

Onshore Grab Sample

Sample: DU-18-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Duval
Latitude: 30° 24' 20.3"
Longitude: 81° 24' 9.5"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	51.589 grams
Total Fines in Sample	0.553 grams
Total Percent Fines	1.06 %

Dry Sieving Summary

Total Sample Weight	51.018 grams
Total Digested Weight	50.321 grams
Total Carbonate Weight	0.697 grams
Total Silica %	98.63 %
Total Carbonate %	1.37 %
Carbonate/Silica Ratio	0.014

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-18-SS

Total Sample Mass: 51.018 grams

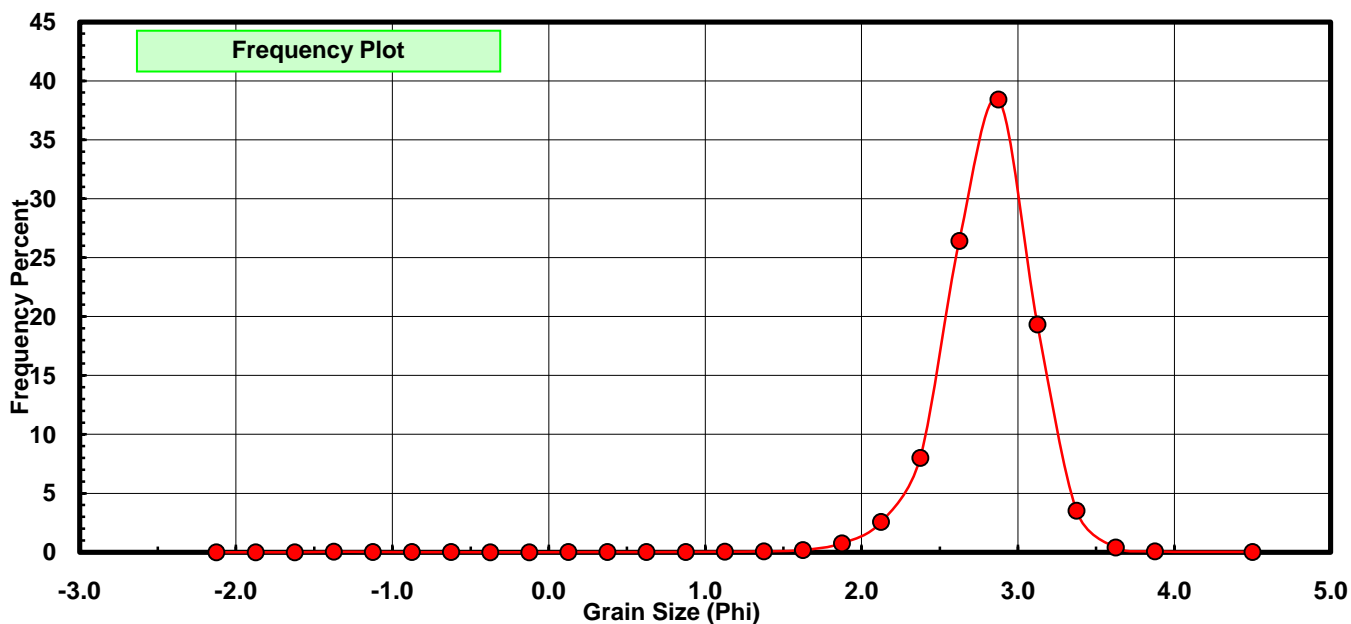
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.021	0.041	0.041
-1.00	-1.125	0.015	0.029	0.071
-0.75	-0.875	0.004	0.008	0.078
-0.50	-0.625	0.004	0.008	0.086
-0.25	-0.375	0.000	0.000	0.086
0.00	-0.125	0.001	0.002	0.088
0.25	0.125	0.005	0.010	0.098
0.50	0.375	0.009	0.018	0.116
0.75	0.625	0.007	0.014	0.129
1.00	0.875	0.014	0.027	0.157
1.25	1.125	0.023	0.045	0.202
1.50	1.375	0.039	0.076	0.278
1.75	1.625	0.099	0.194	0.472
2.00	1.875	0.388	0.761	1.233
2.25	2.125	1.306	2.560	3.793
2.50	2.375	4.087	8.011	11.804
2.75	2.625	13.480	26.422	38.226
3.00	2.875	19.605	38.428	76.653
3.25	3.125	9.855	19.317	95.970
3.50	3.375	1.795	3.518	99.488
3.75	3.625	0.209	0.410	99.898
4.00	3.875	0.037	0.073	99.971
5.00	4.500	0.015	0.029	100.000

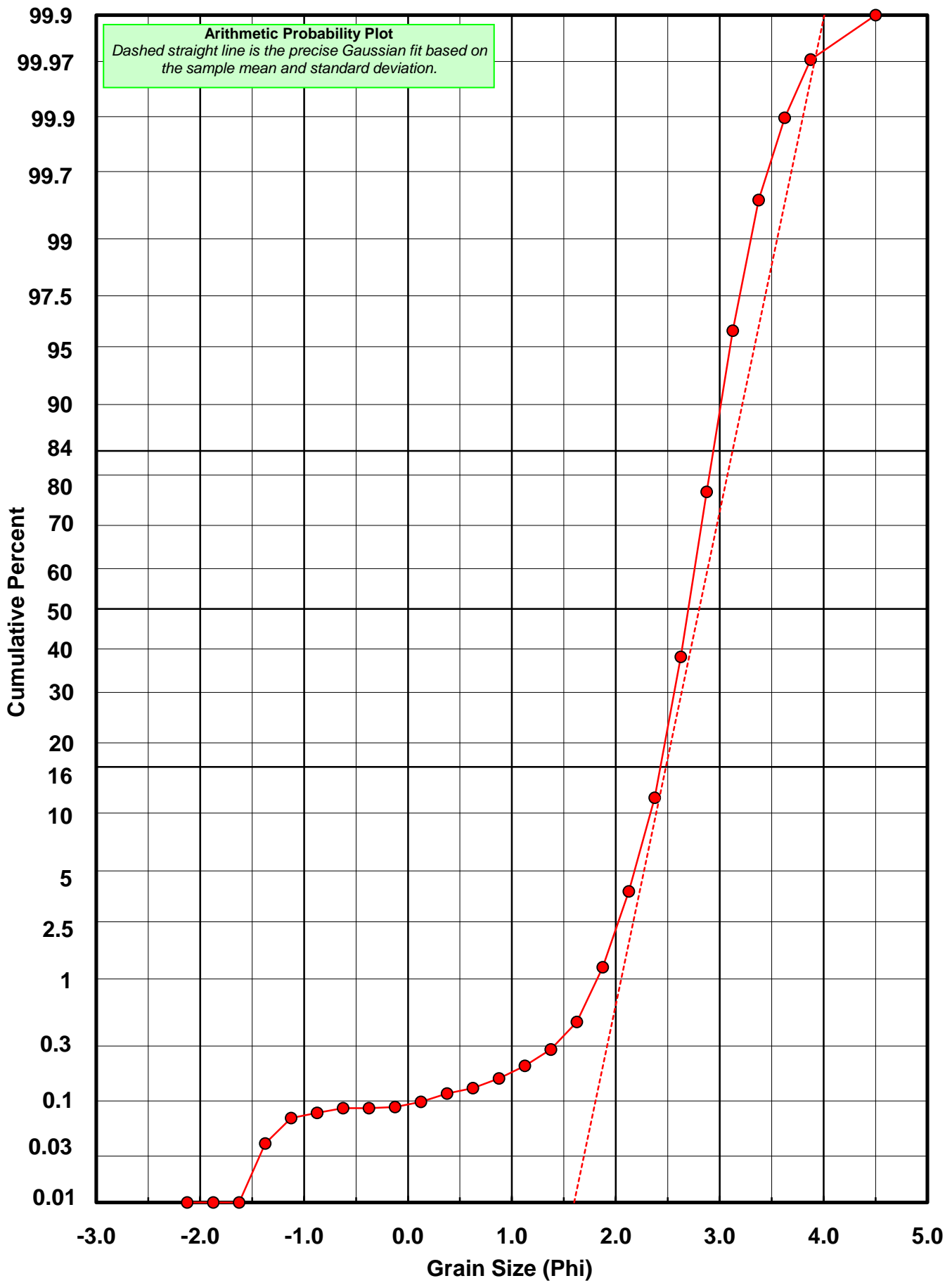
Statistical Results			
Mean:	2.8028	phi	(0.1433 mm)
Standard Dev:	0.3228	phi-units	(0.7995 mm)
Skewness:	-2.2649	dimensionless	
Kurtosis:	25.8967	dimensionless	
5th Moment:	-276.7172	dimensionless	
6th Moment:	3375.3568	dimensionless	
RARD *	0.1152	dimensionless	
Median	2.7016	phi	(0.1537 mm)

* 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-18-SS

Total Carbonate Mass: 1.503 grams

% Carbonate: 1.4 %

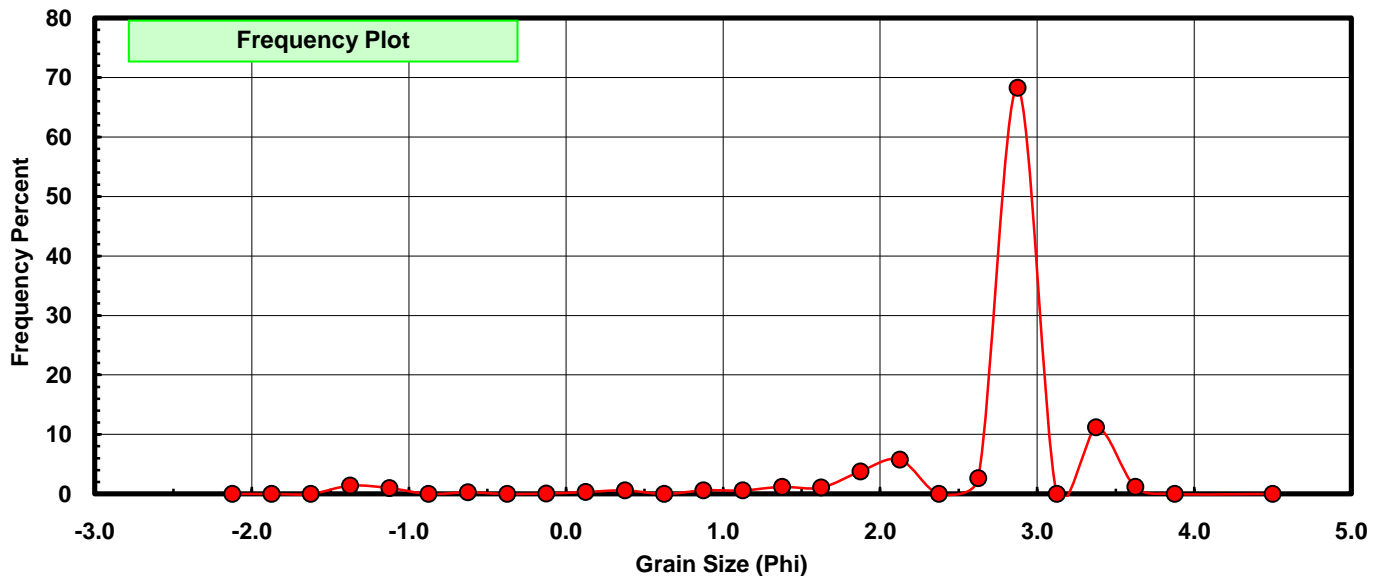
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.021	1.397	1.397
-1.00	-1.125	0.015	0.998	2.395
-0.75	-0.875	0.000	0.000	2.395
-0.50	-0.625	0.004	0.266	2.661
-0.25	-0.375	0.000	0.000	2.661
0.00	-0.125	0.001	0.067	2.728
0.25	0.125	0.005	0.333	3.061
0.50	0.375	0.009	0.599	3.659
0.75	0.625	0.000	0.000	3.659
1.00	0.875	0.009	0.599	4.258
1.25	1.125	0.009	0.599	4.857
1.50	1.375	0.018	1.198	6.055
1.75	1.625	0.016	1.065	7.119
2.00	1.875	0.057	3.792	10.912
2.25	2.125	0.087	5.788	16.700
2.50	2.375	0.000	0.000	16.700
2.75	2.625	0.040	2.661	19.361
3.00	2.875	1.026	68.263	87.625
3.25	3.125	0.000	0.000	87.625
3.50	3.375	0.168	11.178	98.802
3.75	3.625	0.018	1.198	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

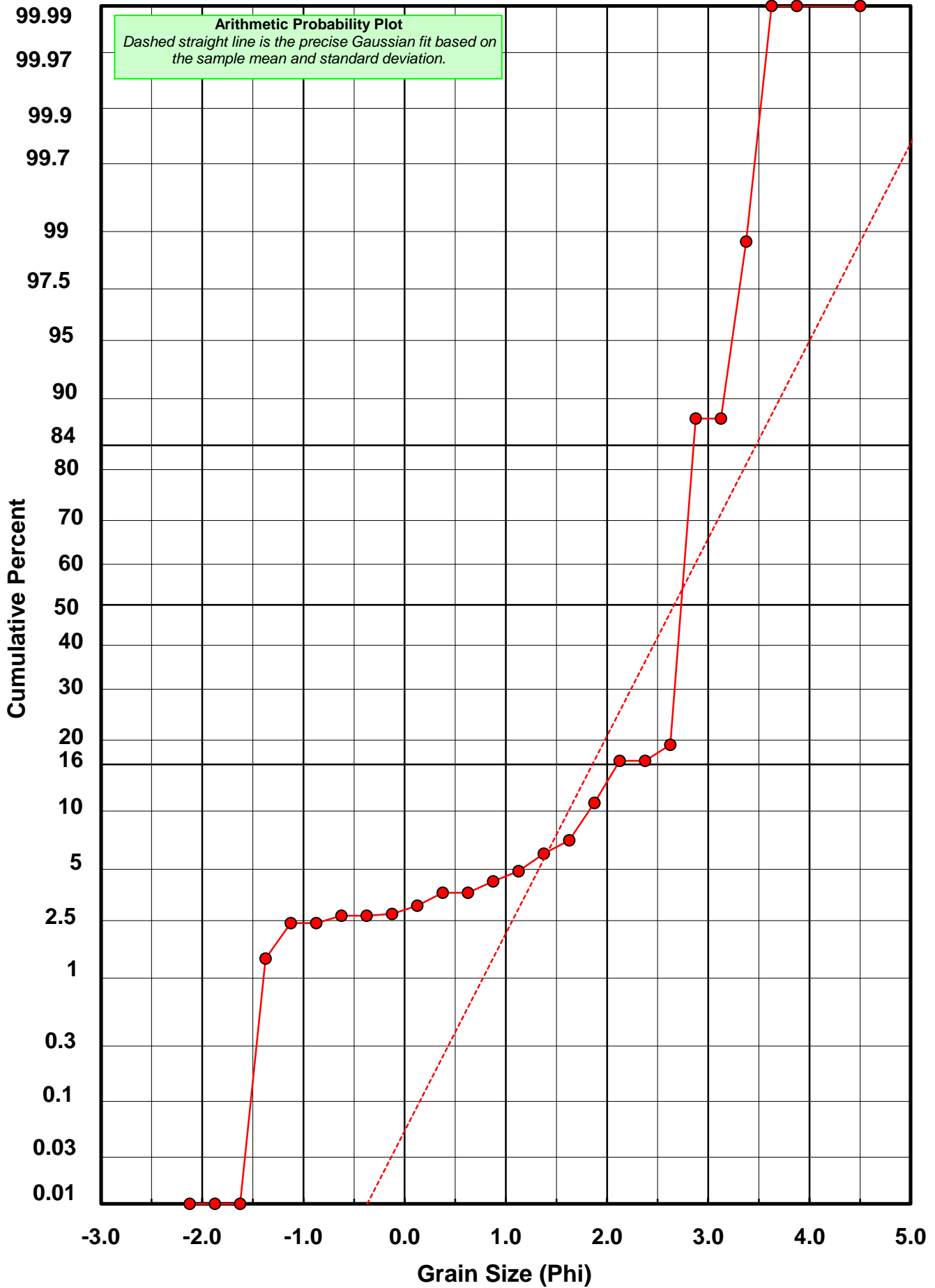
Statistical Results			
Mean:	2.6634	phi	(0.1578 mm)
Standard Dev:	0.8131	phi-units	(0.5692 mm)
Skewness:	-3.2774	dimensionless	
Kurtosis:	15.1574	dimensionless	
5th Moment:	-69.9367	dimensionless	
6th Moment:	331.8859	dimensionless	
RARD *	0.3053	dimensionless	
Median	2.7372	phi	(0.15 mm)

* 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-18-SS

Total Digested Mass: 50.309 grams

% Silica: 98.6 %

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	0.011	0.022	0.022
-0.50	-0.625	0.000	0.000	0.022
-0.25	-0.375	0.000	0.000	0.022
0.00	-0.125	0.000	0.000	0.022
0.25	0.125	0.000	0.000	0.022
0.50	0.375	0.000	0.000	0.022
0.75	0.625	0.010	0.020	0.042
1.00	0.875	0.005	0.010	0.052
1.25	1.125	0.014	0.028	0.080
1.50	1.375	0.021	0.042	0.121
1.75	1.625	0.083	0.165	0.286
2.00	1.875	0.331	0.658	0.944
2.25	2.125	1.219	2.423	3.367
2.50	2.375	4.879	9.698	13.065
2.75	2.625	13.440	26.715	39.780
3.00	2.875	18.579	36.930	76.710
3.25	3.125	9.861	19.601	96.311
3.50	3.375	1.627	3.234	99.545
3.75	3.625	0.191	0.380	99.924
4.00	3.875	0.038	0.076	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.7991	phi	(0.1437 mm)
Standard Dev:	0.2987	phi-units	(0.813 mm)
Skewness:	-0.9184	dimensionless	
Kurtosis:	9.5356	dimensionless	
5th Moment:	-73.9008	dimensionless	
6th Moment:	844.9600	dimensionless	
RARD *	0.1067	dimensionless	
Median	2.6942	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 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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