

Onshore Grab Sample

Sample: ES-10-BB
Sample Taken By: D. Phelps
Sample Collected On: 3/29/11
Splits? N/A

County: Escambia
Latitude: 30° 18' 30.1" N
Longitude: 87° 22' 27" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	51.888 grams
Total Fines in Sample	0.005 grams
Total Percent Fines	0.01 %

Dry Sieving Summary

Total Sample Weight	52.028 grams
Total Digested Weight	51.667 grams
Total Carbonate Weight	0.361 grams
Total Silica %	99.31 %
Total Carbonate %	0.69 %
Carbonate/Silica Ratio	0.007

General Comments:

Not Enough Carbonate Material to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

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Total Sample Mass: 52.028 grams

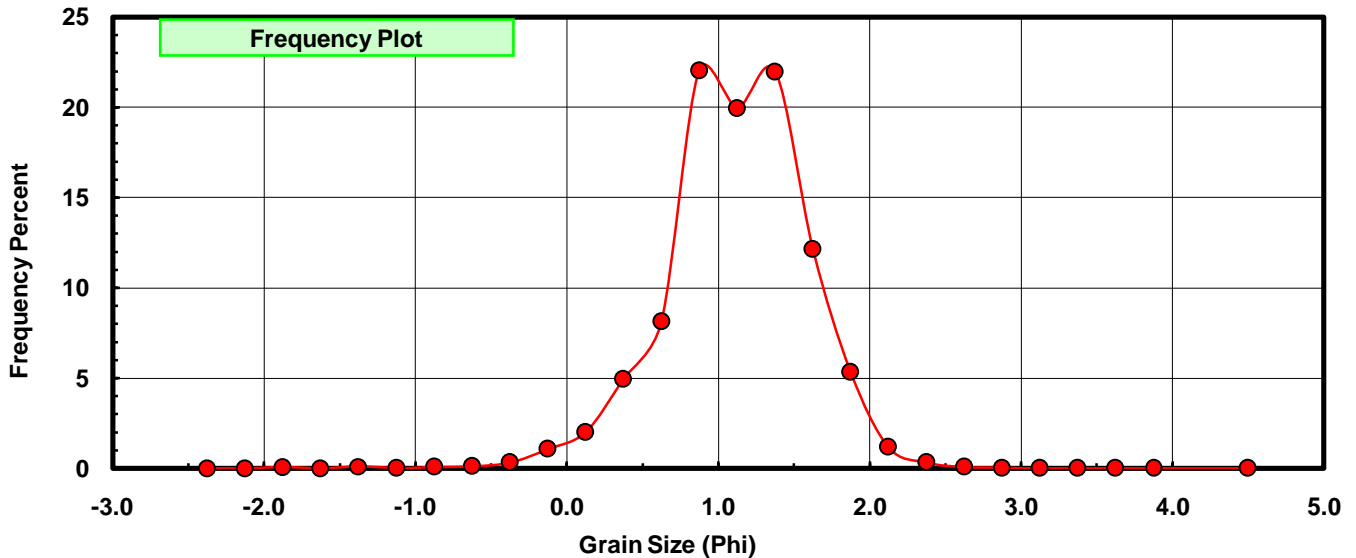
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.037	0.071	0.071
-1.50	-1.625	0.000	0.000	0.071
-1.25	-1.375	0.056	0.108	0.179
-1.00	-1.125	0.012	0.023	0.202
-0.75	-0.875	0.044	0.085	0.286
-0.50	-0.625	0.064	0.123	0.409
-0.25	-0.375	0.173	0.333	0.742
0.00	-0.125	0.563	1.082	1.824
0.25	0.125	1.046	2.010	3.834
0.50	0.375	2.575	4.949	8.784
0.75	0.625	4.230	8.130	16.914
1.00	0.875	11.471	22.048	38.962
1.25	1.125	10.384	19.958	58.920
1.50	1.375	11.432	21.973	80.893
1.75	1.625	6.315	12.138	93.031
2.00	1.875	2.775	5.334	98.364
2.25	2.125	0.610	1.172	99.537
2.50	2.375	0.167	0.321	99.858
2.75	2.625	0.038	0.073	99.931
3.00	2.875	0.014	0.027	99.958
3.25	3.125	0.007	0.013	99.971
3.50	3.375	0.006	0.012	99.983
3.75	3.625	0.003	0.006	99.988
4.00	3.875	0.004	0.008	99.996
5.00	4.50	0.002	0.004	100.000

Statistical Results			
Mean:	1.1182	phi	(0.4607 mm)
Standard Dev:	0.4775	phi-units	(0.7182 mm)
Skewness:	-0.6091	dimensionless	
Kurtosis:	5.5231	dimensionless	
5th Moment:	-13.4779	dimensionless	
6th Moment:	101.1245	dimensionless	
RARD *	0.4270	dimensionless	
Median	1.0133	phi	(0.4954 mm)

* RARD = reciprocal absolute relative dispersion (see below)

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	
For Further Explanation, See Basille et al. 2002	
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)



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