

Quality Control Statistical Summary

Onshore Grab Sample: MO-08-BB

Sample Taken By: D. Phelps
 Sample Taken On: 04/14/10
 County: Monroe

Latitude: 24° 43' 40.4"
 Longitude: 80° 0' 18.6"
 Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	1.9160	phi (0.265 mm)	1.9007	phi (0.2678 mm)
Standard Dev:	1.1459	phi-units (0.4519 mm)	1.2146	phi-units (0.4309 mm)
Skewness:	-1.3584	dimensionless	-1.4466	dimensionless
Kurtosis:	4.8334	dimensionless	5.1308	dimensionless
5th Moment:	-13.2932	dimensionless	-14.5725	dimensionless
6th Moment:	43.7635	dimensionless	48.3071	dimensionless
RARD*:	0.5981	dimensionless	0.6390	dimensionless
Median:	2.1228	phi (0.2296 mm)	2.1374	phi (0.2273 mm)

Statistical Results: CaCO3
Not Enough Sample to do Post-Digestion Analysis

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Additional Data	
Total Fines	
Original:	4.22 %
Duplicate:	4.73 %
Total Carbonates	
Original:	89.61 %
Duplicate:	88.37 %

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)

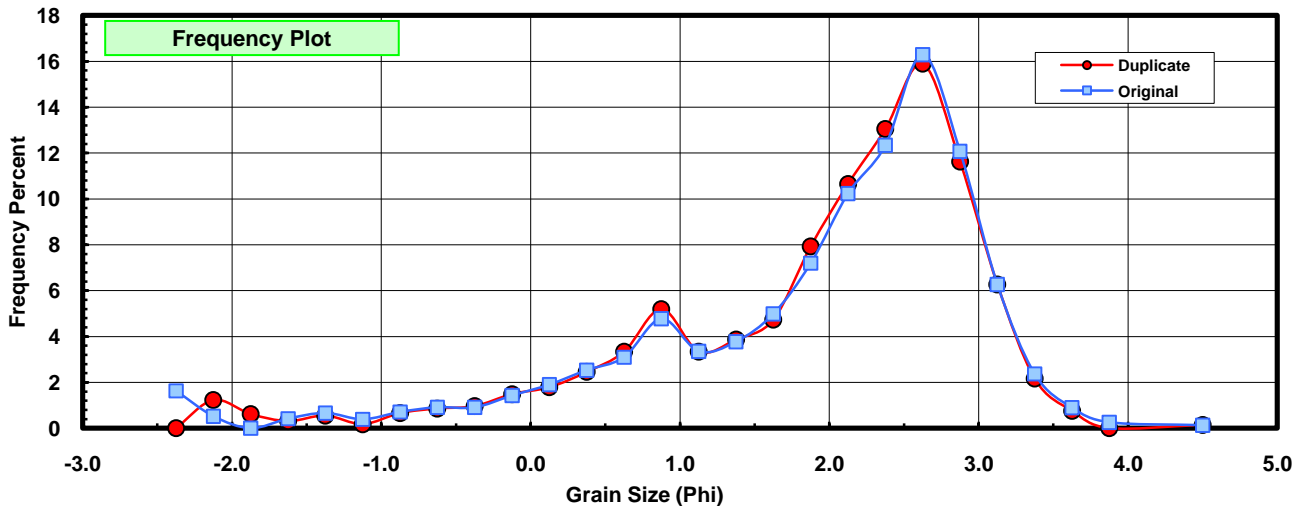
Pre-Digestion Grain Size Distribution

Onshore Grab Sample: MO-08-BB

Total Duplicate Sample Mass: 31.689 grams

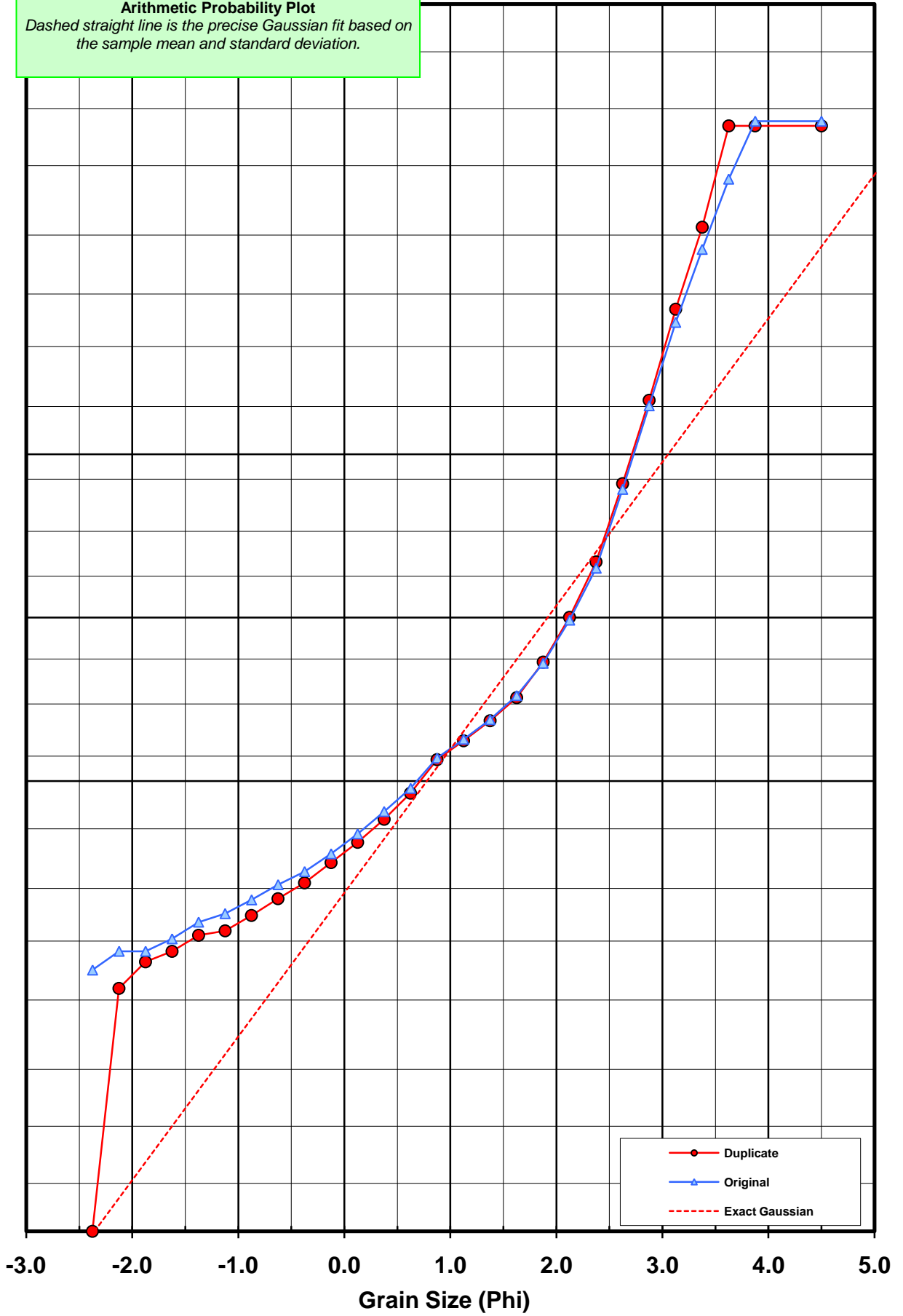
Total Original Sample Mass: 35.550 grams

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	0.578	1.626	1.626
-2.00	-2.125	0.388	1.224	1.224	0.184	0.518	2.143
-1.75	-1.875	0.194	0.612	1.837	0.000	0.000	2.143
-1.50	-1.625	0.097	0.306	2.143	0.147	0.414	2.557
-1.25	-1.375	0.173	0.546	2.689	0.235	0.661	3.218
-1.00	-1.125	0.055	0.174	2.862	0.137	0.385	3.603
-0.75	-0.875	0.208	0.656	3.519	0.251	0.706	4.309
-0.50	-0.625	0.271	0.855	4.374	0.323	0.909	5.218
-0.25	-0.375	0.304	0.959	5.333	0.322	0.906	6.124
0.00	-0.125	0.471	1.486	6.819	0.506	1.423	7.547
0.25	0.125	0.565	1.783	8.602	0.676	1.902	9.449
0.50	0.375	0.777	2.452	11.054	0.900	2.532	11.980
0.75	0.625	1.057	3.336	14.390	1.100	3.094	15.075
1.00	0.875	1.645	5.191	19.581	1.697	4.774	19.848
1.25	1.125	1.057	3.336	22.916	1.191	3.350	23.198
1.50	1.375	1.225	3.866	26.782	1.342	3.775	26.973
1.75	1.625	1.500	4.734	31.516	1.772	4.985	31.958
2.00	1.875	2.512	7.927	39.443	2.558	7.195	39.153
2.25	2.125	3.375	10.650	50.093	3.638	10.233	49.387
2.50	2.375	4.135	13.049	63.142	4.385	12.335	61.722
2.75	2.625	5.039	15.901	79.043	5.791	16.290	78.011
3.00	2.875	3.686	11.632	90.675	4.293	12.076	90.087
3.25	3.125	1.988	6.273	96.948	2.230	6.273	96.360
3.50	3.375	0.685	2.162	99.110	0.841	2.366	98.726
3.75	3.625	0.238	0.751	99.861	0.317	0.892	99.617
4.00	3.875	0.000	0.000	99.861	0.091	0.256	99.873
5.00	4.500	0.044	0.139	100.000	0.045	0.127	100.000



99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01

Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.



● Duplicate
▲ Original
- - - Exact Gaussian