

**Onshore Grab Sample**

**Sample:** ES-21-BB  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 3/28/11  
**Splits?** N/A

**County:** Escambia  
**Latitude:** 30° 19' 20.6" N  
**Longitude:** 87° 12' 13" W  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight	45.769 grams
Total Fines in Sample	0.008 grams
Total Percent Fines	0.02 %

**Dry Sieving Summary**

Total Sample Weight	45.963 grams
Total Digested Weight	57.616 grams
Total Carbonate Weight	-11.653 grams
Total Silica %	125.35 %
Total Carbonate %	-25.35 %
Carbonate/Silica Ratio	-0.202

**General Comments:**

Not Enough Carbonate Material to do Post-Digestion Analysis

**Description**

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: ES-21-BB

Total Sample Mass: 45.963 grams

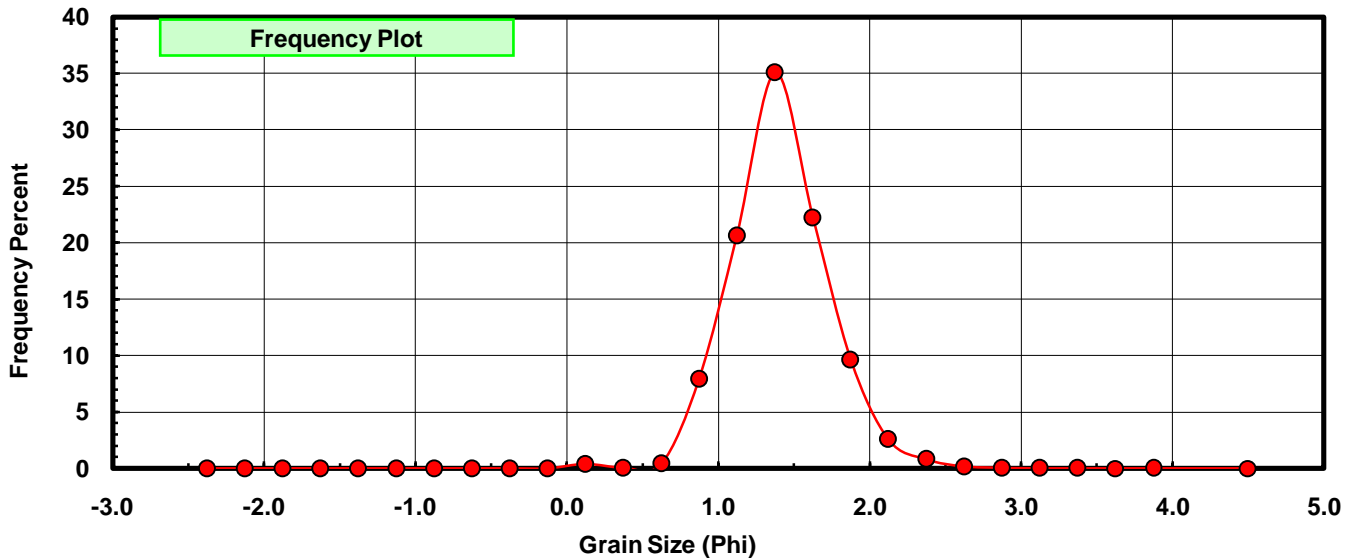
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.174	0.379	0.379
0.50	0.375	0.026	0.057	0.435
0.75	0.625	0.194	0.422	0.857
1.00	0.875	3.641	7.922	8.779
1.25	1.125	9.487	20.641	29.419
1.50	1.375	16.127	35.087	64.506
1.75	1.625	10.212	22.218	86.724
2.00	1.875	4.428	9.634	96.358
2.25	2.125	1.185	2.578	98.936
2.50	2.375	0.374	0.814	99.750
2.75	2.625	0.078	0.170	99.920
3.00	2.875	0.019	0.041	99.961
3.25	3.125	0.008	0.017	99.978
3.50	3.375	0.005	0.011	99.989
3.75	3.625	0.001	0.002	99.991
4.00	3.875	0.003	0.007	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	1.4101	phi	(0.3763 mm)
Standard Dev:	0.3295	phi-units	(0.7958 mm)
Skewness:	0.2540	dimensionless	
Kurtosis:	4.5817	dimensionless	
5th Moment:	5.5349	dimensionless	
6th Moment:	70.3358	dimensionless	
RARD *	0.2337	dimensionless	
Median	1.2716	phi	(0.4142 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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