

Quality Control Statistical Summary

Onshore Grab Sample: ES-24-BB

Sample Taken By: D. Phelps

Latitude: 30° 19' 39.9" N

Sample Taken On: 03/28/11

Longitude: 87° 9' 29.2" W

County: Escambia

Datum: WGS 84

Statistical Results: Pre-CaCO3						
	Duplicate			Original		
Mean:	1.4819	phi	(0.358 mm)	1.5104	phi	(0.351 mm)
Standard Dev:	0.3508	phi-units	(0.7842 mm)	0.3110	phi-units	(0.8061 mm)
Skewness:	-0.0956	dimensionless		0.0679	dimensionless	
Kurtosis:	4.6809	dimensionless		4.7038	dimensionless	
5th Moment:	2.2141	dimensionless		6.8261	dimensionless	
6th Moment:	68.4739	dimensionless		91.4327	dimensionless	
RARD*:	0.2367	dimensionless		0.2059	dimensionless	
Median:	1.3619	phi	(0.3891 mm)	1.3863	phi	(0.3825 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:	0.02 %
Total Carbonates	
Original:	13.21 %
Duplicate:	0.21 %

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: ES-24-BB

Total Duplicate Sample Mass: 49.676 grams

Total Original Sample Mass: 56.551 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	0.000	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	0.000	0.000	0.000
0.00	-0.125	0.037	0.074	0.074	0.000	0.000	0.000
0.25	0.125	0.076	0.153	0.227	0.043	0.076	0.076
0.50	0.375	0.243	0.489	0.717	0.093	0.164	0.240
0.75	0.625	0.632	1.272	1.989	0.289	0.511	0.752
1.00	0.875	3.050	6.140	8.129	2.316	4.095	4.847
1.25	1.125	6.289	12.660	20.789	6.698	11.844	16.691
1.50	1.375	15.312	30.824	51.612	18.021	31.867	48.558
1.75	1.625	14.474	29.137	80.749	18.036	31.893	80.451
2.00	1.875	7.137	14.367	95.116	8.647	15.291	95.742
2.25	2.125	1.704	3.430	98.547	1.831	3.238	98.980
2.50	2.375	0.496	0.998	99.545	0.409	0.723	99.703
2.75	2.625	0.155	0.312	99.857	0.105	0.186	99.889
3.00	2.875	0.043	0.087	99.944	0.039	0.069	99.958
3.25	3.125	0.015	0.030	99.974	0.011	0.019	99.977
3.50	3.375	0.007	0.014	99.988	0.006	0.011	99.988
3.75	3.625	0.003	0.006	99.994	0.003	0.005	99.993
4.00	3.875	0.000	0.000	99.994	0.001	0.002	99.995
5.00	4.500	0.003	0.006	100.000	0.003	0.005	100.000



