

Quality Control Statistical Summary

Onshore Grab Sample: BV-61-BB

Sample Taken By: D. Phelps
 Sample Taken On: 09/24/08
 County: Brevard

Latitude: 28° 04' 28.7"
 Longitude: 80° 33' 33.0"
 Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	1.6108	phi (0.3274 mm)	1.6110	phi (0.3274 mm)
Standard Dev:	0.4152	phi-units (0.7499 mm)	0.4607	phi-units (0.7267 mm)
Skewness:	-0.8059	dimensionless	-0.9901	dimensionless
Kurtosis:	8.1934	dimensionless	7.5436	dimensionless
5th Moment:	-35.4452	dimensionless	-28.7950	dimensionless
6th Moment:	296.7020	dimensionless	189.2840	dimensionless
RARD*:	0.2578	dimensionless	0.2859	dimensionless
Median:	1.5020	phi (0.3531 mm)	1.5121	phi (0.3506 mm)

Statistical Results: CaCO3				
	Duplicate		Original	
Mean:	1.4610	phi (0.3632 mm)	1.4160	phi (0.3748 mm)
Standard Dev:	0.5505	phi-units (0.6828 mm)	0.6600	phi-units (0.6329 mm)
Skewness:	-1.6165	dimensionless	-1.1582	dimensionless
Kurtosis:	8.9891	dimensionless	5.6349	dimensionless
5th Moment:	-39.5769	dimensionless	-17.1603	dimensionless
6th Moment:	213.5540	dimensionless	72.5356	dimensionless
RARD*:	0.3768	dimensionless	0.4661	dimensionless
Median:	1.3902	phi (0.3815 mm)	1.3239	phi (0.3995 mm)

Statistical Results: Post-CaCO3				
	Duplicate		Original	
Mean:	1.6464	phi (0.3194 mm)	1.6592	phi (0.3166 mm)
Standard Dev:	0.3771	phi-units (0.77 mm)	0.3917	phi-units (0.7622 mm)
Skewness:	0.0705	dimensionless	-0.0975	dimensionless
Kurtosis:	4.0655	dimensionless	4.0475	dimensionless
5th Moment:	4.9831	dimensionless	0.2941	dimensionless
6th Moment:	58.2289	dimensionless	40.9765	dimensionless
RARD*:	0.2291	dimensionless	0.2361	dimensionless
Median:	1.5256	phi (0.3473 mm)	1.5448	phi (0.3427 mm)

Additional Data	
Total Fines	
Original:	0.09 %
Duplicate:	2.04 %
Total Carbonates	
Original:	19.79 %
Duplicate:	19.04 %

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)

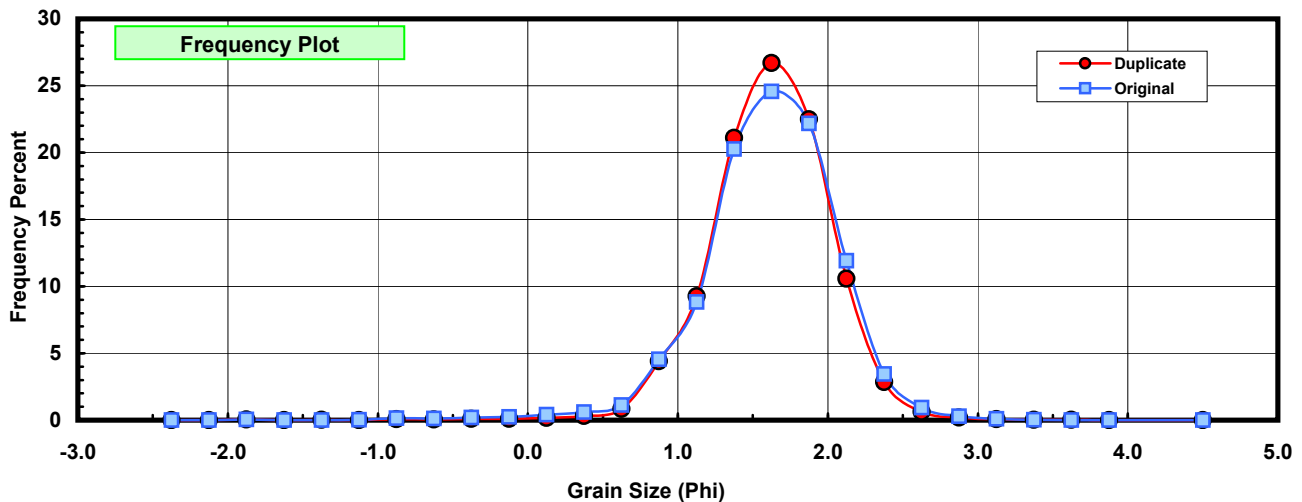
Pre-Digestion Grain Size Distribution

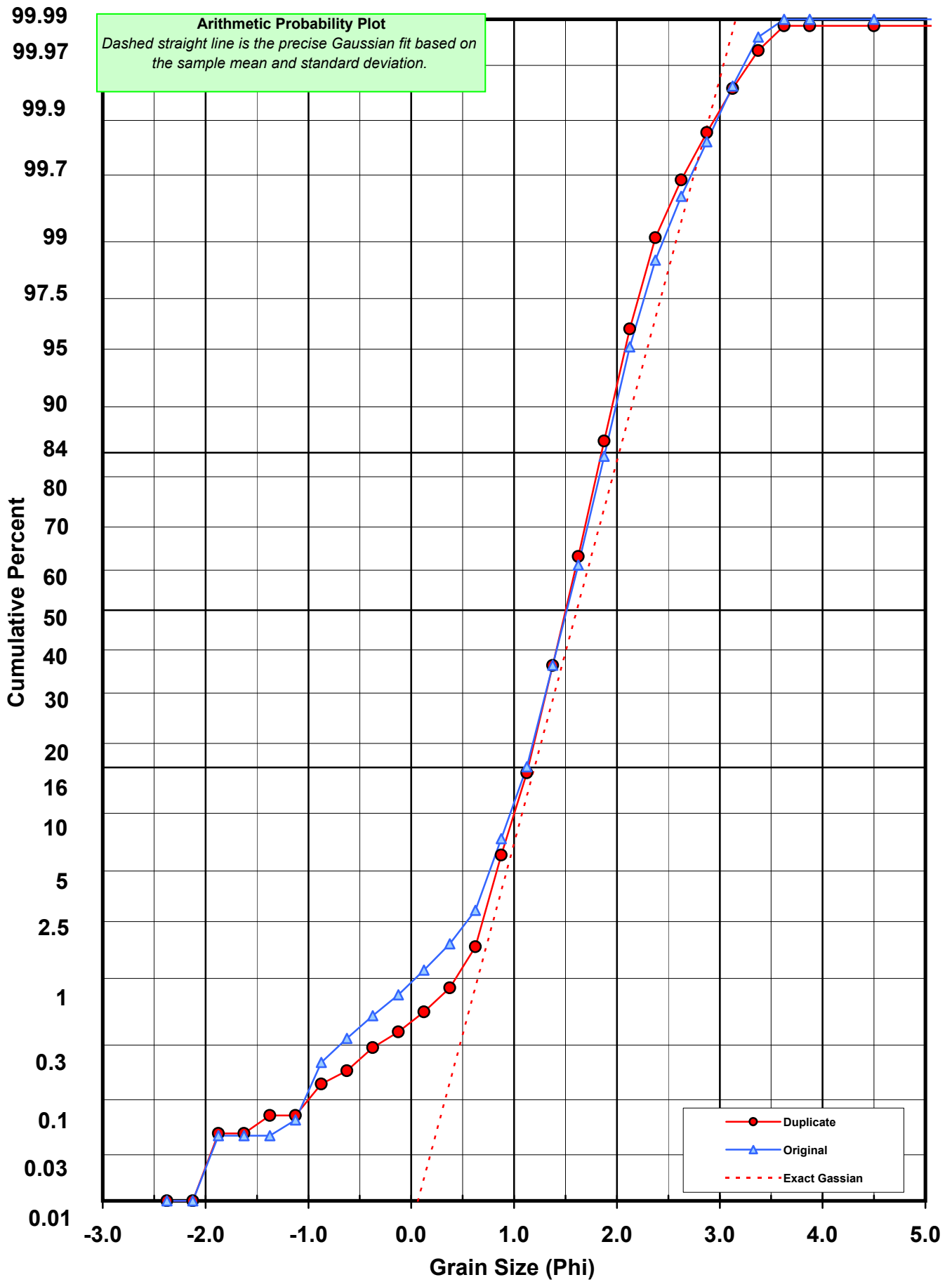
Onshore Grab Sample: BV-61-BB

Total Duplicate Sample Mass: 52.354 grams

Total Original Sample Mass: 59.148 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight of Dupl (grams)	Freq Weight %	Cumulative Weight %	Weight of Original (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000	0.000	0.000	0.000
-1.75	-1.875	0.026	0.050	0.050	0.028	0.047	0.047
-1.50	-1.625	0.000	0.000	0.050	0.000	0.000	0.047
-1.25	-1.375	0.012	0.023	0.073	0.000	0.000	0.047
-1.00	-1.125	0.000	0.000	0.073	0.011	0.019	0.066
-0.75	-0.875	0.034	0.065	0.138	0.086	0.145	0.211
-0.50	-0.625	0.022	0.042	0.180	0.076	0.128	0.340
-0.25	-0.375	0.055	0.105	0.285	0.109	0.184	0.524
0.00	-0.125	0.053	0.101	0.386	0.141	0.238	0.763
0.25	0.125	0.092	0.176	0.562	0.239	0.404	1.167
0.50	0.375	0.157	0.300	0.861	0.360	0.609	1.775
0.75	0.625	0.436	0.833	1.694	0.670	1.133	2.908
1.00	0.875	2.299	4.391	6.085	2.684	4.538	7.446
1.25	1.125	4.841	9.247	15.332	5.218	8.822	16.268
1.50	1.375	11.052	21.110	36.442	11.981	20.257	36.525
1.75	1.625	13.975	26.693	63.136	14.537	24.578	61.103
2.00	1.875	11.773	22.487	85.623	13.111	22.167	83.270
2.25	2.125	5.536	10.574	96.197	7.044	11.910	95.180
2.50	2.375	1.496	2.857	99.055	2.037	3.444	98.624
2.75	2.625	0.323	0.617	99.671	0.548	0.927	99.550
3.00	2.875	0.105	0.201	99.872	0.175	0.296	99.846
3.25	3.125	0.040	0.076	99.948	0.062	0.105	99.951
3.50	3.375	0.016	0.031	99.979	0.021	0.036	99.986
3.75	3.625	0.007	0.013	99.992	0.007	0.012	99.998
4.00	3.875	0.000	0.000	99.992	0.001	0.002	100.000
5.00	4.500	0.004	0.008	100.000	0.002	0.003	100.003



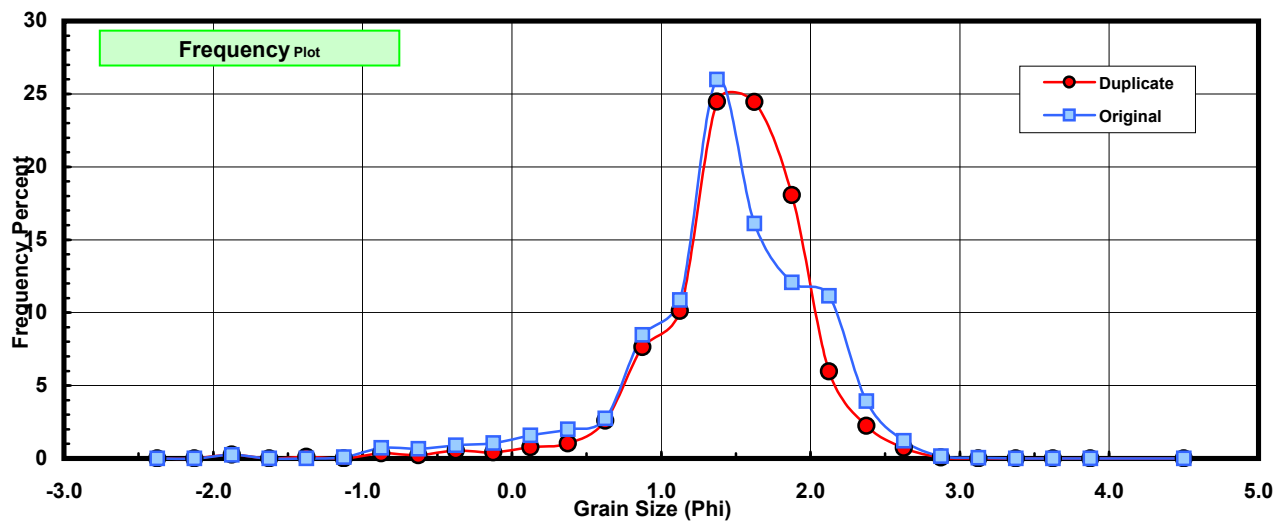


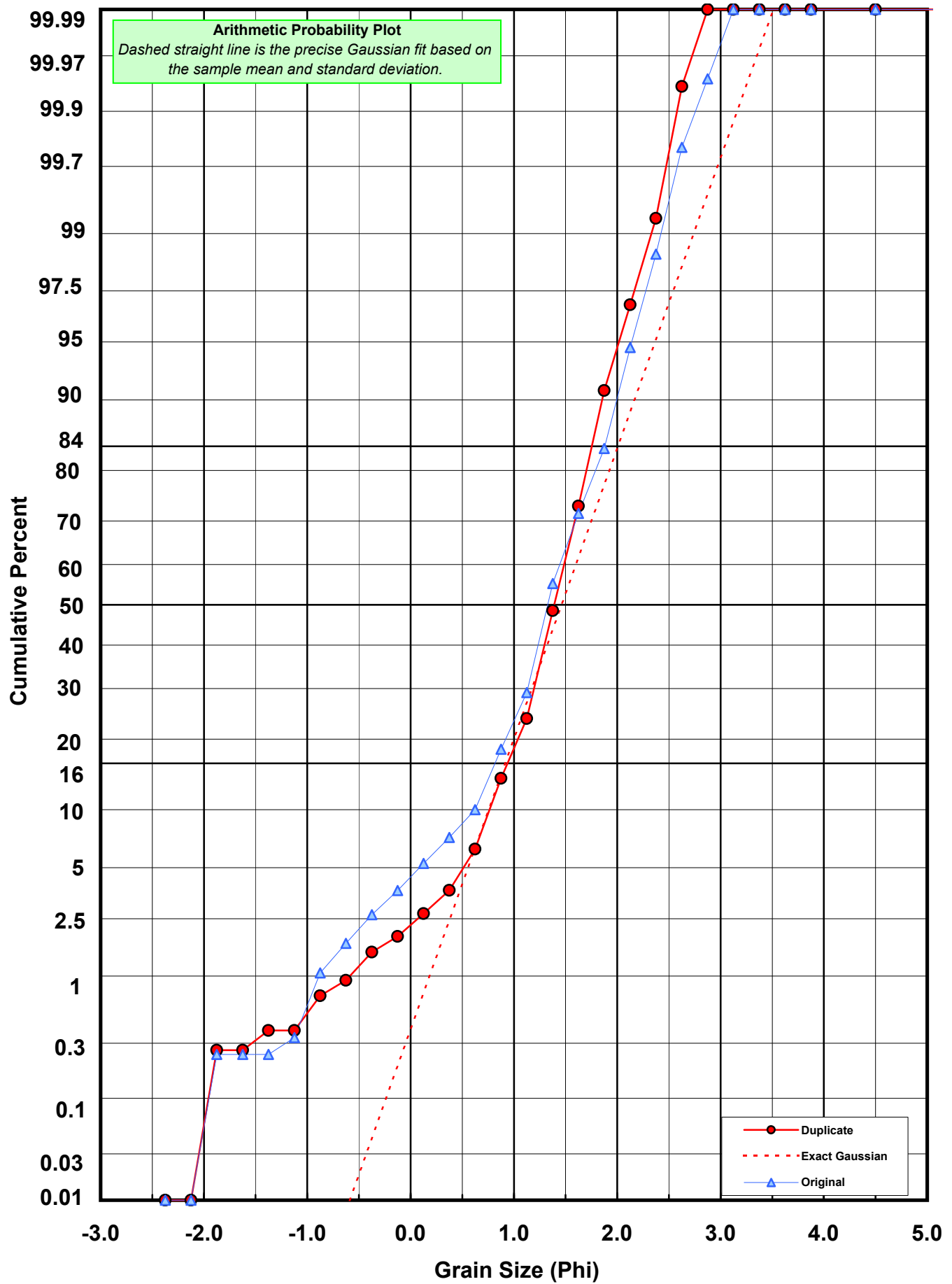
Carbonate Grain Size Distribution

Onshore Grab Sample: BV-61-BB

Total Duplicate Carbonate Mass: 9.970 grams
% Carbonate in Duplicate: 19.0 %
Total Original Carbonate Mass: 11.705 grams
% Carbonate in Original: 19.8 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight of Dupl (grams)	Freq Weight %	Cumulative Weight %	Weight of Original (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000	0.000	0.000	0.000
-1.75	-1.875	0.026	0.261	0.261	0.028	0.239	0.239
-1.50	-1.625	0.000	0.000	0.261	0.000	0.000	0.239
-1.25	-1.375	0.012	0.120	0.381	0.000	0.000	0.239
-1.00	-1.125	0.000	0.000	0.381	0.011	0.094	0.333
-0.75	-0.875	0.034	0.341	0.722	0.086	0.735	1.068
-0.50	-0.625	0.022	0.221	0.943	0.076	0.649	1.717
-0.25	-0.375	0.055	0.552	1.494	0.106	0.906	2.623
0.00	-0.125	0.041	0.411	1.906	0.123	1.051	3.674
0.25	0.125	0.076	0.762	2.668	0.185	1.581	5.254
0.50	0.375	0.102	1.023	3.691	0.233	1.991	7.245
0.75	0.625	0.259	2.598	6.289	0.322	2.751	9.996
1.00	0.875	0.762	7.643	13.932	0.991	8.466	18.462
1.25	1.125	1.008	10.110	24.042	1.272	10.867	29.329
1.50	1.375	2.440	24.473	48.516	3.041	25.980	55.310
1.75	1.625	2.437	24.443	72.959	1.885	16.104	71.414
2.00	1.875	1.800	18.054	91.013	1.414	12.080	83.494
2.25	2.125	0.595	5.968	96.981	1.306	11.158	94.652
2.50	2.375	0.223	2.237	99.218	0.460	3.930	98.582
2.75	2.625	0.072	0.722	99.940	0.142	1.213	99.795
3.00	2.875	0.006	0.060	100.000	0.018	0.154	99.949
3.25	3.125	0.000	0.000	100.000	0.006	0.051	100.000
3.50	3.375	0.000	0.000	100.000	0.000	0.000	100.000
3.75	3.625	0.000	0.000	100.000	0.000	0.000	100.000
4.00	3.875	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: BV-61-BB

Total Duplicate Digested Mass: 42.389 grams
% Silica in Duplicate: 81.0 %
Total Original Digested Mass: 47.444 grams
% Silica in Original: 80.2 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %	Weight of Original (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000	0.000	0.000	0.000
-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	0.003	0.006	0.006
0.00	-0.125	0.012	0.028	0.028	0.018	0.038	0.044
0.25	0.125	0.016	0.038	0.066	0.054	0.114	0.158
0.50	0.375	0.055	0.130	0.196	0.127	0.268	0.426
0.75	0.625	0.177	0.418	0.613	0.348	0.733	1.159
1.00	0.875	1.537	3.626	4.239	1.693	3.568	4.728
1.25	1.125	3.833	9.042	13.282	3.946	8.317	13.045
1.50	1.375	8.612	20.317	33.598	8.940	18.843	31.888
1.75	1.625	11.538	27.219	60.818	12.652	26.667	58.555
2.00	1.875	9.973	23.527	84.345	11.697	24.654	83.210
2.25	2.125	4.941	11.656	96.001	5.738	12.094	95.304
2.50	2.375	1.273	3.003	99.004	1.577	3.324	98.628
2.75	2.625	0.251	0.592	99.597	0.406	0.856	99.484
3.00	2.875	0.099	0.234	99.830	0.157	0.331	99.815
3.25	3.125	0.040	0.094	99.925	0.056	0.118	99.933
3.50	3.375	0.017	0.040	99.965	0.021	0.044	99.977
3.75	3.625	0.008	0.019	99.983	0.007	0.015	99.992
4.00	3.875	0.001	0.002	99.986	0.002	0.004	99.996
5.00	4.500	0.006	0.014	100.000	0.002	0.004	100.000

