

Quality Control Statistical Summary

Onshore Grab Sample: DU-11-MB

Sample Taken By: J. Ladner
 Sample Taken On: 12/04/02
 County: Duval

Latitude: 30° 30' 28.0"
 Longitude: 81° 27' 14.2"
 Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	2.5614	phi (0.1694 mm)	2.5453	phi (0.1713 mm)
Standard Dev:	0.2994	phi-units (0.8126 mm)	0.2990	phi-units (0.8128 mm)
Skewness:	-1.1594	dimensionless	-0.5261	dimensionless
Kurtosis:	14.4649	dimensionless	5.7288	dimensionless
5th Moment:	#####	dimensionless	-18.5967	dimensionless
6th Moment:	#####	dimensionless	170.5791	dimensionless
RARD*:	0.1169	dimensionless	0.1175	dimensionless
Median:	2.4564	phi (0.1822 mm)	2.4407	phi (0.1842 mm)

Statistical Results: CaCO3				
	Duplicate		Original	
Mean:	2.3315	phi (0.1987 mm)	2.2757	phi (0.2065 mm)
Standard Dev:	0.7900	phi-units (0.5784 mm)	0.2228	phi-units (0.8569 mm)
Skewness:	-3.0455	dimensionless	-7.0480	dimensionless
Kurtosis:	14.1452	dimensionless	76.8622	dimensionless
5th Moment:	-61.6408	dimensionless	#####	dimensionless
6th Moment:	276.1943	dimensionless	#####	dimensionless
RARD*:	0.3388	dimensionless	0.0979	dimensionless
Median:	2.1241	phi (0.2294 mm)	2.1848	phi (0.2199 mm)

Statistical Results: Post-CaCO3				
	Duplicate		Original	
Mean:	2.5622	phi (0.1693 mm)	2.5673	phi (0.1687 mm)
Standard Dev:	0.2908	phi-units (0.8175 mm)	0.3005	phi-units (0.812 mm)
Skewness:	-0.3320	dimensionless	-0.4464	dimensionless
Kurtosis:	4.9542	dimensionless	4.6532	dimensionless
5th Moment:	-5.8226	dimensionless	-6.2292	dimensionless
6th Moment:	87.7709	dimensionless	62.9806	dimensionless
RARD*:	0.1135	dimensionless	0.1170	dimensionless
Median:	2.4550	phi (0.1824 mm)	2.4640	phi (0.1812 mm)

Additional Data	
Total Fines	
Original:	1.02 %
Duplicate:	1.16 %
Total Carbonates	
Original:	0.68 %
Duplicate:	0.48 %

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)

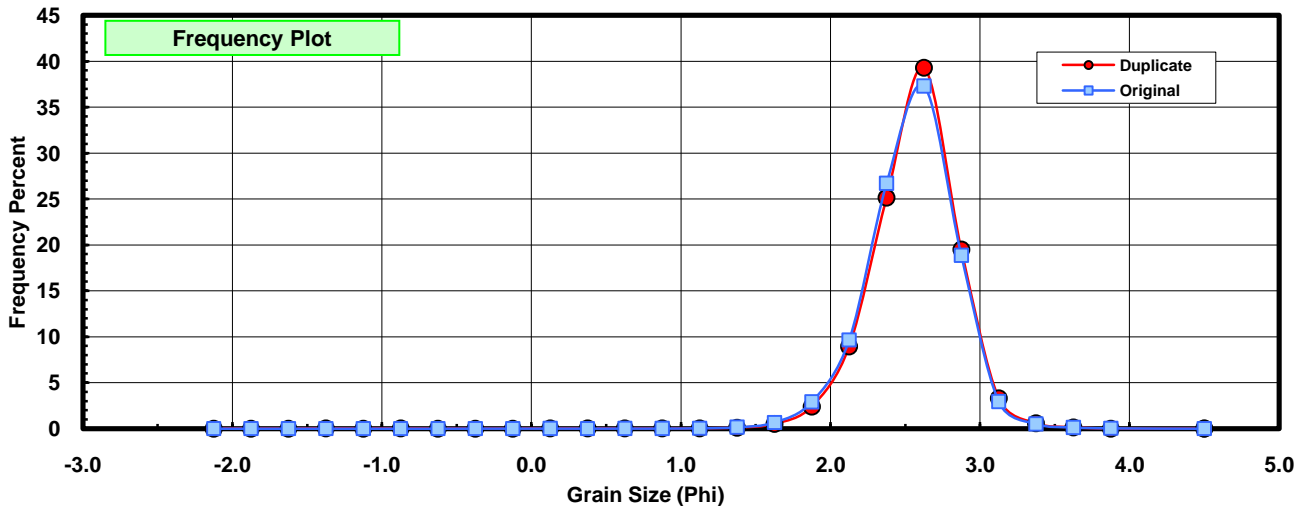
Pre-Digestion Grain Size Distribution

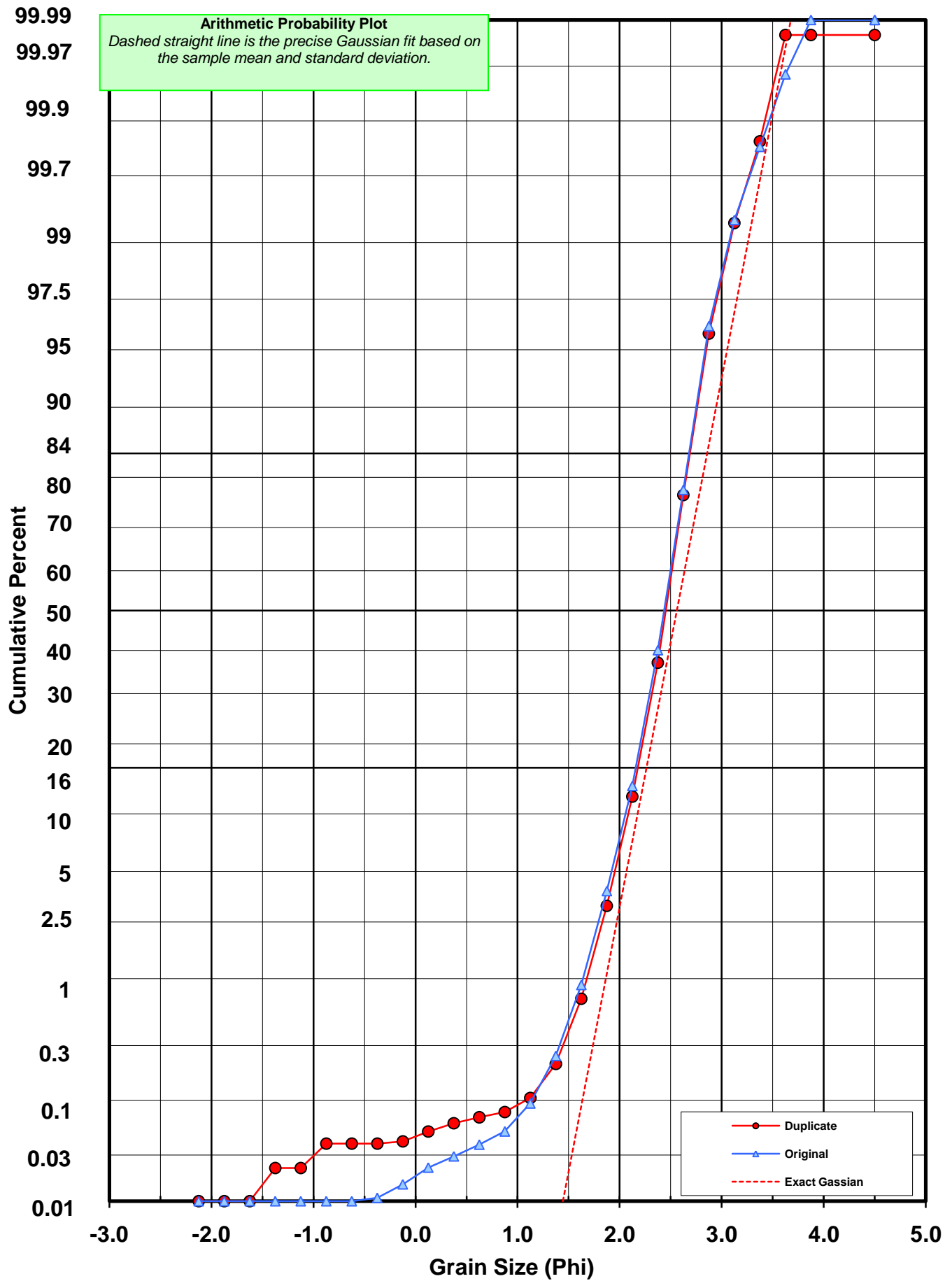
Onshore Grab Sample: DU-11-MB

Total Duplicate Sample Mass: 49.841 grams

Total Original Sample Mass: 53.528 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	0.011	0.022	0.022	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.022	0.000	0.000	0.000
-0.75	-0.875	0.009	0.018	0.040	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.040	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.040	0.003	0.006	0.006
0.00	-0.125	0.001	0.002	0.042	0.004	0.007	0.013
0.25	0.125	0.005	0.010	0.052	0.005	0.009	0.022
0.50	0.375	0.005	0.010	0.062	0.004	0.007	0.030
0.75	0.625	0.004	0.008	0.070	0.005	0.009	0.039
1.00	0.875	0.004	0.008	0.078	0.007	0.013	0.052
1.25	1.125	0.013	0.026	0.104	0.022	0.041	0.093
1.50	1.375	0.051	0.102	0.207	0.080	0.149	0.243
1.75	1.625	0.254	0.510	0.716	0.359	0.671	0.914
2.00	1.875	1.196	2.400	3.116	1.561	2.916	3.830
2.25	2.125	4.464	8.956	12.072	5.170	9.659	13.489
2.50	2.375	12.525	25.130	37.202	14.293	26.703	40.192
2.75	2.625	19.586	39.297	76.499	19.967	37.303	77.495
3.00	2.875	9.713	19.488	95.987	10.104	18.877	96.372
3.25	3.125	1.639	3.288	99.276	1.574	2.941	99.312
3.50	3.375	0.286	0.574	99.850	0.278	0.519	99.832
3.75	3.625	0.069	0.138	99.988	0.070	0.131	99.963
4.00	3.875	0.000	0.000	99.988	0.020	0.037	100.000
5.00	4.500	0.000	0.000	99.988	0.000	0.000	100.000
5.00	4.500	0.006	0.012	100.000	0.002	0.004	100.004



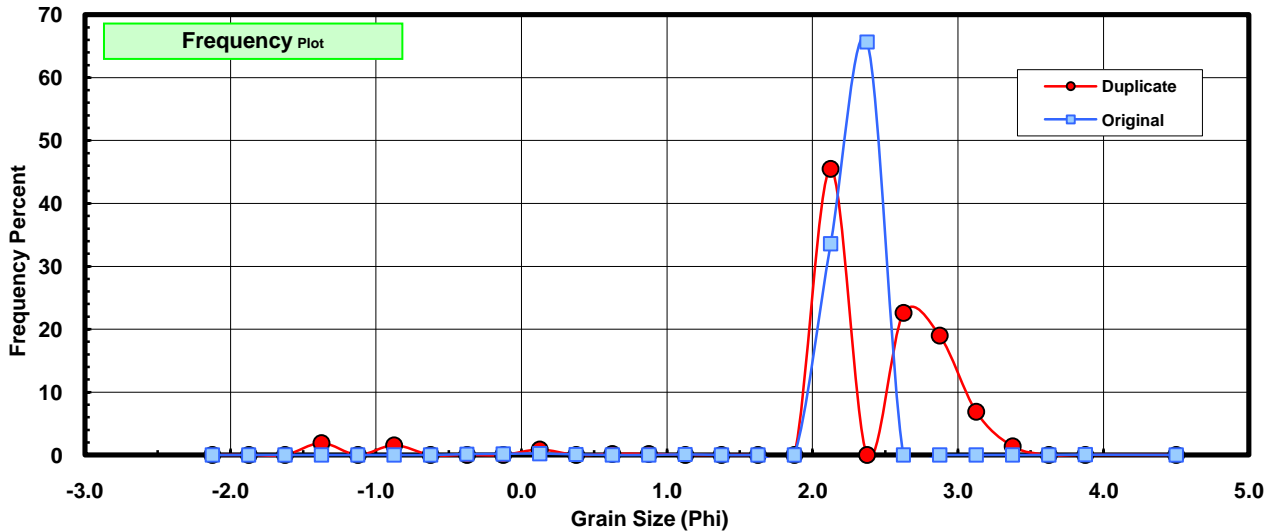


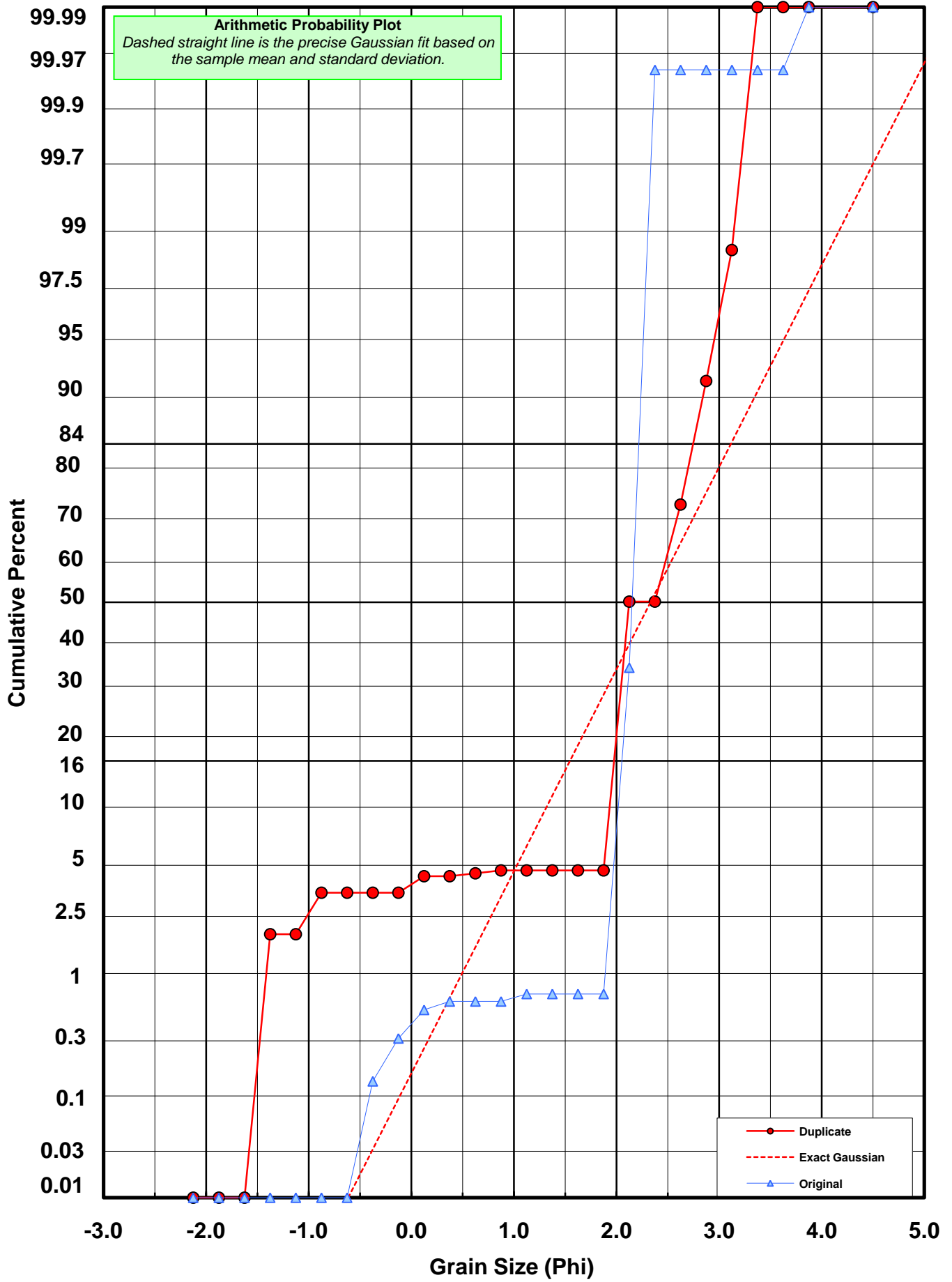
Carbonate Grain Size Distribution

Onshore Grab Sample: DU-11-MB

Total Duplicate Carbonate Mass: 0.580 grams
 % Carbonate in Duplicate: 0.5 %
 Total Original Carbonate Mass: 2.243 grams
 % Carbonate in Original: 0.7 %

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	0.011	1.897	1.897	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	1.897	0.000	0.000	0.000
-0.75	-0.875	0.009	1.552	3.448	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	3.448	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	3.448	0.003	0.134	0.134
0.00	-0.125	0.000	0.000	3.448	0.004	0.178	0.312
0.25	0.125	0.005	0.862	4.310	0.005	0.223	0.535
0.50	0.375	0.000	0.000	4.310	0.002	0.089	0.624
0.75	0.625	0.001	0.172	4.483	0.000	0.000	0.624
1.00	0.875	0.001	0.172	4.655	0.000	0.000	0.624
1.25	1.125	0.000	0.000	4.655	0.002	0.089	0.713
1.50	1.375	0.000	0.000	4.655	0.000	0.000	0.713
1.75	1.625	0.000	0.000	4.655	0.000	0.000	0.713
2.00	1.875	0.000	0.000	4.655	0.000	0.000	0.713
2.25	2.125	0.264	45.517	50.172	0.753	33.571	34.284
2.50	2.375	0.000	0.000	50.172	1.473	65.671	99.955
2.75	2.625	0.131	22.586	72.759	0.000	0.000	99.955
3.00	2.875	0.110	18.966	91.724	0.000	0.000	99.955
3.25	3.125	0.040	6.897	98.621	0.000	0.000	99.955
3.50	3.375	0.008	1.379	100.000	0.000	0.000	99.955
3.75	3.625	0.000	0.000	100.000	0.000	0.000	99.955
4.00	3.875	0.000	0.000	100.000	0.001	0.045	100.000
5.00	4.500	0.000	0.000	100.000	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000	0.000	0.000	100.000





Post-Digestion Grain Size Distribution

Onshore Grab Sample: DU-11-MB

Total Duplicate Digested Mass: 49.620 grams
% Silica in Duplicate: 99.5 %
Total Original Digested Mass: 53.165 grams
% Silica in Original: 99.3 %

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	0.001	0.002	0.002	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.002	0.000	0.000	0.000
0.50	0.375	0.005	0.010	0.012	0.002	0.004	0.004
0.75	0.625	0.003	0.006	0.018	0.009	0.017	0.021
1.00	0.875	0.003	0.006	0.024	0.007	0.013	0.034
1.25	1.125	0.016	0.032	0.056	0.020	0.038	0.071
1.50	1.375	0.056	0.113	0.169	0.080	0.150	0.222
1.75	1.625	0.276	0.556	0.726	0.372	0.700	0.922
2.00	1.875	1.272	2.563	3.289	1.597	3.004	3.926
2.25	2.125	4.200	8.464	11.753	4.417	8.308	12.234
2.50	2.375	12.751	25.697	37.451	12.820	24.114	36.347
2.75	2.625	19.455	39.208	76.659	20.387	38.347	74.694
3.00	2.875	9.603	19.353	96.012	11.147	20.967	95.661
3.25	3.125	1.599	3.222	99.234	1.891	3.557	99.218
3.50	3.375	0.278	0.560	99.794	0.314	0.591	99.808
3.75	3.625	0.072	0.145	99.940	0.077	0.145	99.953
4.00	3.875	0.022	0.044	99.984	0.019	0.036	99.989
5.00	4.500	0.000	0.000	99.984	0.000	0.000	99.989
5.00	4.500	0.008	0.016	100.000	0.006	0.011	100.000

