

Quality Control Statistical Summary

Onshore Grab Sample: DU-05-SS

Sample Taken By: J. Ladner **Latitude:** 30° 19' 58.4"
Sample Taken On: 12/04/02 **Longitude:** 81° 23' 40.0"
County: Duval **Datum:** WGS 84

Statistical Results: Pre-CaCO3		
	Duplicate	Original
Mean:	1.8977 phi (0.2684 mm)	2.1947 phi (0.2184 mm)
Standard Dev:	0.6259 phi-units (0.648 mm)	0.6010 phi-units (0.6593 mm)
Skewness:	-0.1432 dimensionless	-0.7154 dimensionless
Kurtosis:	2.3481 dimensionless	3.5527 dimensionless
5th Moment:	-1.0502 dimensionless	-8.6797 dimensionless
6th Moment:	9.6659 dimensionless	48.9552 dimensionless
RARD*:	0.3298 dimensionless	0.2739 dimensionless
Median:	1.7912 phi (0.2889 mm)	2.1882 phi (0.2194 mm)

Statistical Results: CaCO3		
	Duplicate	Original
Mean:	1.3090 phi (0.4036 mm)	1.9126 phi (0.2656 mm)
Standard Dev:	0.7414 phi-units (0.5982 mm)	0.9944 phi-units (0.5019 mm)
Skewness:	0.3344 dimensionless	-0.5354 dimensionless
Kurtosis:	3.1145 dimensionless	3.6271 dimensionless
5th Moment:	4.0386 dimensionless	-8.5469 dimensionless
6th Moment:	20.8719 dimensionless	37.9324 dimensionless
RARD*:	0.5664 dimensionless	0.5199 dimensionless
Median:	1.0717 phi (0.4757 mm)	1.7891 phi (0.2893 mm)

Statistical Results: Post-CaCO3		
	Duplicate	Original
Mean:	1.9233 phi (0.2637 mm)	2.2056 phi (0.2168 mm)
Standard Dev:	0.6102 phi-units (0.6551 mm)	0.5799 phi-units (0.669 mm)
Skewness:	-0.0867 dimensionless	-0.6496 dimensionless
Kurtosis:	2.2067 dimensionless	2.9935 dimensionless
5th Moment:	-0.3343 dimensionless	-4.2864 dimensionless
6th Moment:	7.8148 dimensionless	16.6364 dimensionless
RARD*:	0.3173 dimensionless	0.2629 dimensionless
Median:	1.8147 phi (0.2843 mm)	2.1958 phi (0.2183 mm)

Additional Data	
Total Fines	
Original:	0.96 %
Duplicate:	1.67 %
Total Carbonates	
Original:	2.32 %
Duplicate:	3.42 %

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)

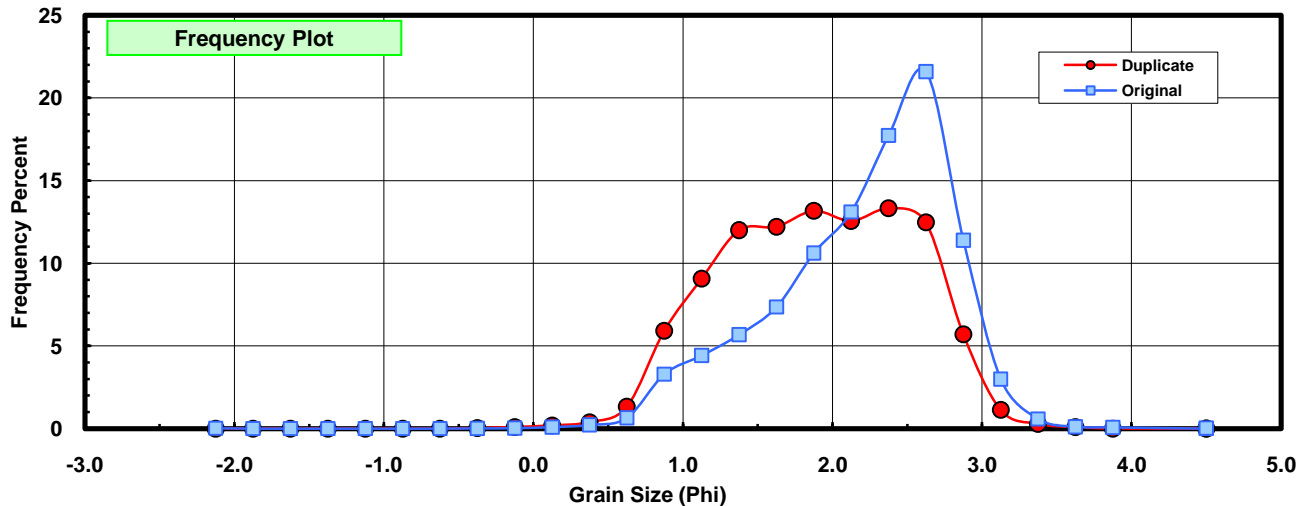
Pre-Digestion Grain Size Distribution

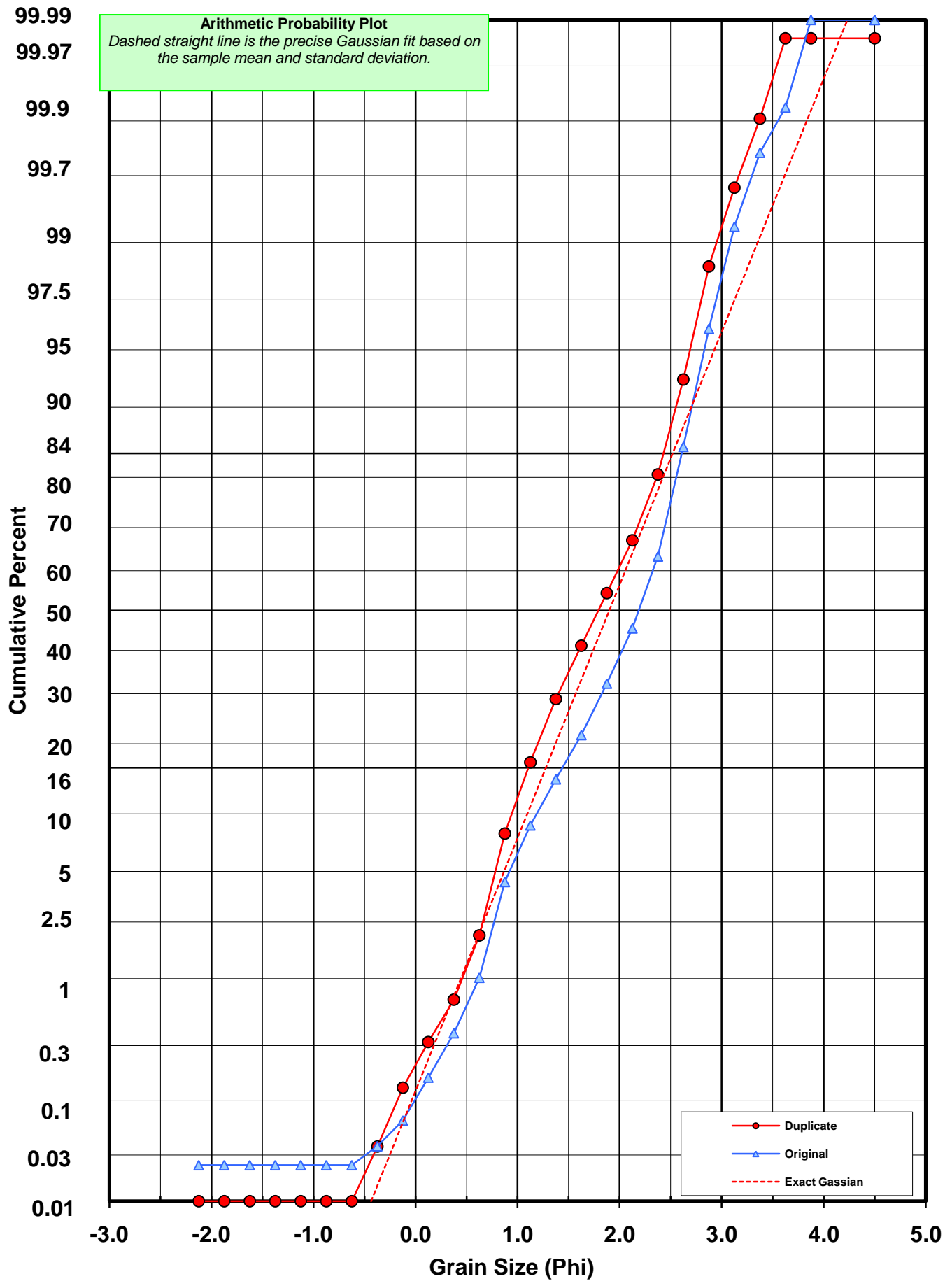
Onshore Grab Sample: DU-05-SS

Total Duplicate Sample Mass: 50.500 grams

Total Original Sample Mass: 50.165 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	0.012	0.024	0.024
-1.75	-1.875	0.000	0.000	0.000	0.000	0.000	0.024
-1.50	-1.625	0.000	0.000	0.000	0.000	0.000	0.024
-1.25	-1.375	0.000	0.000	0.000	0.000	0.000	0.024
-1.00	-1.125	0.000	0.000	0.000	0.000	0.000	0.024
-0.75	-0.875	0.000	0.000	0.000	0.000	0.000	0.024
-0.50	-0.625	0.000	0.000	0.000	0.000	0.000	0.024
-0.25	-0.375	0.019	0.038	0.038	0.007	0.014	0.038
0.00	-0.125	0.046	0.091	0.129	0.014	0.028	0.066
0.25	0.125	0.096	0.190	0.319	0.046	0.092	0.158
0.50	0.375	0.195	0.386	0.705	0.111	0.221	0.379
0.75	0.625	0.669	1.325	2.030	0.328	0.654	1.033
1.00	0.875	2.988	5.917	7.947	1.652	3.294	4.327
1.25	1.125	4.583	9.075	17.022	2.218	4.423	8.749
1.50	1.375	6.062	12.004	29.026	2.849	5.681	14.430
1.75	1.625	6.168	12.214	41.240	3.691	7.360	21.790
2.00	1.875	6.656	13.180	54.420	5.326	10.620	32.409
2.25	2.125	6.345	12.564	66.984	6.574	13.108	45.518
2.50	2.375	6.732	13.331	80.315	8.893	17.732	63.250
2.75	2.625	6.297	12.469	92.784	10.827	21.588	84.838
3.00	2.875	2.883	5.709	98.493	5.716	11.397	96.235
3.25	3.125	0.571	1.131	99.624	1.500	2.991	99.226
3.50	3.375	0.142	0.281	99.905	0.293	0.584	99.811
3.75	3.625	0.041	0.081	99.986	0.057	0.114	99.924
4.00	3.875	0.000	0.000	99.986	0.038	0.076	100.000
5.00	4.500	0.000	0.000	99.986	0.000	0.000	100.000
5.00	4.500	0.007	0.014	100.000	0.013	0.026	100.026



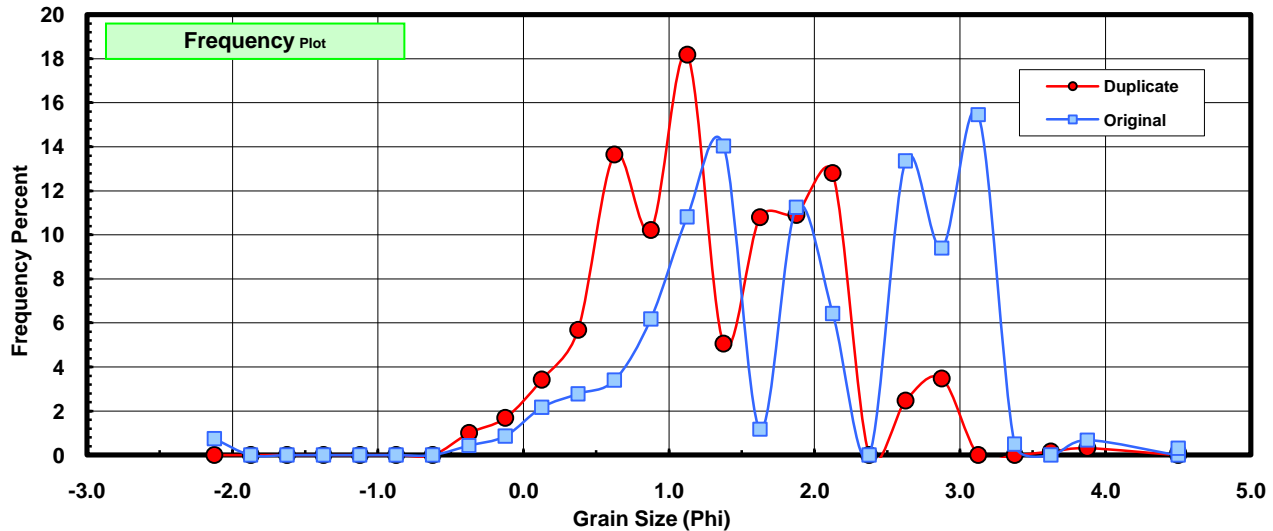


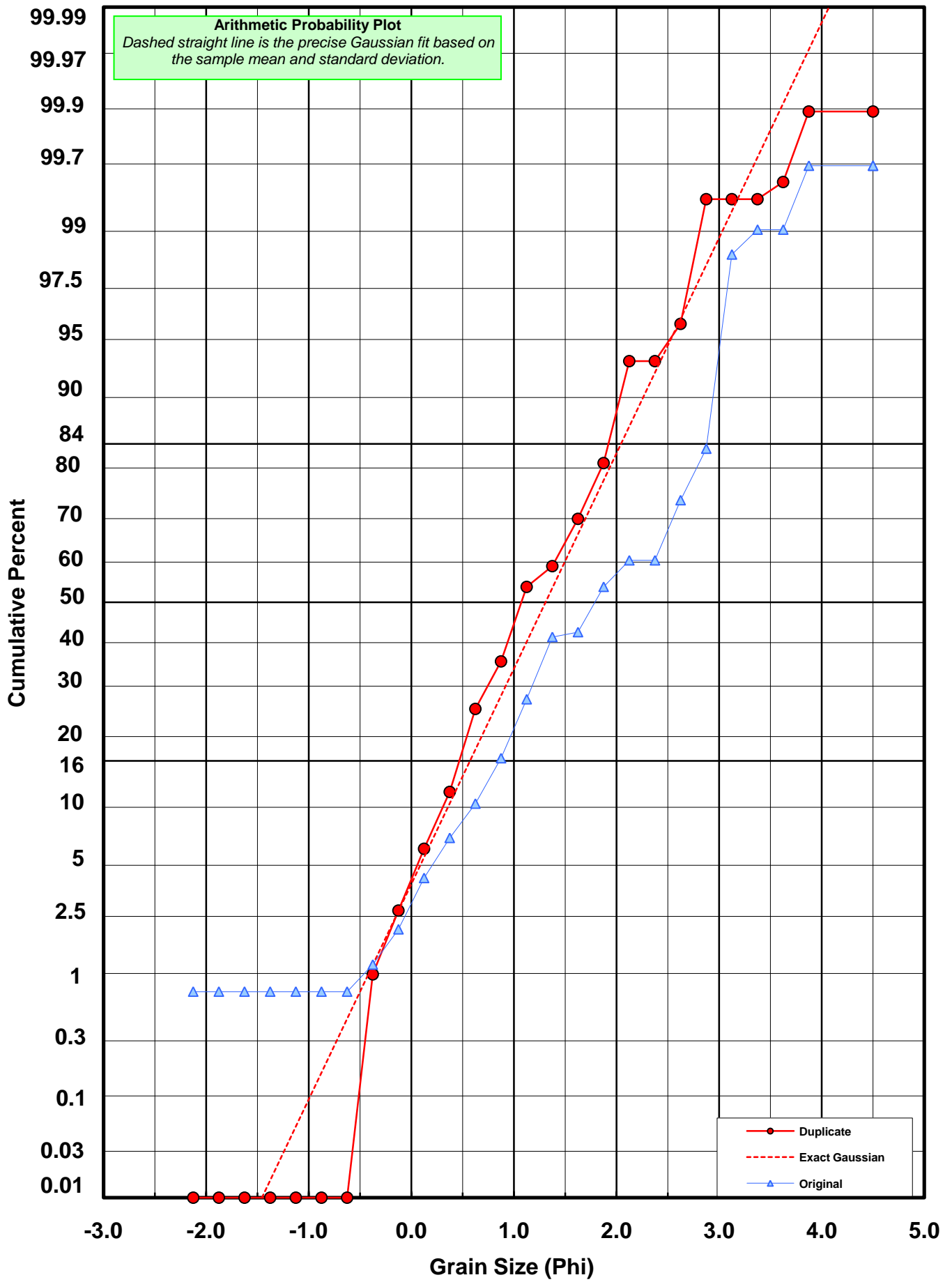
Carbonate Grain Size Distribution

Onshore Grab Sample: DU-05-SS

Total Duplicate Carbonate Mass: 1.897 grams
% Carbonate in Duplicate: 3.4 %
Total Original Carbonate Mass: 1.617 grams
% Carbonate in Original: 2.3 %

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	0.012	0.742	0.742
-1.75	-1.875	0.000	0.000	0.000	0.000	0.000	0.742
-1.50	-1.625	0.000	0.000	0.000	0.000	0.000	0.742
-1.25	-1.375	0.000	0.000	0.000	0.000	0.000	0.742
-1.00	-1.125	0.000	0.000	0.000	0.000	0.000	0.742
-0.75	-0.875	0.000	0.000	0.000	0.000	0.000	0.742
-0.50	-0.625	0.000	0.000	0.000	0.000	0.000	0.742
-0.25	-0.375	0.019	1.002	1.002	0.007	0.433	1.175
0.00	-0.125	0.032	1.687	2.688	0.014	0.866	2.041
0.25	0.125	0.065	3.426	6.115	0.035	2.165	4.205
0.50	0.375	0.108	5.693	11.808	0.045	2.783	6.988
0.75	0.625	0.259	13.653	25.461	0.055	3.401	10.390
1.00	0.875	0.194	10.227	35.688	0.100	6.184	16.574
1.25	1.125	0.345	18.187	53.875	0.175	10.823	27.396
1.50	1.375	0.096	5.061	58.935	0.227	14.038	41.435
1.75	1.625	0.205	10.807	69.742	0.019	1.175	42.610
2.00	1.875	0.207	10.912	80.654	0.182	11.255	53.865
2.25	2.125	0.243	12.810	93.463	0.104	6.432	60.297
2.50	2.375	0.000	0.000	93.463	0.000	0.000	60.297
2.75	2.625	0.047	2.478	95.941	0.216	13.358	73.655
3.00	2.875	0.066	3.479	99.420	0.152	9.400	83.055
3.25	3.125	0.000	0.000	99.420	0.250	15.461	98.516
3.50	3.375	0.000	0.000	99.420	0.008	0.495	99.011
3.75	3.625	0.003	0.158	99.578	0.000	0.000	99.011
4.00	3.875	0.006	0.316	99.895	0.011	0.680	99.691
5.00	4.500	0.000	0.000	99.895	0.000	0.000	99.691
5.00	4.500	0.002	0.105	100.000	0.005	0.309	100.000





Post-Digestion Grain Size Distribution

Onshore Grab Sample: DU-05-SS

Total Duplicate Digested Mass: 48.792 grams
% Silica in Duplicate: 96.6 %
Total Original Digested Mass: 49.001 grams
% Silica in Original: 97.7 %

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	0.004	0.008	0.008
-0.50	-0.625	0.000	0.000	0.000	0.004	0.008	0.016
-0.25	-0.375	0.000	0.000	0.000	0.000	0.000	0.016
0.00	-0.125	0.014	0.029	0.029	0.000	0.000	0.016
0.25	0.125	0.031	0.064	0.092	0.011	0.022	0.039
0.50	0.375	0.087	0.178	0.271	0.066	0.135	0.173
0.75	0.625	0.410	0.840	1.111	0.273	0.557	0.731
1.00	0.875	2.794	5.726	6.837	1.552	3.167	3.898
1.25	1.125	4.238	8.686	15.523	2.043	4.169	8.067
1.50	1.375	5.966	12.227	27.750	2.622	5.351	13.418
1.75	1.625	5.963	12.221	39.972	3.672	7.494	20.912
2.00	1.875	6.449	13.217	53.189	5.144	10.498	31.410
2.25	2.125	6.102	12.506	65.695	6.470	13.204	44.613
2.50	2.375	6.882	14.105	79.800	9.323	19.026	63.640
2.75	2.625	6.250	12.809	92.609	10.611	21.655	85.294
3.00	2.875	2.817	5.773	98.383	5.564	11.355	96.649
3.25	3.125	0.592	1.213	99.596	1.250	2.551	99.200
3.50	3.375	0.142	0.291	99.887	0.285	0.582	99.782
3.75	3.625	0.038	0.078	99.965	0.072	0.147	99.929
4.00	3.875	0.012	0.025	99.990	0.027	0.055	99.984
5.00	4.500	0.000	0.000	99.990	0.000	0.000	99.984
5.00	4.500	0.005	0.010	100.000	0.008	0.016	100.000

