

Quality Control Statistical Summary

Onshore Grab Sample: SL-07-BB

Sample Taken By: D. Phelps
 Sample Taken On: 10/31/08
 County: St. Lucie

Latitude: 27° 28' 33.7"
 Longitude: 80° 17' 29.4"
 Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	1.5771	phi (0.3352 mm)	1.5543	phi (0.3405 mm)
Standard Dev:	0.6323	phi-units (0.6451 mm)	0.6423	phi-units (0.6407 mm)
Skewness:	-0.8057	dimensionless	-0.6083	dimensionless
Kurtosis:	4.9873	dimensionless	3.9722	dimensionless
5th Moment:	-13.4741	dimensionless	-7.0848	dimensionless
6th Moment:	71.2161	dimensionless	36.6254	dimensionless
RARD*:	0.4009	dimensionless	0.4132	dimensionless
Median:	1.5294	phi (0.3464 mm)	1.5087	phi (0.3514 mm)

Statistical Results: CaCO3				
	Duplicate		Original	
Mean:	1.3554	phi (0.3908 mm)	1.3273	phi (0.3985 mm)
Standard Dev:	0.7983	phi-units (0.575 mm)	0.7935	phi-units (0.577 mm)
Skewness:	-0.6589	dimensionless	-0.3650	dimensionless
Kurtosis:	3.6898	dimensionless	2.8293	dimensionless
5th Moment:	-8.1084	dimensionless	-3.6964	dimensionless
6th Moment:	33.9523	dimensionless	16.6416	dimensionless
RARD*:	0.5890	dimensionless	0.5978	dimensionless
Median:	1.3636	phi (0.3886 mm)	1.2675	phi (0.4154 mm)

Statistical Results: Post-CaCO3				
	Duplicate		Original	
Mean:	1.6872	phi (0.3105 mm)	1.6736	phi (0.3135 mm)
Standard Dev:	0.5137	phi-units (0.7004 mm)	0.5189	phi-units (0.6979 mm)
Skewness:	-0.1470	dimensionless	-0.1870	dimensionless
Kurtosis:	3.7767	dimensionless	3.6883	dimensionless
5th Moment:	0.3251	dimensionless	-0.4064	dimensionless
6th Moment:	27.3796	dimensionless	24.8732	dimensionless
RARD*:	0.3045	dimensionless	0.3101	dimensionless
Median:	1.5935	phi (0.3314 mm)	1.5818	phi (0.3341 mm)

Additional Data	
Total Fines	
Original:	0.09 %
Duplicate:	0.15 %
Total Carbonates	
Original:	34.44 %
Duplicate:	32.9 %

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)

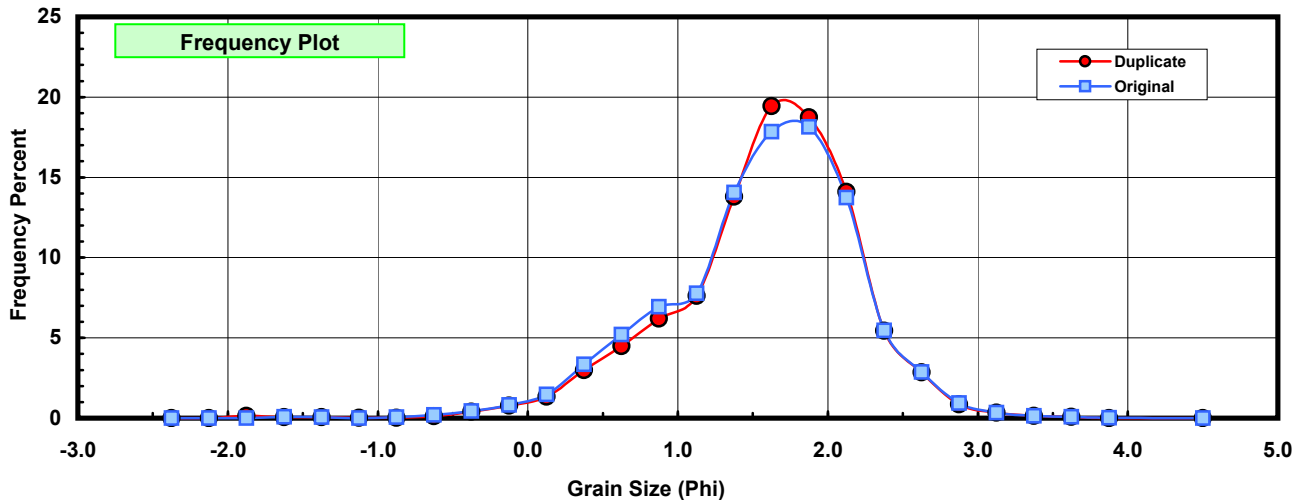
Pre-Digestion Grain Size Distribution

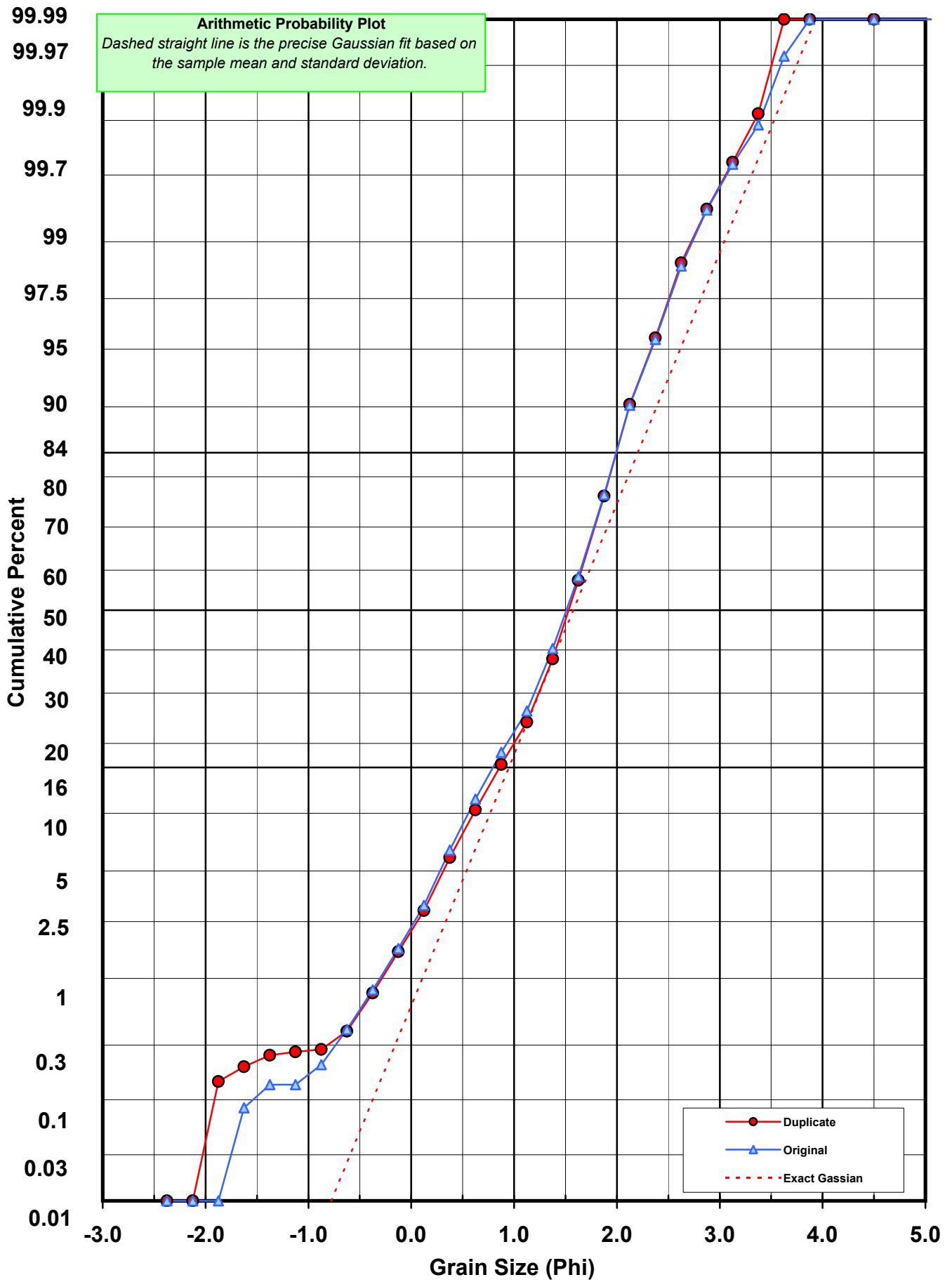
Onshore Grab Sample: SL-07-BB

Total Duplicate Sample Mass: 53.938 grams

Total Original Sample Mass: 61.292 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	0.078	0.145	0.145	0.000	0.000	0.000
-1.50	-1.625	0.027	0.050	0.195	0.052	0.085	0.085
-1.25	-1.375	0.027	0.050	0.245	0.031	0.051	0.135
-1.00	-1.125	0.009	0.017	0.261	0.000	0.000	0.135
-0.75	-0.875	0.007	0.013	0.274	0.041	0.067	0.202
-0.50	-0.625	0.063	0.117	0.391	0.124	0.202	0.405
-0.25	-0.375	0.214	0.397	0.788	0.263	0.429	0.834
0.00	-0.125	0.420	0.779	1.567	0.500	0.816	1.649
0.25	0.125	0.722	1.339	2.905	0.903	1.473	3.123
0.50	0.375	1.616	2.996	5.901	2.057	3.356	6.479
0.75	0.625	2.423	4.492	10.393	3.190	5.205	11.683
1.00	0.875	3.348	6.207	16.601	4.254	6.941	18.624
1.25	1.125	4.103	7.607	24.207	4.764	7.773	26.397
1.50	1.375	7.441	13.795	38.003	8.618	14.061	40.457
1.75	1.625	10.481	19.432	57.434	10.936	17.842	58.300
2.00	1.875	10.110	18.744	76.178	11.117	18.138	76.437
2.25	2.125	7.601	14.092	90.270	8.417	13.733	90.170
2.50	2.375	2.939	5.449	95.719	3.346	5.459	95.629
2.75	2.625	1.535	2.846	98.565	1.754	2.862	98.491
3.00	2.875	0.466	0.864	99.429	0.570	0.930	99.421
3.25	3.125	0.183	0.339	99.768	0.207	0.338	99.759
3.50	3.375	0.078	0.145	99.913	0.081	0.132	99.891
3.75	3.625	0.047	0.087	100.000	0.052	0.085	99.976
4.00	3.875	0.000	0.000	100.000	0.015	0.024	100.000
5.00	4.500	0.000	0.000	100.000	0.000	0.000	100.000



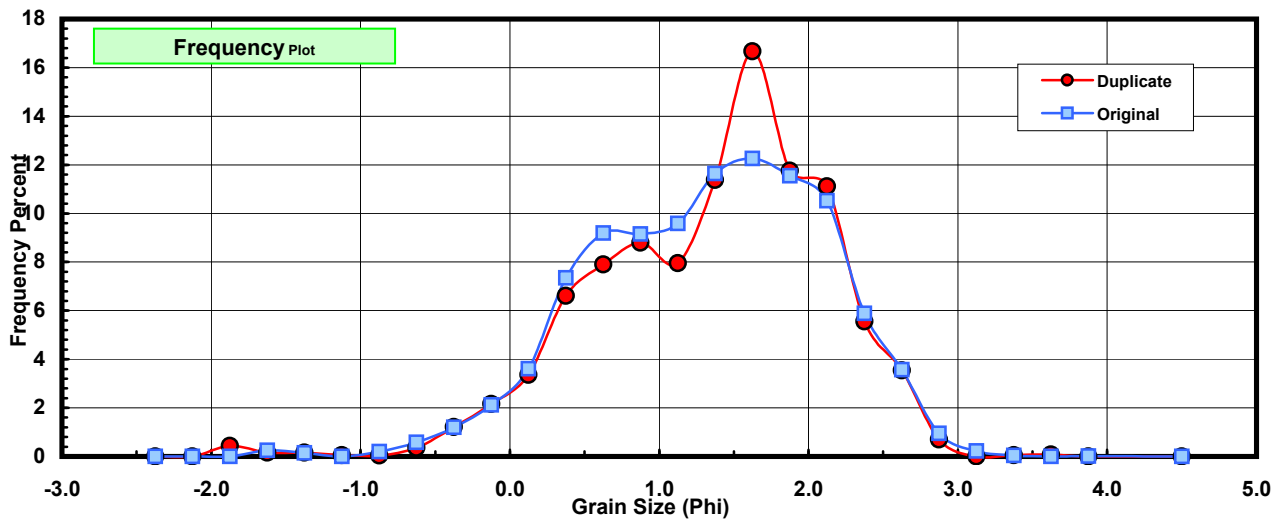


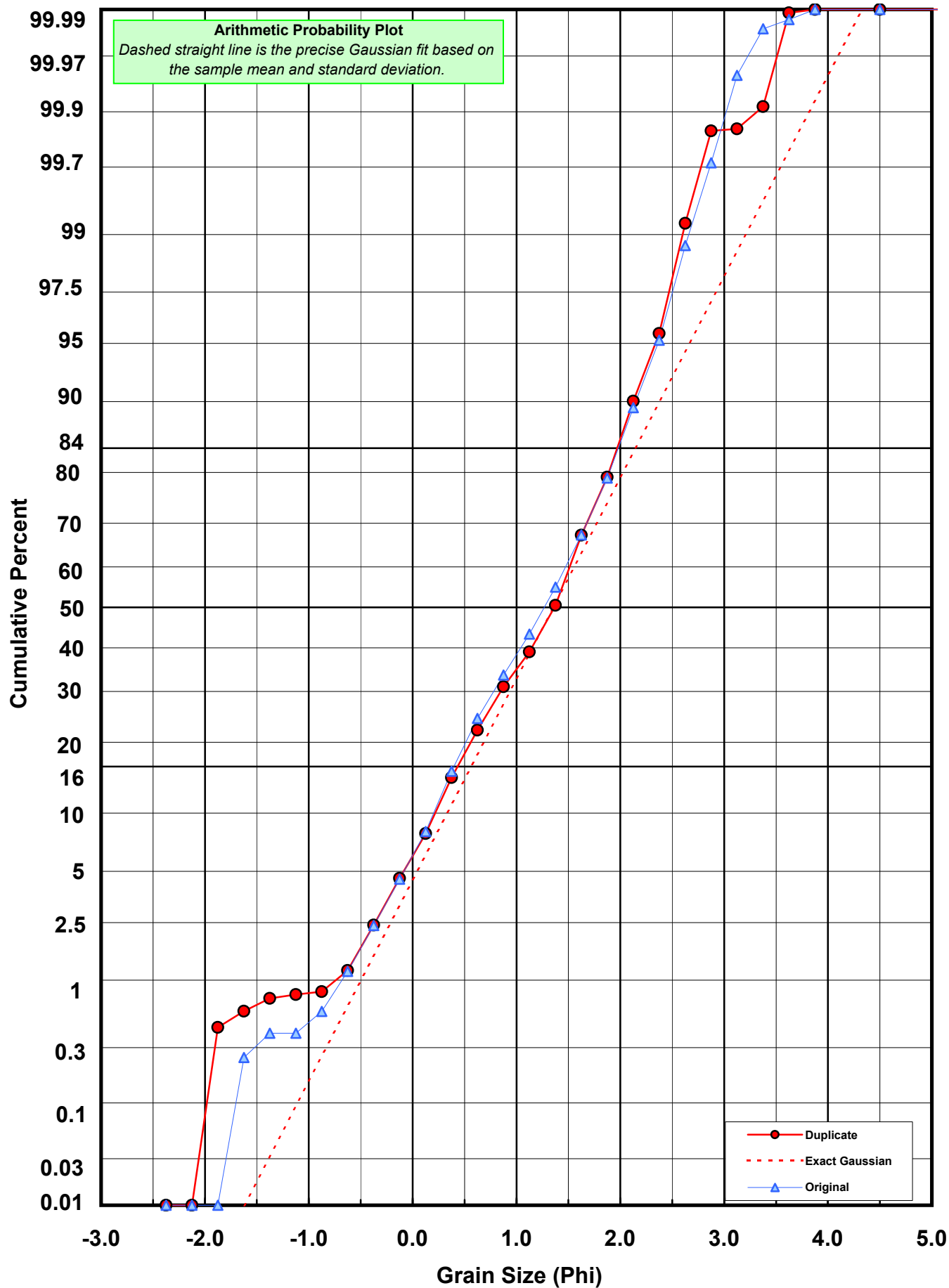
Carbonate Grain Size Distribution

Onshore Grab Sample: SL-07-BB

Total Duplicate Carbonate Mass: 17.756 grams
% Carbonate in Duplicate: 32.9 %
Total Original Carbonate Mass: 21.111 grams
% Carbonate in Original: 34.4 %

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	0.078	0.439	0.439	0.000	0.000	0.000
-1.50	-1.625	0.027	0.152	0.591	0.052	0.246	0.246
-1.25	-1.375	0.027	0.152	0.743	0.031	0.147	0.393
-1.00	-1.125	0.009	0.051	0.794	0.000	0.000	0.393
-0.75	-0.875	0.007	0.039	0.834	0.041	0.194	0.587
-0.50	-0.625	0.063	0.355	1.188	0.123	0.583	1.170
-0.25	-0.375	0.214	1.205	2.394	0.254	1.203	2.373
0.00	-0.125	0.383	2.157	4.551	0.448	2.122	4.495
0.25	0.125	0.596	3.357	7.907	0.762	3.609	8.105
0.50	0.375	1.173	6.606	14.513	1.552	7.352	15.456
0.75	0.625	1.402	7.896	22.409	1.939	9.185	24.641
1.00	0.875	1.561	8.791	31.201	1.931	9.147	33.788
1.25	1.125	1.411	7.947	39.147	2.023	9.583	43.371
1.50	1.375	2.019	11.371	50.518	2.456	11.634	55.005
1.75	1.625	2.961	16.676	67.194	2.589	12.264	67.268
2.00	1.875	2.088	11.759	78.954	2.437	11.544	78.812
2.25	2.125	1.974	11.117	90.071	2.220	10.516	89.328
2.50	2.375	0.986	5.553	95.624	1.243	5.888	95.216
2.75	2.625	0.628	3.537	99.161	0.753	3.567	98.783
3.00	2.875	0.123	0.693	99.854	0.199	0.943	99.725
3.25	3.125	0.001	0.006	99.859	0.048	0.227	99.953
3.50	3.375	0.009	0.051	99.910	0.007	0.033	99.986
3.75	3.625	0.015	0.084	99.994	0.001	0.005	99.991
4.00	3.875	0.001	0.006	100.000	0.002	0.009	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: SL-07-BB

Total Duplicate Digested Mass: 36.201 grams
% Silica in Duplicate: 67.1 %
Total Original Digested Mass: 40.181 grams
% Silica in Original: 65.6 %

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	0.001	0.002	0.002
-0.25	-0.375	0.000	0.000	0.000	0.009	0.022	0.025
0.00	-0.125	0.037	0.102	0.102	0.052	0.129	0.154
0.25	0.125	0.126	0.348	0.450	0.141	0.351	0.505
0.50	0.375	0.443	1.224	1.674	0.505	1.257	1.762
0.75	0.625	1.021	2.820	4.494	1.251	3.113	4.875
1.00	0.875	1.787	4.936	9.431	2.323	5.781	10.657
1.25	1.125	2.692	7.436	16.867	2.741	6.822	17.478
1.50	1.375	5.422	14.977	31.844	6.162	15.336	32.814
1.75	1.625	7.520	20.773	52.617	8.347	20.773	53.588
2.00	1.875	8.022	22.160	74.777	8.680	21.602	75.190
2.25	2.125	5.627	15.544	90.321	6.197	15.423	90.612
2.50	2.375	1.953	5.395	95.716	2.103	5.234	95.846
2.75	2.625	0.907	2.505	98.221	1.001	2.491	98.338
3.00	2.875	0.343	0.947	99.169	0.371	0.923	99.261
3.25	3.125	0.182	0.503	99.671	0.159	0.396	99.657
3.50	3.375	0.069	0.191	99.862	0.074	0.184	99.841
3.75	3.625	0.032	0.088	99.950	0.051	0.127	99.968
4.00	3.875	0.014	0.039	99.989	0.013	0.032	100.000
5.00	4.500	0.004	0.011	100.000	0.000	0.000	100.000

