Quality Control Statistical Summary
Onshore Grab Sample: DU-01-BB

Sample Taken By:	J. Ladner	**Latitude:**	30° 23' 29.8"
Sample Taken On:	12/04/02	**Longitude:**	81° 23' 40.7"
County:	Duval	**Datum:**	WGS 84

Statistical Results: Pre-CaCO3						
	Duplicate			Original		
Mean:	1.7257	phi	(0.3024 mm)	1.7308	phi	(0.3013 mm)
Standard Dev:	0.5658	phi-units	(0.6756 mm)	0.5851	phi-units	(0.6666 mm)
Skewness:	0.1764	dimensionless		0.1489	dimensionless	
Kurtosis:	3.2670	dimensionless		3.1978	dimensionless	
5th Moment:	0.6828	dimensionless		0.2979	dimensionless	
6th Moment:	23.4844	dimensionless		22.1592	dimensionless	
RARD*:	0.3279	dimensionless		0.3381	dimensionless	
Median:	1.5729	phi	(0.3361 mm)	1.5737	phi	(0.336 mm)

Statistical Results: CaCO3						
	Duplicate			Original		
Mean:	1.1930	phi	(0.4374 mm)	1.4360	phi	(0.3696 mm)
Standard Dev:	0.7474	phi-units	(0.5957 mm)	0.8693	phi-units	(0.5474 mm)
Skewness:	0.1707	dimensionless		-0.0145	dimensionless	
Kurtosis:	3.5499	dimensionless		2.9100	dimensionless	
5th Moment:	2.0485	dimensionless		-0.4748	dimensionless	
6th Moment:	24.2218	dimensionless		13.9062	dimensionless	
RARD*:	0.6265	dimensionless		0.6053	dimensionless	
Median:	0.9677	phi	(0.5113 mm)	1.3858	phi	(0.3827 mm)

Statistical Results: Post-CaCO3						
	Duplicate			Original		
Mean:	1.7513	phi	(0.297 mm)	1.7469	phi	(0.2979 mm)
Standard Dev:	0.5456	phi-units	(0.6851 mm)	0.5603	phi-units	(0.6782 mm)
Skewness:	0.3721	dimensionless		0.3068	dimensionless	
Kurtosis:	2.9679	dimensionless		2.8238	dimensionless	
5th Moment:	3.6557	dimensionless		2.7936	dimensionless	
6th Moment:	17.7423	dimensionless		14.6298	dimensionless	
RARD*:	0.3115	dimensionless		0.3207	dimensionless	
Median:	1.5868	phi	(0.3329 mm)	1.5917	phi	(0.3318 mm)

Additional Data	
Total Fines	
Original:	0.07 %
Duplicate:	0.25 %
Total Carbonates	
Original:	4.61 %
Duplicate:	4.11 %

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	
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)

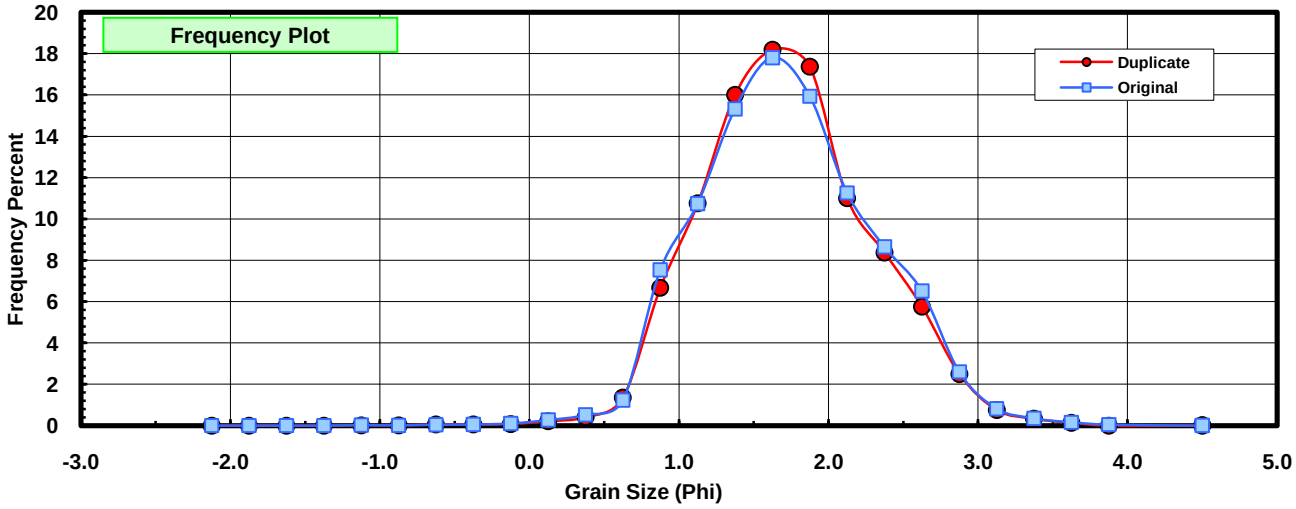
Pre-Digestion Grain Size Distribution

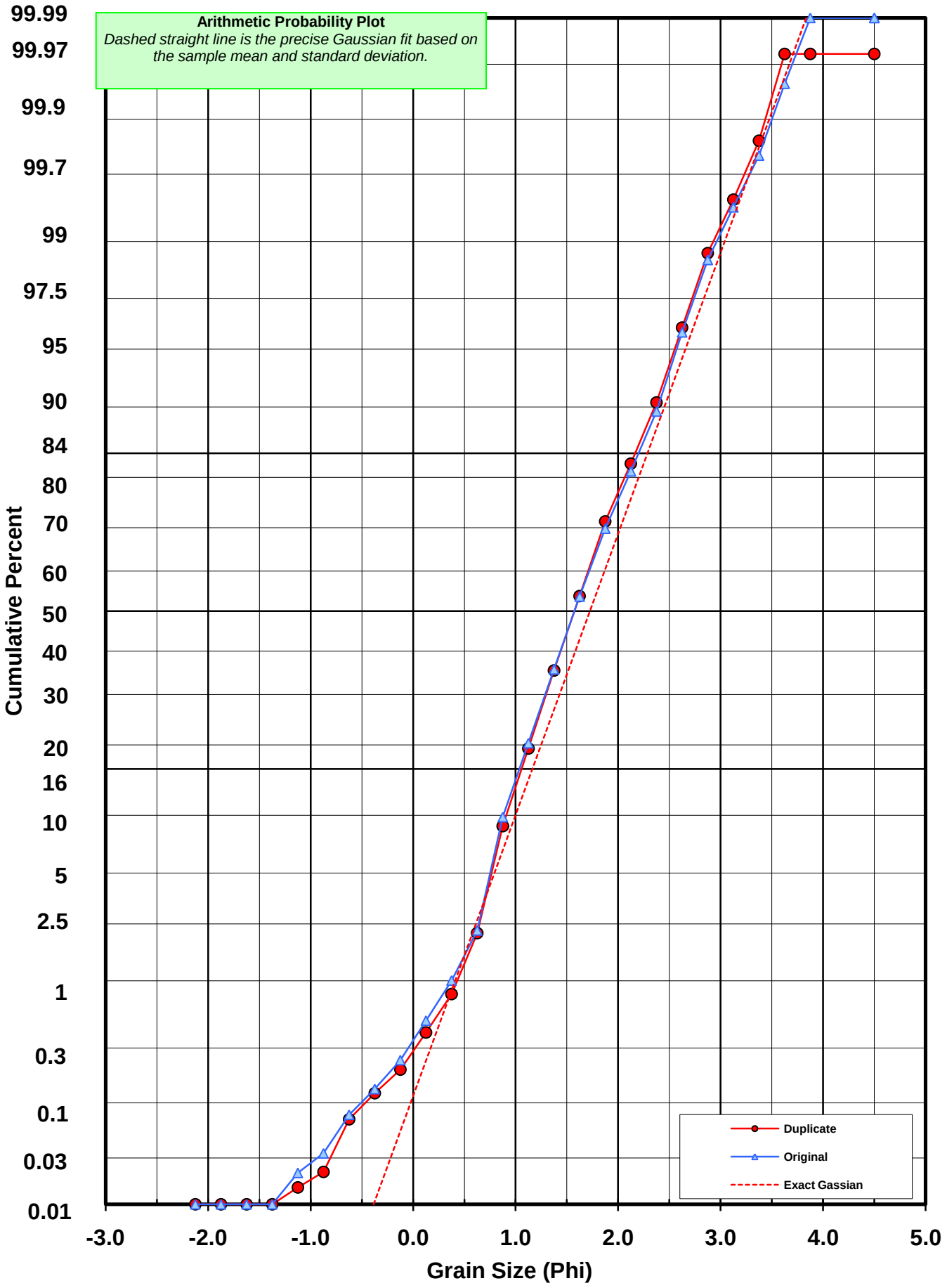
Onshore Grab Sample: DU-01-BB

Total Duplicate Sample Mass: 46.251 grams

Total Original Sample Mass: 52.344 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight of Dupl (grams)	Freq Weight %	Cumulative Weight %	Weight of Original (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000	0.000	0.000	0.000
-1.00	-1.125	0.006	0.013	0.013	0.011	0.021	0.021
-0.75	-0.875	0.004	0.009	0.022	0.007	0.013	0.034
-0.50	-0.625	0.023	0.050	0.071	0.023	0.044	0.078
-0.25	-0.375	0.023	0.050	0.121	0.028	0.054	0.132
0.00	-0.125	0.034	0.074	0.195	0.054	0.103	0.235
0.25	0.125	0.096	0.208	0.402	0.140	0.268	0.503
0.50	0.375	0.189	0.409	0.811	0.272	0.520	1.022
0.75	0.625	0.626	1.353	2.164	0.644	1.231	2.253
1.00	0.875	3.084	6.668	8.832	3.942	7.532	9.785
1.25	1.125	4.972	10.750	19.582	5.620	10.738	20.523
1.50	1.375	7.406	16.013	35.595	8.021	15.326	35.849
1.75	1.625	8.415	18.194	53.789	9.319	17.806	53.655
2.00	1.875	8.030	17.362	71.151	8.341	15.937	69.593
2.25	2.125	5.087	10.999	82.150	5.892	11.258	80.851
2.50	2.375	3.871	8.370	90.519	4.527	8.650	89.501
2.75	2.625	2.660	5.751	96.270	3.411	6.518	96.018
3.00	2.875	1.154	2.495	98.765	1.363	2.604	98.622
3.25	3.125	0.347	0.750	99.516	0.429	0.820	99.442
3.50	3.375	0.153	0.331	99.846	0.184	0.352	99.794
3.75	3.625	0.060	0.130	99.976	0.083	0.159	99.952
4.00	3.875	0.000	0.000	99.976	0.025	0.048	100.000
5.00	4.500	0.000	0.000	99.976	0.000	0.000	100.000
5.00	4.500	0.011	0.024	100.000	0.008	0.015	100.015



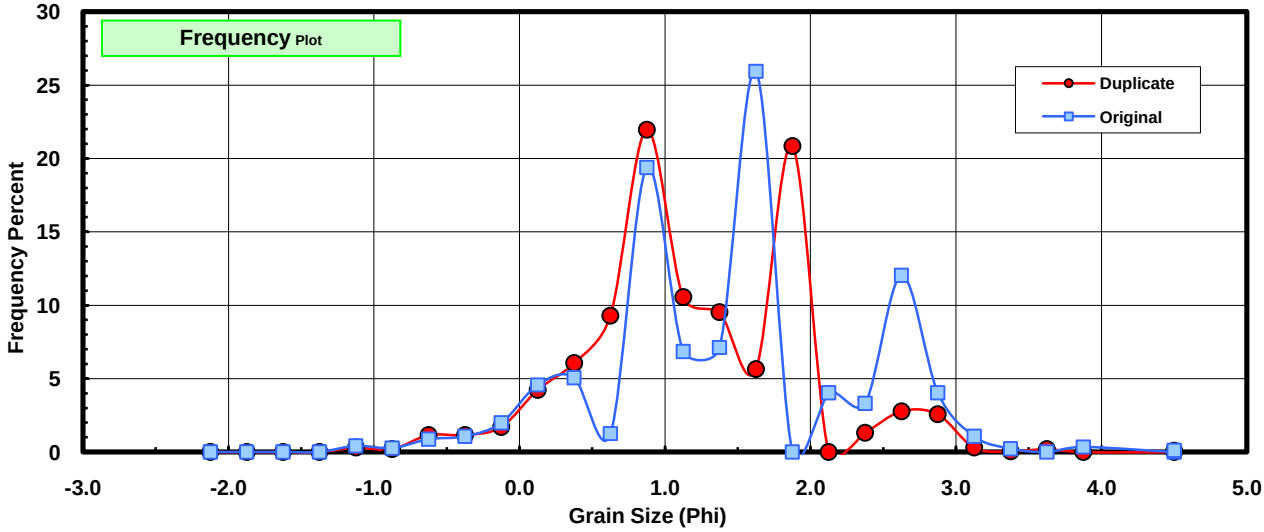

Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)
Duplicate
Original
Exact Gassian

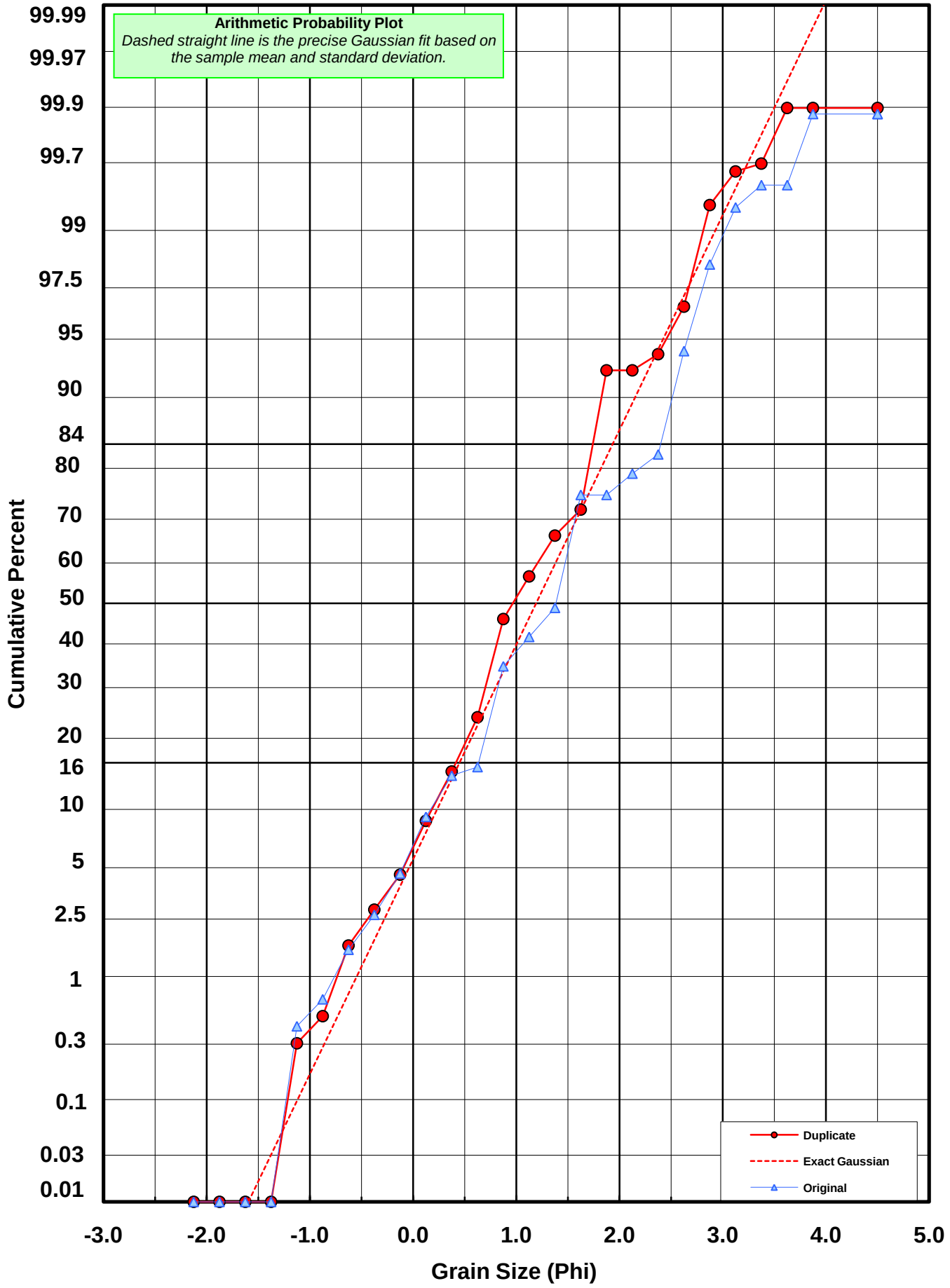
Carbonate Grain Size Distribution

Onshore Grab Sample: DU-01-BB

Total Duplicate Carbonate Mass:	1.981 grams
% Carbonate in Duplicate:	4.1 %
Total Original Carbonate Mass:	2.625 grams
% Carbonate in Original:	4.6 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight of Dupl (grams)	Freq Weight %	Cumulative Weight %	Weight of Original (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000	0.000	0.000	0.000
-1.00	-1.125	0.006	0.303	0.303	0.011	0.419	0.419
-0.75	-0.875	0.004	0.202	0.505	0.007	0.267	0.686
-0.50	-0.625	0.023	1.161	1.666	0.023	0.876	1.562
-0.25	-0.375	0.023	1.161	2.827	0.028	1.067	2.629
0.00	-0.125	0.034	1.716	4.543	0.052	1.981	4.610
0.25	0.125	0.084	4.240	8.783	0.120	4.571	9.181
0.50	0.375	0.120	6.058	14.841	0.133	5.067	14.248
0.75	0.625	0.184	9.288	24.129	0.033	1.257	15.505
1.00	0.875	0.435	21.959	46.088	0.509	19.390	34.895
1.25	1.125	0.209	10.550	56.638	0.180	6.857	41.752
1.50	1.375	0.189	9.541	66.179	0.187	7.124	48.876
1.75	1.625	0.112	5.654	71.832	0.681	25.943	74.819
2.00	1.875	0.413	20.848	92.680	0.000	0.000	74.819
2.25	2.125	0.000	0.000	92.680	0.106	4.038	78.857
2.50	2.375	0.026	1.312	93.993	0.087	3.314	82.171
2.75	2.625	0.055	2.776	96.769	0.316	12.038	94.210
3.00	2.875	0.051	2.574	99.344	0.106	4.038	98.248
3.25	3.125	0.006	0.303	99.647	0.028	1.067	99.314
3.50	3.375	0.001	0.050	99.697	0.006	0.229	99.543
3.75	3.625	0.004	0.202	99.899	0.000	0.000	99.543
4.00	3.875	0.000	0.000	99.899	0.009	0.343	99.886
5.00	4.500	0.000	0.000	99.899	0.000	0.000	99.886
5.00	4.500	0.002	0.101	100.000	0.003	0.114	100.000



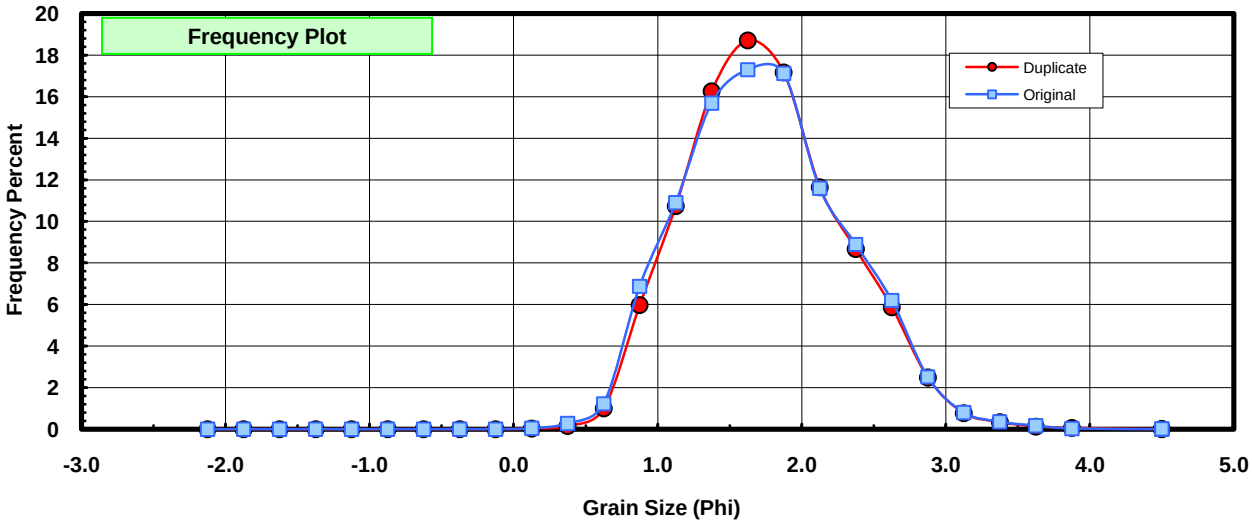

Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)
Duplicate
Exact Gaussian
Original

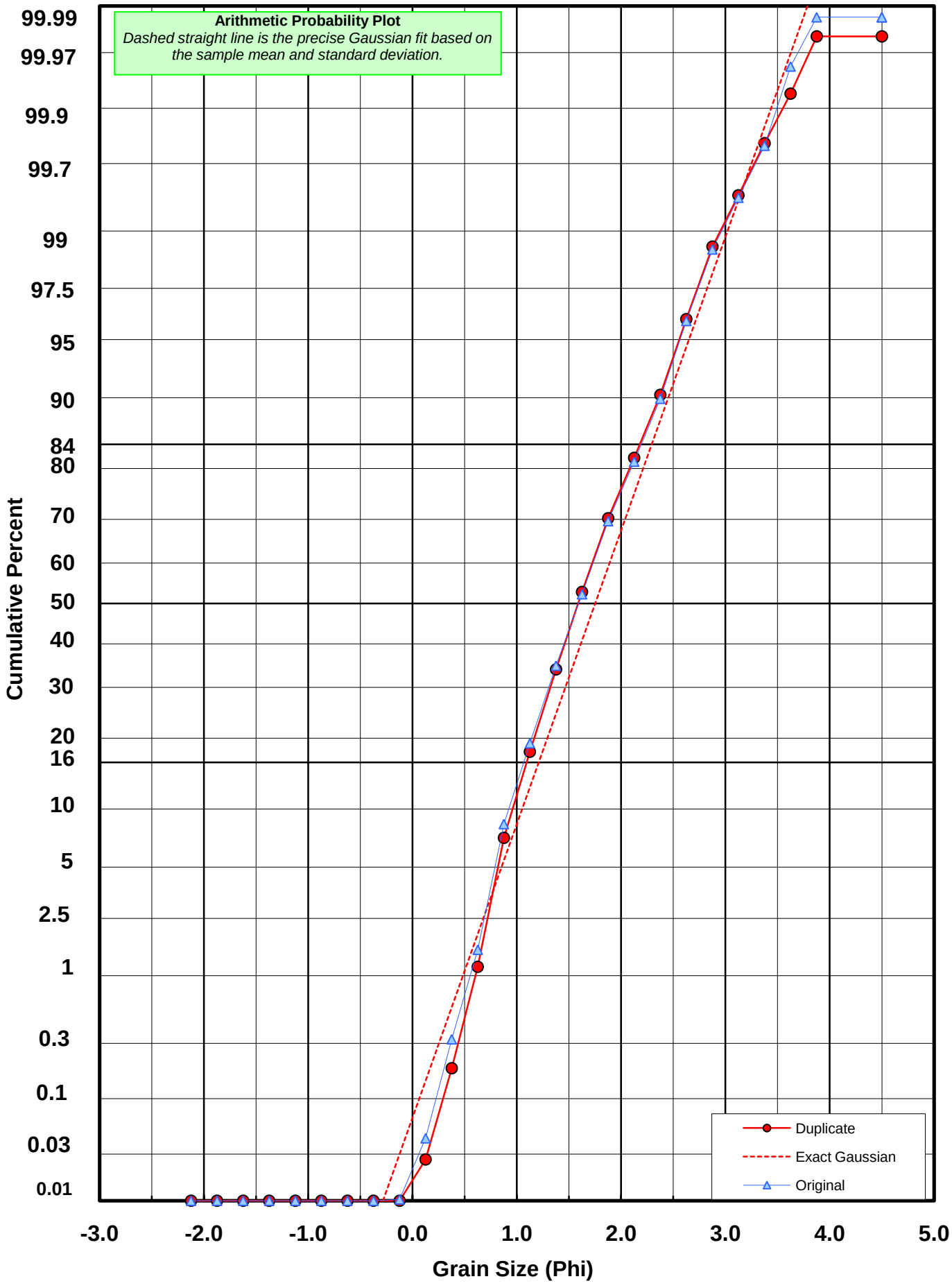
Post-Digestion Grain Size Distribution

Onshore Grab Sample: DU-01-BB

Total Duplicate Digested Mass:	44.372 grams
% Silica in Duplicate:	95.9 %
Total Original Digested Mass:	49.930 grams
% Silica in Original:	95.4 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %	Weight of Original (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000	0.002	0.004	0.004
0.25	0.125	0.012	0.027	0.027	0.020	0.040	0.044
0.50	0.375	0.069	0.156	0.183	0.139	0.278	0.322
0.75	0.625	0.442	0.996	1.179	0.611	1.224	1.546
1.00	0.875	2.649	5.970	7.149	3.433	6.876	8.422
1.25	1.125	4.763	10.734	17.883	5.440	10.895	19.317
1.50	1.375	7.217	16.265	34.148	7.834	15.690	35.007
1.75	1.625	8.303	18.712	52.860	8.638	17.300	52.307
2.00	1.875	7.617	17.166	70.026	8.551	17.126	69.433
2.25	2.125	5.165	11.640	81.666	5.786	11.588	81.021
2.50	2.375	3.845	8.665	90.332	4.440	8.892	89.914
2.75	2.625	2.605	5.871	96.203	3.095	6.199	96.113
3.00	2.875	1.103	2.486	98.688	1.257	2.518	98.630
3.25	3.125	0.341	0.769	99.457	0.401	0.803	99.433
3.50	3.375	0.152	0.343	99.799	0.178	0.356	99.790
3.75	3.625	0.056	0.126	99.926	0.084	0.168	99.958
4.00	3.875	0.024	0.054	99.980	0.016	0.032	99.990
5.00	4.500	0.000	0.000	99.980	0.000	0.000	99.990
5.00	4.500	0.009	0.020	100.000	0.005	0.010	100.000




Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)
Duplicate
Exact Gaussian
Original