

Onshore Grab Sample

Sample: BY-09-BB
Sample Taken By: D. Phelps
Sample Collected On: 2/15/11
Splits? N/A

County: Bay
Latitude: 30° 12' 47.1" N
Longitude: 85° 52' 23.9" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 57.056 grams
Total Fines in Sample 0.023 grams
Total Percent Fines 0.04 %

Dry Sieving Summary

Total Sample Weight 57.439 grams
Total Digested Weight 56.348 grams
Total Carbonate Weight 1.091 grams
Total Silica % 98.10 %
Total Carbonate % 1.90 %
Carbonate/Silica Ratio 0.019

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: 57.439 grams

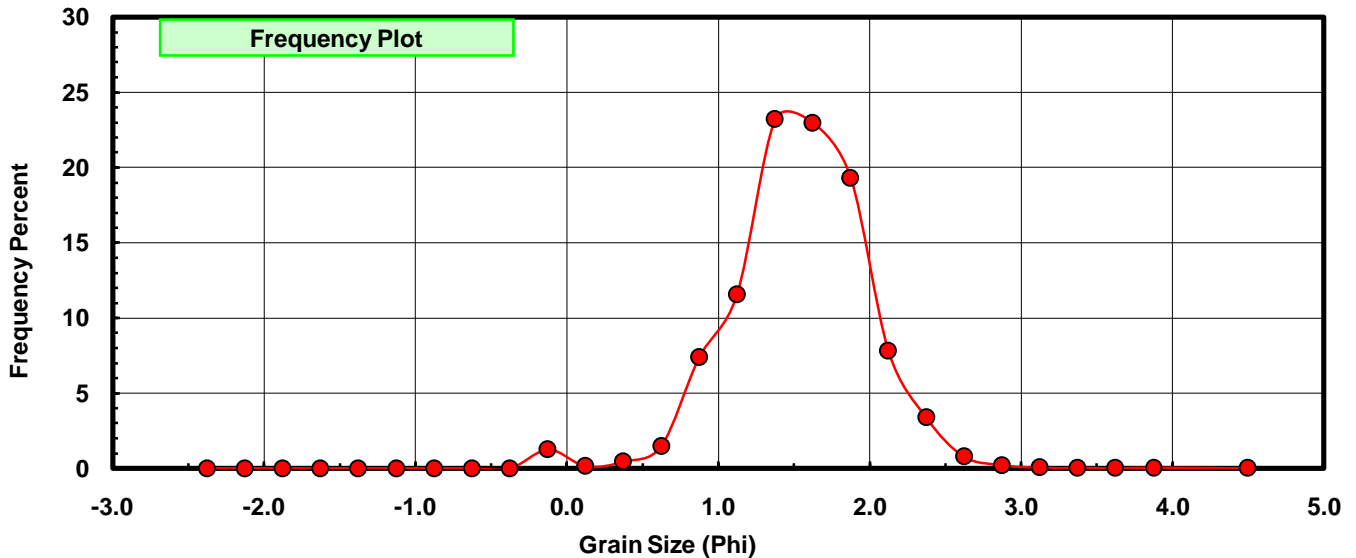
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.716	1.247	1.247
0.25	0.125	0.083	0.145	1.391
0.50	0.375	0.253	0.440	1.832
0.75	0.625	0.848	1.476	3.308
1.00	0.875	4.234	7.371	10.679
1.25	1.125	6.627	11.537	22.217
1.50	1.375	13.328	23.204	45.420
1.75	1.625	13.190	22.963	68.384
2.00	1.875	11.094	19.314	87.698
2.25	2.125	4.481	7.801	95.500
2.50	2.375	1.944	3.384	98.884
2.75	2.625	0.452	0.787	99.671
3.00	2.875	0.115	0.200	99.871
3.25	3.125	0.029	0.050	99.922
3.50	3.375	0.016	0.028	99.950
3.75	3.625	0.007	0.012	99.962
4.00	3.875	0.014	0.024	99.986
5.00	4.50	0.008	0.014	100.000

Statistical Results			
Mean:	1.5353	phi	(0.345 mm)
Standard Dev:	0.4582	phi-units	(0.7279 mm)
Skewness:	-0.4109	dimensionless	
Kurtosis:	4.8295	dimensionless	
5th Moment:	-4.4466	dimensionless	
6th Moment:	55.2149	dimensionless	
RARD *	0.2985	dimensionless	
Median	1.4249	phi	(0.3725 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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