

Quality Control Statistical Summary

Onshore Grab Sample: ES-01-BB

Sample Taken By: D. Phelps

Latitude: 30° 16' 50.2" N

Sample Taken On: 03/29/11

Longitude: 87° 31' 3.2" W

County: Escambia

Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	1.6337	phi (0.3223 mm)	1.5670	phi (0.3375 mm)
Standard Dev:	0.3854	phi-units (0.7656 mm)	0.3978	phi-units (0.759 mm)
Skewness:	-0.2656	dimensionless	-0.7245	dimensionless
Kurtosis:	5.8412	dimensionless	8.2859	dimensionless
5th Moment:	-11.3247	dimensionless	-33.0651	dimensionless
6th Moment:	147.3253	dimensionless	289.0302	dimensionless
RARD*:	0.2359	dimensionless	0.2538	dimensionless
Median:	1.5182	phi (0.3491 mm)	1.4539	phi (0.365 mm)

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

Statistical Results: Post-CaCO3	
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Additional Data	
Total Fines	
Original:	0.02 %
Duplicate:	0.04 %
Total Carbonates	
Original:	0.54 %
Duplicate:	0.28 %

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

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Total Duplicate Sample Mass: 64.334 grams

Total Original Sample Mass: 46.151 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	0.000	0.000	0.000	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000	0.019	0.041	0.041
-1.25	-1.375	0.020	0.031	0.031	0.000	0.000	0.041
-1.00	-1.125	0.007	0.011	0.042	0.054	0.117	0.158
-0.75	-0.875	0.000	0.000	0.042	0.000	0.000	0.158
-0.50	-0.625	0.023	0.036	0.078	0.030	0.065	0.223
-0.25	-0.375	0.005	0.008	0.085	0.019	0.041	0.264
0.00	-0.125	0.014	0.022	0.107	0.022	0.048	0.312
0.25	0.125	0.044	0.068	0.176	0.032	0.069	0.381
0.50	0.375	0.163	0.253	0.429	0.107	0.232	0.613
0.75	0.625	0.474	0.737	1.166	0.453	0.982	1.595
1.00	0.875	2.454	3.814	4.980	2.370	5.135	6.730
1.25	1.125	5.310	8.254	13.234	4.726	10.240	16.970
1.50	1.375	13.237	20.575	33.809	11.310	24.507	41.477
1.75	1.625	18.183	28.263	62.073	12.468	27.016	68.493
2.00	1.875	15.607	24.259	86.332	9.772	21.174	89.667
2.25	2.125	6.032	9.376	95.708	3.437	7.447	97.114
2.50	2.375	2.076	3.227	98.935	1.031	2.234	99.348
2.75	2.625	0.441	0.685	99.621	0.204	0.442	99.790
3.00	2.875	0.131	0.204	99.824	0.059	0.128	99.918
3.25	3.125	0.056	0.087	99.911	0.016	0.035	99.952
3.50	3.375	0.039	0.061	99.972	0.011	0.024	99.976
3.75	3.625	0.013	0.020	99.992	0.003	0.007	99.983
4.00	3.875	0.000	0.000	99.992	0.004	0.009	99.991
5.00	4.500	0.005	0.008	100.000	0.004	0.009	100.000



