

Quality Control Statistical Summary

Onshore Grab Sample: OA-03-MB

Sample Taken By: J. Ladner
 Sample Taken On: 09/14/06
 County: Okaloosa

Latitude: 30° 23' 24.11"
 Longitude: 86° 46' 17.56"
 Datum: NAD 83

Statistical Results: Pre-CaCO3			
	Duplicate		Original
Mean:	1.3270	phi (0.3986 mm)	1.2845 phi (0.4105 mm)
Standard Dev:	0.4006	phi-units (0.7575 mm)	0.3808 phi-units (0.768 mm)
Skewness:	0.2315	dimensionless	0.0181 dimensionless
Kurtosis:	4.3598	dimensionless	3.6486 dimensionless
5th Moment:	6.5048	dimensionless	0.9770 dimensionless
6th Moment:	60.9187	dimensionless	36.9483 dimensionless
RARD*:	0.3019	dimensionless	0.2965 dimensionless
Median:	1.2053	phi (0.4337 mm)	1.1559 phi (0.4488 mm)

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

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Additional Data	
Total Fines	
Original:	0.03 %
Duplicate:	0.04 %
Total Carbonates	
Original:	-0.49 %
Duplicate:	0.47 %

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: 72.150 grams

Total Original Sample Mass: 56.448 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	0.041	0.057	0.057	0.032	0.057	0.057
0.00	-0.125	0.049	0.068	0.125	0.069	0.122	0.179
0.25	0.125	0.182	0.252	0.377	0.195	0.345	0.524
0.50	0.375	1.059	1.468	1.845	0.753	1.334	1.858
0.75	0.625	2.505	3.472	5.317	2.227	3.945	5.804
1.00	0.875	10.909	15.120	20.437	9.308	16.490	22.293
1.25	1.125	14.920	20.679	41.116	13.854	24.543	46.836
1.50	1.375	19.964	27.670	68.786	14.430	25.563	72.399
1.75	1.625	13.491	18.699	87.484	9.661	17.115	89.514
2.00	1.875	6.340	8.787	96.272	4.487	7.949	97.463
2.25	2.125	1.606	2.226	98.498	1.161	2.057	99.520
2.50	2.375	0.597	0.827	99.325	0.221	0.392	99.911
2.75	2.625	0.298	0.413	99.738	0.002	0.004	99.915
3.00	2.875	0.132	0.183	99.921	0.020	0.035	99.950
3.25	3.125	0.033	0.046	99.967	0.024	0.043	99.993
3.50	3.375	0.009	0.012	99.979	0.001	0.002	99.995
3.75	3.625	0.008	0.011	99.990	0.001	0.002	99.996
4.00	3.875	0.000	0.000	99.990	0.001	0.002	99.998
5.00	4.500	0.007	0.010	100.000	0.001	0.002	100.000



