

**Onshore Grab Sample**

**Sample:** BY-10-BB  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 2/15/11  
**Splits?** N/A

**County:** Bay  
**Latitude:** 30° 12' 20.8" N  
**Longitude:** 85° 51' 33.5" W  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight	51.542 grams
Total Fines in Sample	0.009 grams
Total Percent Fines	0.02 %

**Dry Sieving Summary**

Total Sample Weight	51.646 grams
Total Digested Weight	51.536 grams
Total Carbonate Weight	0.110 grams
Total Silica %	99.79 %
Total Carbonate %	0.21 %
Carbonate/Silica Ratio	0.002

**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: BY-10-BB

Total Sample Mass: 51.646 grams

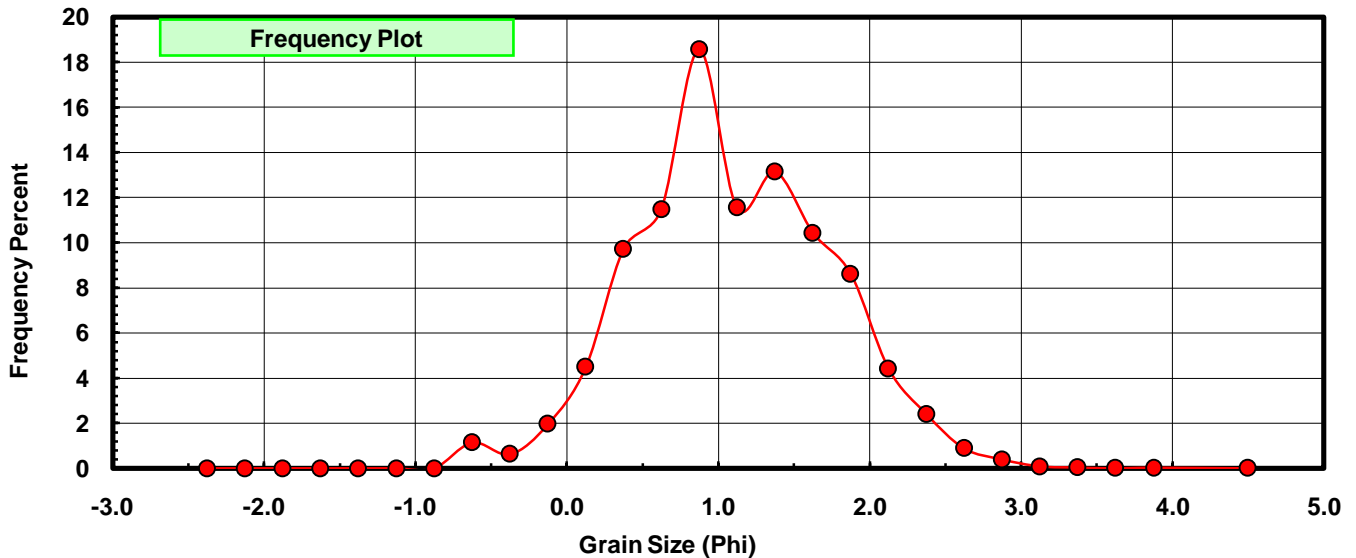
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.592	1.146	1.146
-0.25	-0.375	0.325	0.629	1.776
0.00	-0.125	1.012	1.959	3.735
0.25	0.125	2.320	4.492	8.227
0.50	0.375	5.021	9.722	17.949
0.75	0.625	5.929	11.480	29.429
1.00	0.875	9.584	18.557	47.986
1.25	1.125	5.964	11.548	59.534
1.50	1.375	6.790	13.147	72.681
1.75	1.625	5.390	10.436	83.118
2.00	1.875	4.448	8.612	91.730
2.25	2.125	2.283	4.420	96.151
2.50	2.375	1.245	2.411	98.561
2.75	2.625	0.461	0.893	99.454
3.00	2.875	0.201	0.389	99.843
3.25	3.125	0.044	0.085	99.928
3.50	3.375	0.019	0.037	99.965
3.75	3.625	0.005	0.010	99.975
4.00	3.875	0.009	0.017	99.992
5.00	4.50	0.004	0.008	100.000

Statistical Results			
Mean:	1.0971	phi	(0.4675 mm)
Standard Dev:	0.6573	phi-units	(0.6341 mm)
Skewness:	0.0869	dimensionless	
Kurtosis:	2.9354	dimensionless	
5th Moment:	0.8307	dimensionless	
6th Moment:	15.5818	dimensionless	
RARD *	0.5992	dimensionless	
Median	0.9186	phi	(0.529 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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