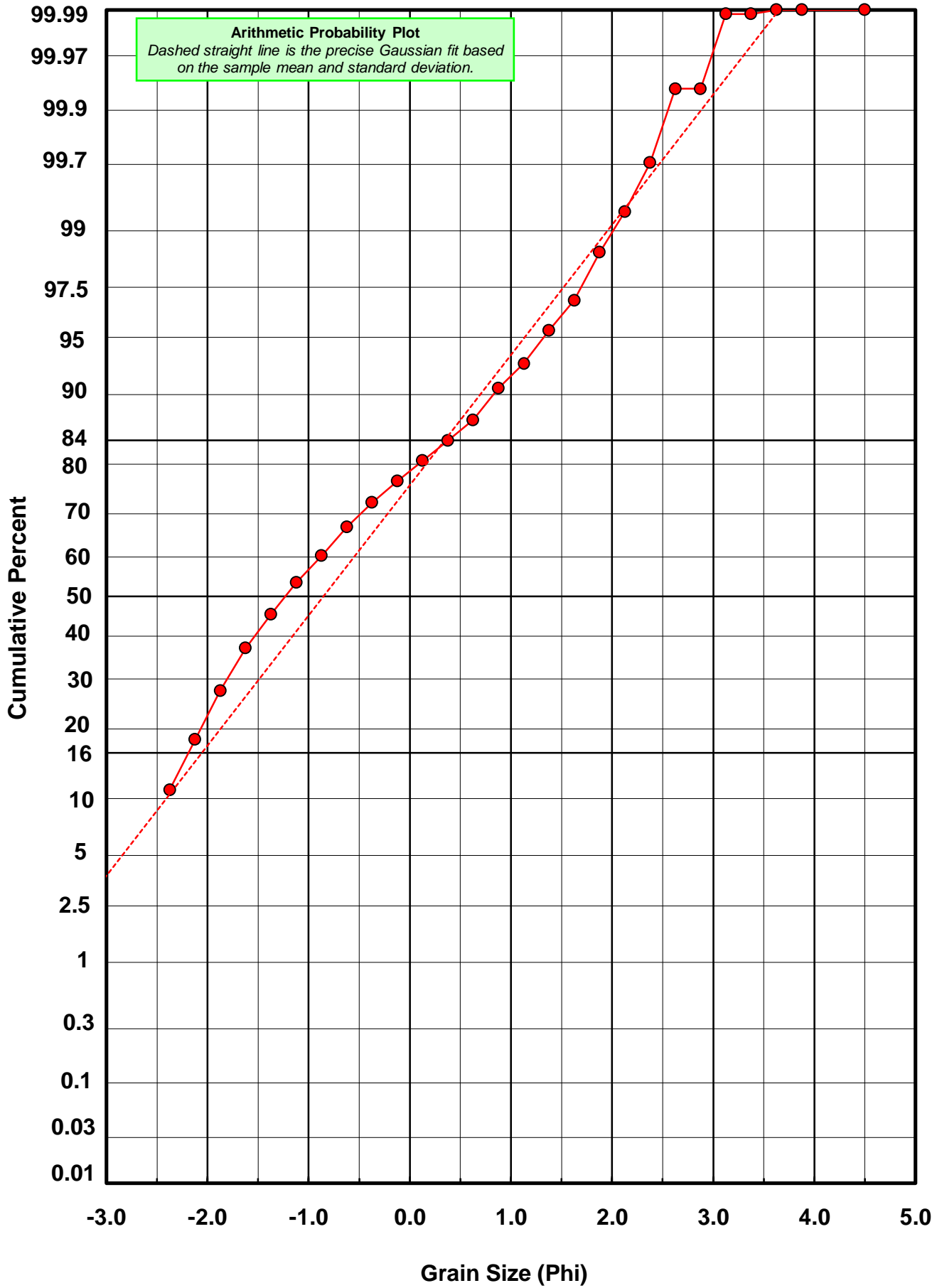
* RARD = reciprocal absolute relative dispersion (see below)

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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Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SA-21

Total Digested Mass: 10.986 grams

% Silica: 18.5 %

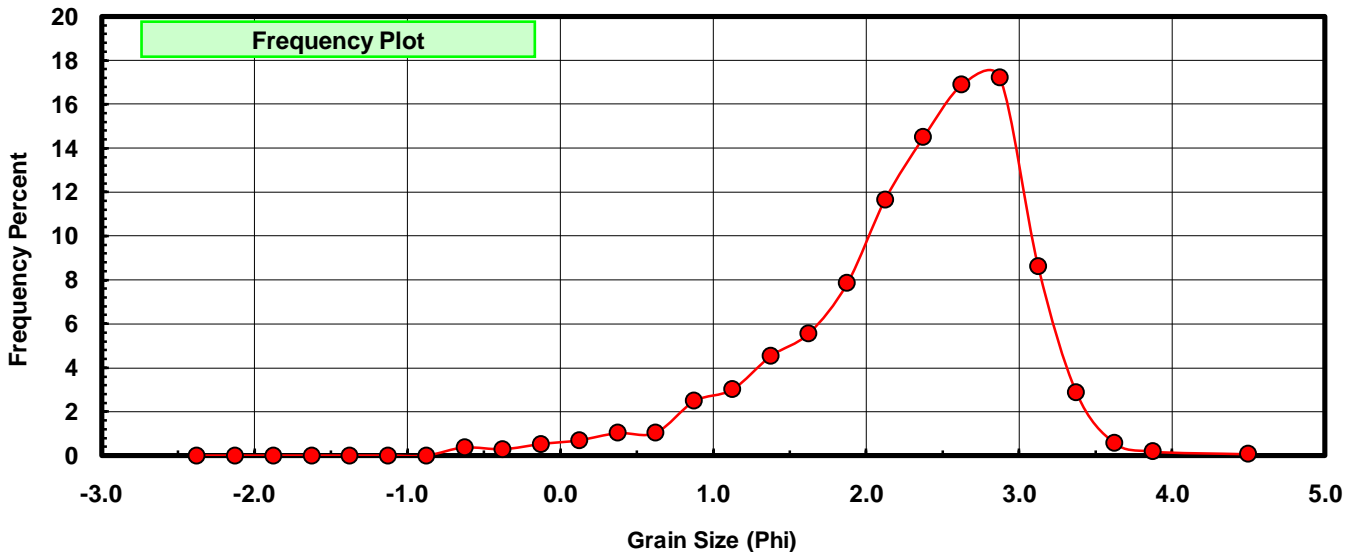
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.041	0.373	0.373
-0.25	-0.375	0.032	0.291	0.664
0.00	-0.125	0.058	0.528	1.192
0.25	0.125	0.076	0.692	1.884
0.50	0.375	0.114	1.038	2.922
0.75	0.625	0.115	1.047	3.969
1.00	0.875	0.273	2.485	6.454
1.25	1.125	0.331	3.013	9.467
1.50	1.375	0.498	4.533	14.000
1.75	1.625	0.611	5.562	19.561
2.00	1.875	0.863	7.855	27.417
2.25	2.125	1.280	11.651	39.068
2.50	2.375	1.592	14.491	53.559
2.75	2.625	1.855	16.885	70.444
3.00	2.875	1.892	17.222	87.666
3.25	3.125	0.947	8.620	96.286
3.50	3.375	0.316	2.876	99.163
3.75	3.625	0.063	0.573	99.736
4.00	3.875	0.021	0.191	99.927
5.00	4.500	0.008	0.073	100.000

Statistical Results			
Mean:	2.2909	phi	(0.2043 mm)
Standard Dev:	0.7737	phi-units	(0.5849 mm)
Skewness:	-1.0289	dimensionless	
Kurtosis:	4.0579	dimensionless	
5th Moment:	-9.5945	dimensionless	
6th Moment:	32.7236	dimensionless	
RARD *	0.3377	dimensionless	
Median	2.3136	phi	(0.2012 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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