

Onshore Grab Sample

Sample: DU-04-MB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Duval
Latitude: 30° 20' 50.5"
Longitude: 81° 23' 47.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	54.112 grams
Total Fines in Sample	0.431 grams
Total Percent Fines	0.79 %

Dry Sieving Summary

Total Sample Weight	53.648 grams
Total Digested Weight	52.794 grams
Total Carbonate Weight	0.854 grams
Total Silica %	98.41 %
Total Carbonate %	1.59 %
Carbonate/Silica Ratio	0.016

General Comments:

None

Description

Worked By: C. Fischler
Reviewed and Edited By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-04-MB

Total Sample Mass: 53.648 grams

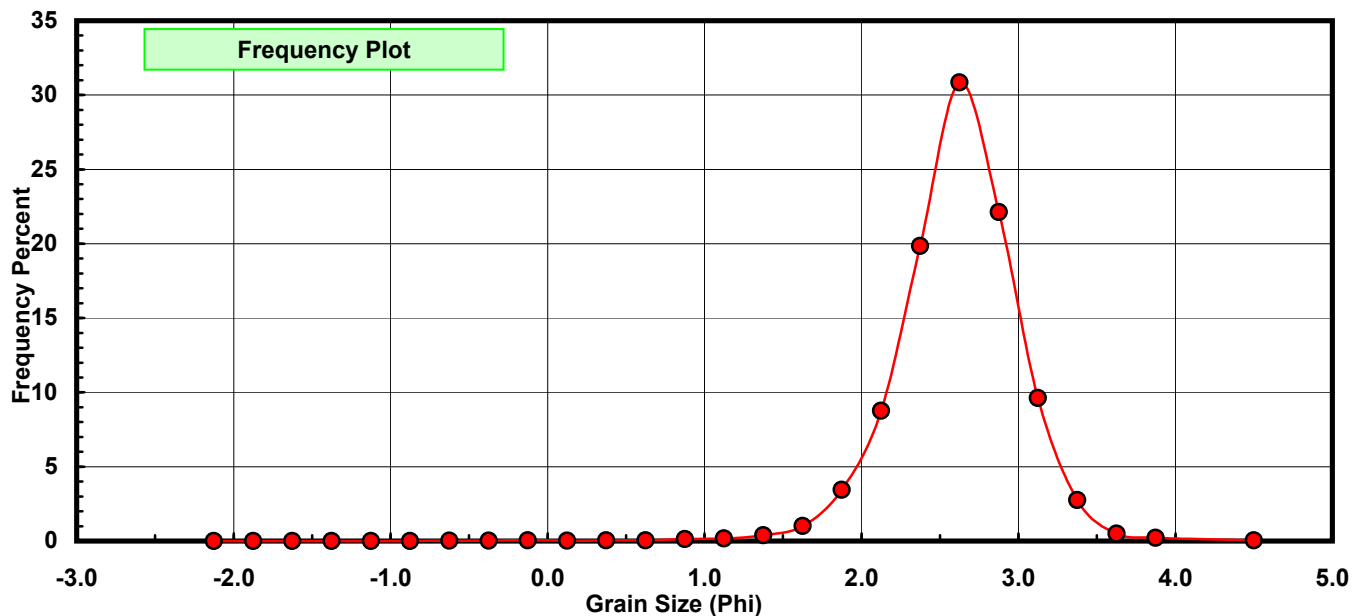
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.013	0.024	0.024
-0.25	-0.375	0.008	0.015	0.039
0.00	-0.125	0.020	0.037	0.076
0.25	0.125	0.013	0.024	0.101
0.50	0.375	0.020	0.037	0.138
0.75	0.625	0.024	0.045	0.183
1.00	0.875	0.066	0.123	0.306
1.25	1.125	0.093	0.173	0.479
1.50	1.375	0.205	0.382	0.861
1.75	1.625	0.547	1.020	1.881
2.00	1.875	1.842	3.433	5.314
2.25	2.125	4.695	8.751	14.066
2.50	2.375	10.645	19.842	33.908
2.75	2.625	16.552	30.853	64.761
3.00	2.875	11.866	22.118	86.879
3.25	3.125	5.160	9.618	96.498
3.50	3.375	1.480	2.759	99.256
3.75	3.625	0.261	0.487	99.743
4.00	3.875	0.117	0.218	99.961
5.00	4.500	0.021	0.039	100.000

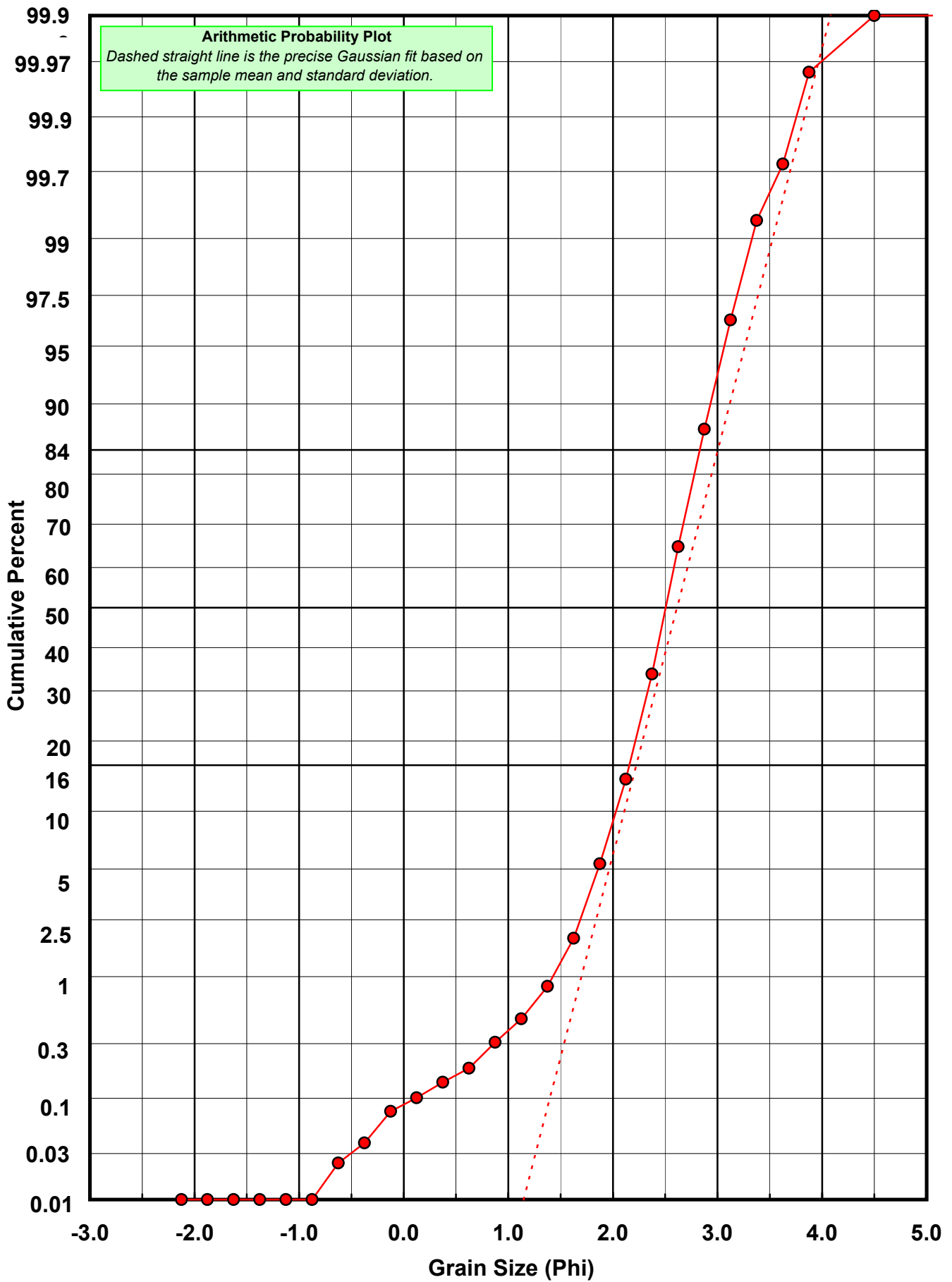
Statistical Results			
Mean:	2.6140	phi	(0.1633 mm)
Standard Dev:	0.3939	phi-units	(0.7611 mm)
Skewness:	-0.7749	dimensionless	
Kurtosis:	7.2826	dimensionless	
5th Moment:	-28.8668	dimensionless	
6th Moment:	217.6359	dimensionless	
RARD *	0.1507	dimensionless	
Median	2.5054	phi	(0.1761 mm)

* 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 Calculation Sheets	
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)





Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: DU-04-MB

Total Carbonate Mass: 1.159 grams

% Carbonate: 1.6 %

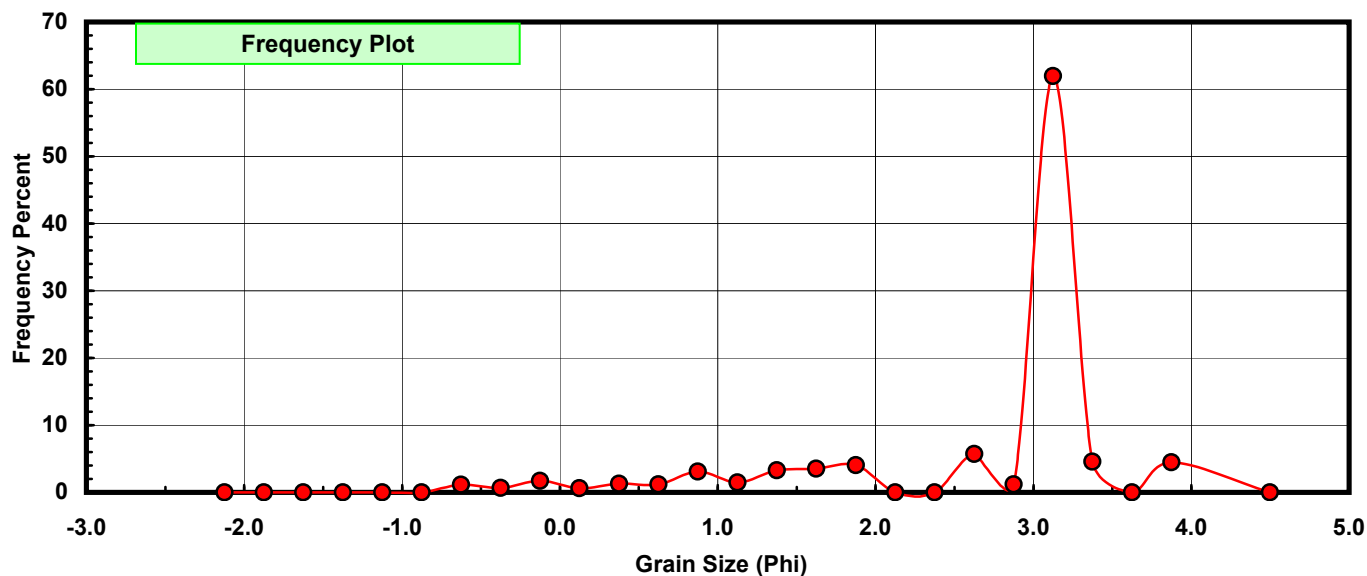
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.013	1.122	1.122
-0.25	-0.375	0.008	0.690	1.812
0.00	-0.125	0.020	1.726	3.538
0.25	0.125	0.007	0.604	4.142
0.50	0.375	0.015	1.294	5.436
0.75	0.625	0.014	1.208	6.644
1.00	0.875	0.036	3.106	9.750
1.25	1.125	0.017	1.467	11.217
1.50	1.375	0.038	3.279	14.495
1.75	1.625	0.041	3.538	18.033
2.00	1.875	0.047	4.055	22.088
2.25	2.125	0.000	0.000	22.088
2.50	2.375	0.000	0.000	22.088
2.75	2.625	0.066	5.695	27.783
3.00	2.875	0.014	1.208	28.991
3.25	3.125	0.718	61.950	90.940
3.50	3.375	0.053	4.573	95.513
3.75	3.625	0.000	0.000	95.513
4.00	3.875	0.052	4.487	100.000
5.00	4.500	0.000	0.000	100.000

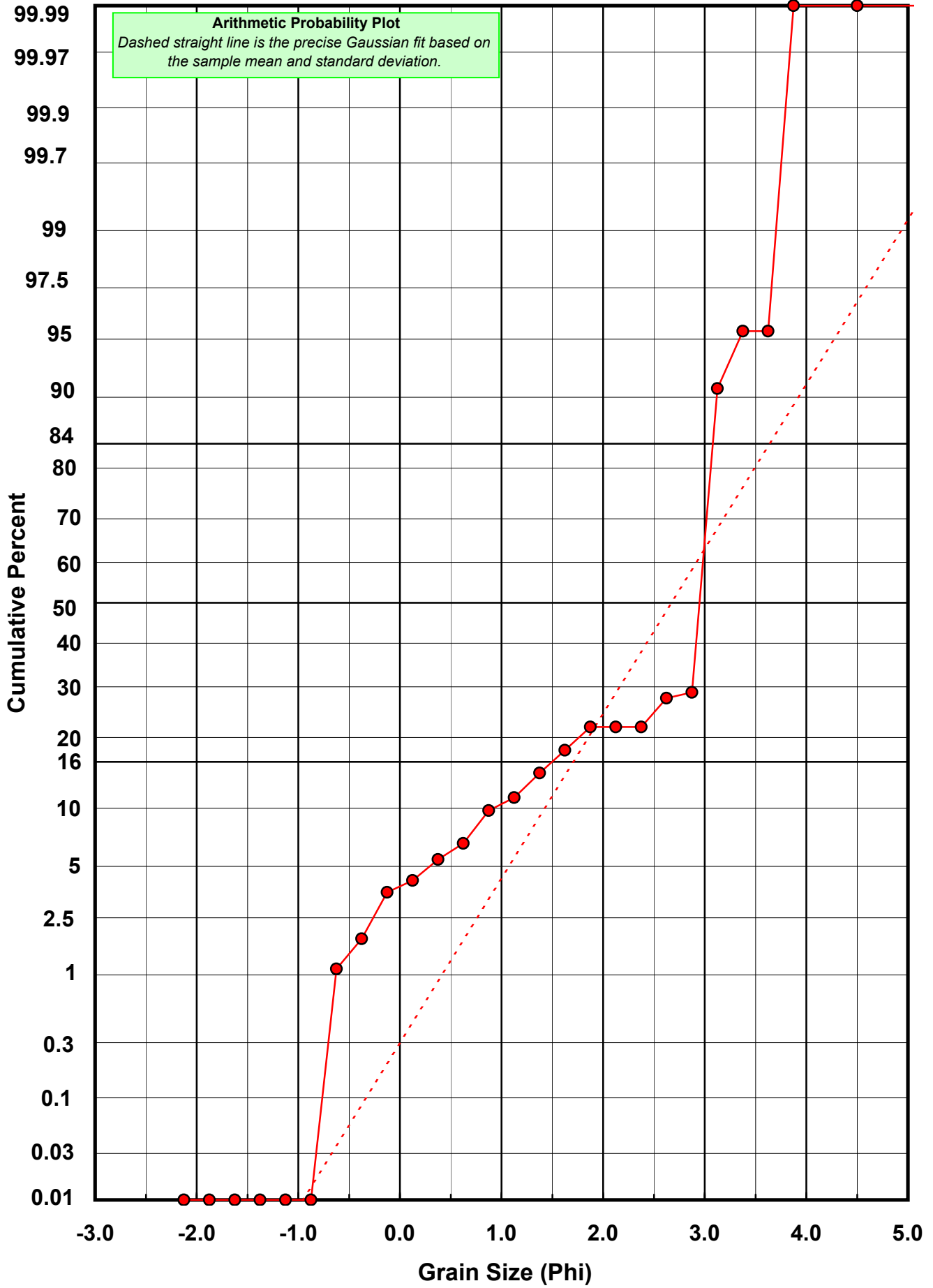
Statistical Results			
Mean:	2.6720	phi	(0.1569 mm)
Standard Dev:	0.9744	phi-units	(0.5089 mm)
Skewness:	-1.6761	dimensionless	
Kurtosis:	4.9850	dimensionless	
5th Moment:	-13.4370	dimensionless	
6th Moment:	40.0029	dimensionless	
RARD *	0.3647	dimensionless	
Median	2.9598	phi	(0.1285 mm)

* 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 Calculation Sheets	
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)





Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-04-MB

Total Digested Mass: 52.776 grams

% Silica: 98.4 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-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	0.000	0.000	0.000
0.25	0.125	0.006	0.011	0.011
0.50	0.375	0.005	0.009	0.021
0.75	0.625	0.010	0.019	0.040
1.00	0.875	0.030	0.057	0.097
1.25	1.125	0.076	0.144	0.241
1.50	1.375	0.167	0.316	0.557
1.75	1.625	0.506	0.959	1.516
2.00	1.875	1.795	3.401	4.917
2.25	2.125	4.703	8.911	13.828
2.50	2.375	10.906	20.665	34.493
2.75	2.625	16.486	31.238	65.731
3.00	2.875	11.852	22.457	88.188
3.25	3.125	4.442	8.417	96.605
3.50	3.375	1.427	2.704	99.308
3.75	3.625	0.300	0.568	99.877
4.00	3.875	0.065	0.123	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6114	phi	(0.1636 mm)
Standard Dev:	0.3689	phi-units	(0.7744 mm)
Skewness:	-0.3614	dimensionless	
Kurtosis:	4.3623	dimensionless	
5th Moment:	-7.3233	dimensionless	
6th Moment:	51.1377	dimensionless	
RARD *	0.1413	dimensionless	
Median	2.4991	phi	(0.1769 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 Calculation Sheets
Millimeter data calculated by $mm = 2^{(-\phi)}$

Reciprocal Absolute Relative Dispersion (RARD) Scale	
< 0.5	Excellent homogeneity (e.g., beaches)
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1.0 to 1.33	Fair homogeneity
> 1.33	Poor homogeneity (e.g., glacial)

