

Quality Control Statistical Summary

Onshore Grab Sample: BV-11-BB

Sample Taken By: D. Phelps
 Sample Taken On: 03/18/09
 County: Brevard

Latitude: 28° 40' 04.1"
 Longitude: 80° 38' 26.6"
 Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	1.0558	phi (0.481 mm)	1.0130	phi (0.4955 mm)
Standard Dev:	0.6008	phi-units (0.6594 mm)	0.5639	phi-units (0.6765 mm)
Skewness:	-0.4903	dimensionless	-0.3644	dimensionless
Kurtosis:	4.7700	dimensionless	4.2619	dimensionless
5th Moment:	-8.7755	dimensionless	-5.3073	dimensionless
6th Moment:	60.8594	dimensionless	42.3591	dimensionless
RARD*:	0.5691	dimensionless	0.5567	dimensionless
Median:	0.9555	phi (0.5157 mm)	0.8867	phi (0.5409 mm)

Statistical Results: CaCO3				
	Duplicate		Original	
Mean:	0.7163	phi (0.6086 mm)	0.7165	phi (0.6086 mm)
Standard Dev:	0.6858	phi-units (0.6217 mm)	0.6148	phi-units (0.653 mm)
Skewness:	-0.6602	dimensionless	-0.5941	dimensionless
Kurtosis:	4.0329	dimensionless	3.8656	dimensionless
5th Moment:	-8.8501	dimensionless	-6.6069	dimensionless
6th Moment:	41.2176	dimensionless	31.6228	dimensionless
RARD*:	0.9573	dimensionless	0.8580	dimensionless
Median:	0.6889	phi (0.6203 mm)	0.7035	phi (0.6141 mm)

Statistical Results: Post-CaCO3				
	Duplicate		Original	
Mean:	1.1916	phi (0.4378 mm)	1.1373	phi (0.4546 mm)
Standard Dev:	0.5139	phi-units (0.7003 mm)	0.5010	phi-units (0.7066 mm)
Skewness:	0.2021	dimensionless	0.1907	dimensionless
Kurtosis:	3.8295	dimensionless	3.7805	dimensionless
5th Moment:	4.5000	dimensionless	5.2653	dimensionless
6th Moment:	34.6099	dimensionless	40.5163	dimensionless
RARD*:	0.4313	dimensionless	0.4405	dimensionless
Median:	1.0695	phi (0.4765 mm)	1.0112	phi (0.4961 mm)

Additional Data	
Total Fines	
Original:	0.07 %
Duplicate:	0.09 %
Total Carbonates	
Original:	29.3 %
Duplicate:	28.44 %

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)

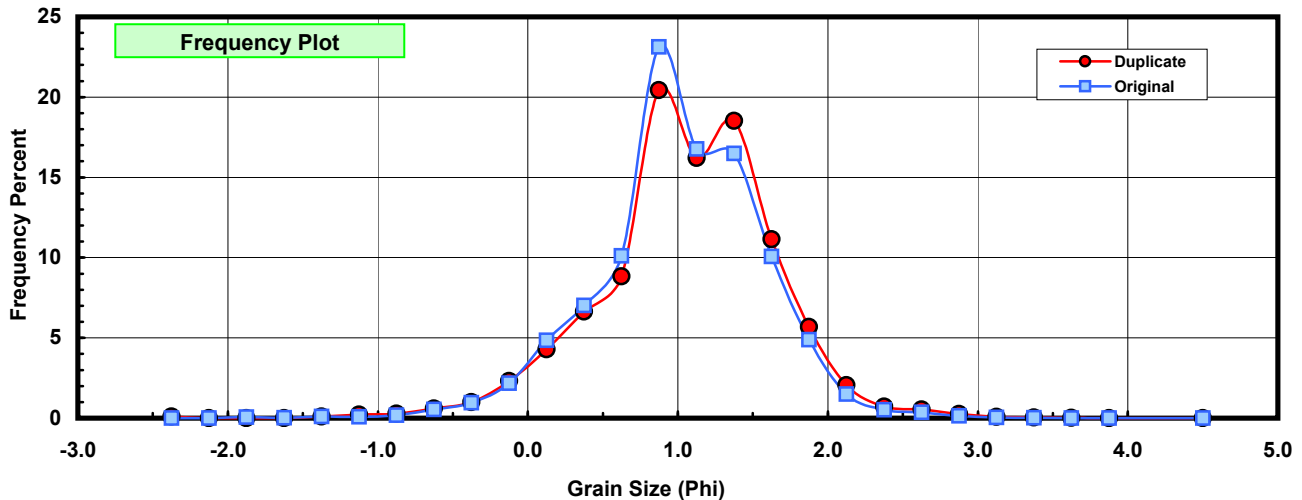
Pre-Digestion Grain Size Distribution

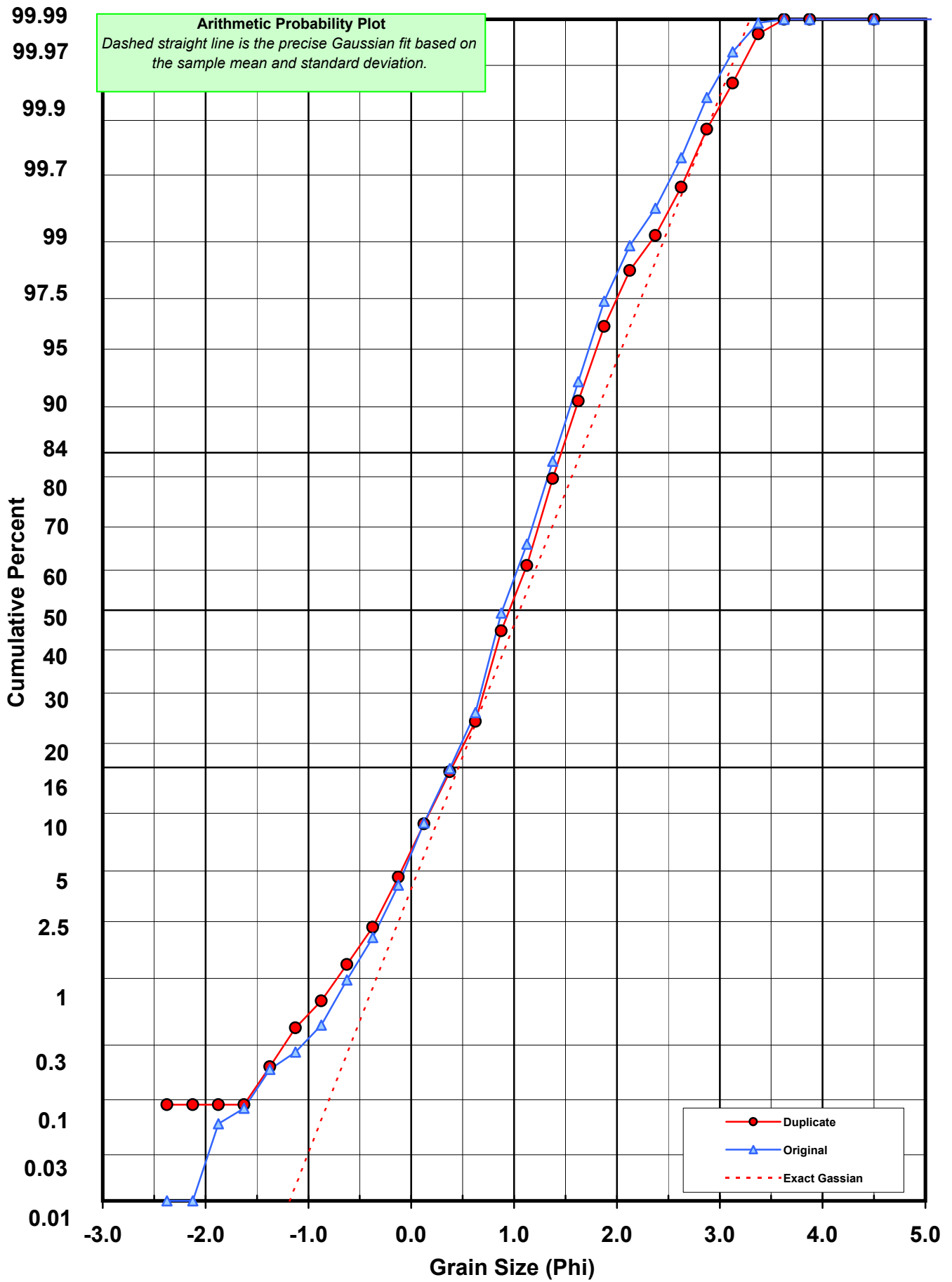
Onshore Grab Sample: BV-11-BB

Total Duplicate Sample Mass: 58.633 grams

Total Original Sample Mass: 69.010 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	0.053	0.090	0.090	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.090	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.090	0.042	0.061	0.061
-1.50	-1.625	0.000	0.000	0.090	0.016	0.023	0.084
-1.25	-1.375	0.061	0.104	0.194	0.069	0.100	0.184
-1.00	-1.125	0.130	0.222	0.416	0.052	0.075	0.259
-0.75	-0.875	0.158	0.269	0.686	0.123	0.178	0.438
-0.50	-0.625	0.348	0.594	1.279	0.378	0.548	0.985
-0.25	-0.375	0.586	0.999	2.279	0.666	0.965	1.950
0.00	-0.125	1.352	2.306	4.584	1.501	2.175	4.126
0.25	0.125	2.508	4.277	8.862	3.340	4.840	8.965
0.50	0.375	3.896	6.645	15.507	4.843	7.018	15.983
0.75	0.625	5.181	8.836	24.343	6.977	10.110	26.094
1.00	0.875	11.983	20.437	44.780	15.958	23.125	49.218
1.25	1.125	9.501	16.204	60.984	11.566	16.760	65.978
1.50	1.375	10.855	18.513	79.498	11.383	16.495	82.473
1.75	1.625	6.539	11.152	90.650	6.947	10.067	92.540
2.00	1.875	3.332	5.683	96.333	3.372	4.886	97.426
2.25	2.125	1.201	2.048	98.381	1.027	1.488	98.915
2.50	2.375	0.415	0.708	99.089	0.362	0.525	99.439
2.75	2.625	0.313	0.534	99.623	0.241	0.349	99.788
3.00	2.875	0.151	0.258	99.881	0.103	0.149	99.938
3.25	3.125	0.043	0.073	99.954	0.028	0.041	99.978
3.50	3.375	0.020	0.034	99.988	0.011	0.016	99.994
3.75	3.625	0.006	0.010	99.998	0.003	0.004	99.999
4.00	3.875	0.000	0.000	99.998	0.001	0.001	100.000
5.00	4.500	0.001	0.002	100.000	0.001	0.001	100.001



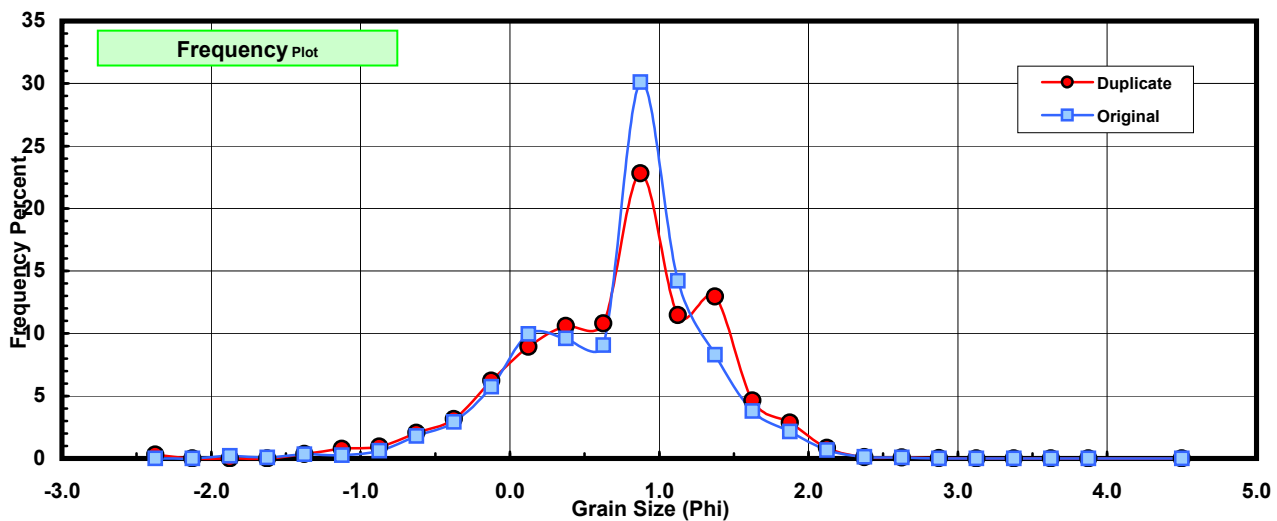


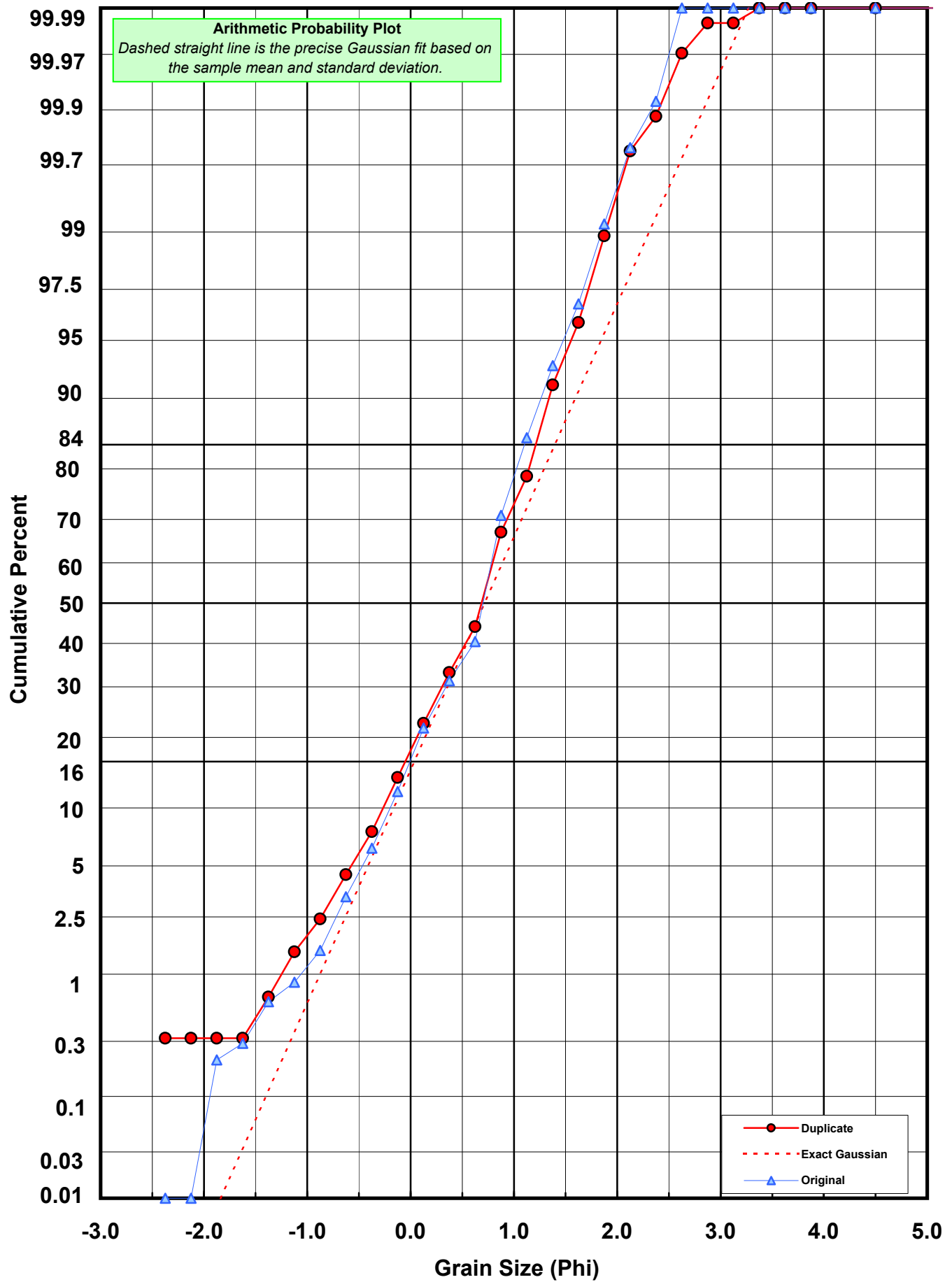
Carbonate Grain Size Distribution

Onshore Grab Sample: BV-11-BB

Total Duplicate Carbonate Mass: 16.688 grams
% Carbonate in Duplicate: 28.4 %
Total Original Carbonate Mass: 20.241 grams
% Carbonate in Original: 29.3 %

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	0.053	0.318	0.318	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.318	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.318	0.042	0.207	0.207
-1.50	-1.625	0.000	0.000	0.318	0.016	0.079	0.287
-1.25	-1.375	0.061	0.366	0.683	0.069	0.341	0.627
-1.00	-1.125	0.130	0.779	1.462	0.052	0.257	0.884
-0.75	-0.875	0.158	0.947	2.409	0.123	0.608	1.492
-0.50	-0.625	0.340	2.037	4.446	0.365	1.803	3.295
-0.25	-0.375	0.527	3.158	7.604	0.592	2.925	6.220
0.00	-0.125	1.038	6.220	13.824	1.159	5.726	11.946
0.25	0.125	1.492	8.941	22.765	2.015	9.955	21.901
0.50	0.375	1.770	10.606	33.371	1.942	9.594	31.495
0.75	0.625	1.802	10.798	44.169	1.832	9.051	40.546
1.00	0.875	3.807	22.813	66.982	6.095	30.112	70.659
1.25	1.125	1.916	11.481	78.464	2.877	14.214	84.872
1.50	1.375	2.163	12.961	91.425	1.681	8.305	93.177
1.75	1.625	0.774	4.638	96.063	0.765	3.779	96.957
2.00	1.875	0.477	2.858	98.921	0.437	2.159	99.116
2.25	2.125	0.142	0.851	99.772	0.136	0.672	99.788
2.50	2.375	0.019	0.114	99.886	0.026	0.128	99.916
2.75	2.625	0.014	0.084	99.970	0.017	0.084	100.000
3.00	2.875	0.003	0.018	99.988	0.000	0.000	100.000
3.25	3.125	0.000	0.000	99.988	0.000	0.000	100.000
3.50	3.375	0.002	0.012	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-11-BB

Total Duplicate Digested Mass: 41.956 grams
% Silica in Duplicate: 71.6 %
Total Original Digested Mass: 48.793 grams
% Silica in Original: 70.7 %

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	0.008	0.019	0.019	0.013	0.027	0.027
-0.25	-0.375	0.059	0.141	0.160	0.074	0.152	0.178
0.00	-0.125	0.314	0.748	0.908	0.342	0.701	0.879
0.25	0.125	1.016	2.422	3.330	1.325	2.716	3.595
0.50	0.375	2.126	5.067	8.397	2.901	5.946	9.540
0.75	0.625	3.379	8.054	16.451	5.145	10.545	20.085
1.00	0.875	8.176	19.487	35.938	9.863	20.214	40.299
1.25	1.125	7.585	18.078	54.016	8.689	17.808	58.107
1.50	1.375	8.692	20.717	74.733	9.702	19.884	77.991
1.75	1.625	5.765	13.741	88.474	6.182	12.670	90.661
2.00	1.875	2.855	6.805	95.278	2.935	6.015	96.676
2.25	2.125	1.059	2.524	97.802	0.891	1.826	98.502
2.50	2.375	0.396	0.944	98.746	0.336	0.689	99.190
2.75	2.625	0.299	0.713	99.459	0.224	0.459	99.650
3.00	2.875	0.148	0.353	99.812	0.106	0.217	99.867
3.25	3.125	0.047	0.112	99.924	0.035	0.072	99.939
3.50	3.375	0.018	0.043	99.967	0.014	0.029	99.967
3.75	3.625	0.008	0.019	99.986	0.005	0.010	99.977
4.00	3.875	0.001	0.002	99.988	0.003	0.006	99.984
5.00	4.500	0.005	0.012	100.000	0.008	0.016	100.000

