

Onshore Grab Sample

Sample: BY-02-BB
Sample Taken By: D. Phelps
Sample Collected On: 2/15/11
Splits? N/A

County: Bay
Latitude: 30° 15' 29.7" N
Longitude: 85° 58' 6.6" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 45.103 grams
Total Fines in Sample 0.007 grams
Total Percent Fines 0.02 %

Dry Sieving Summary

Total Sample Weight 44.948 grams
Total Digested Weight 44.399 grams
Total Carbonate Weight 0.549 grams
Total Silica % 98.78 %
Total Carbonate % 1.22 %
Carbonate/Silica Ratio 0.012

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: 44.948 grams

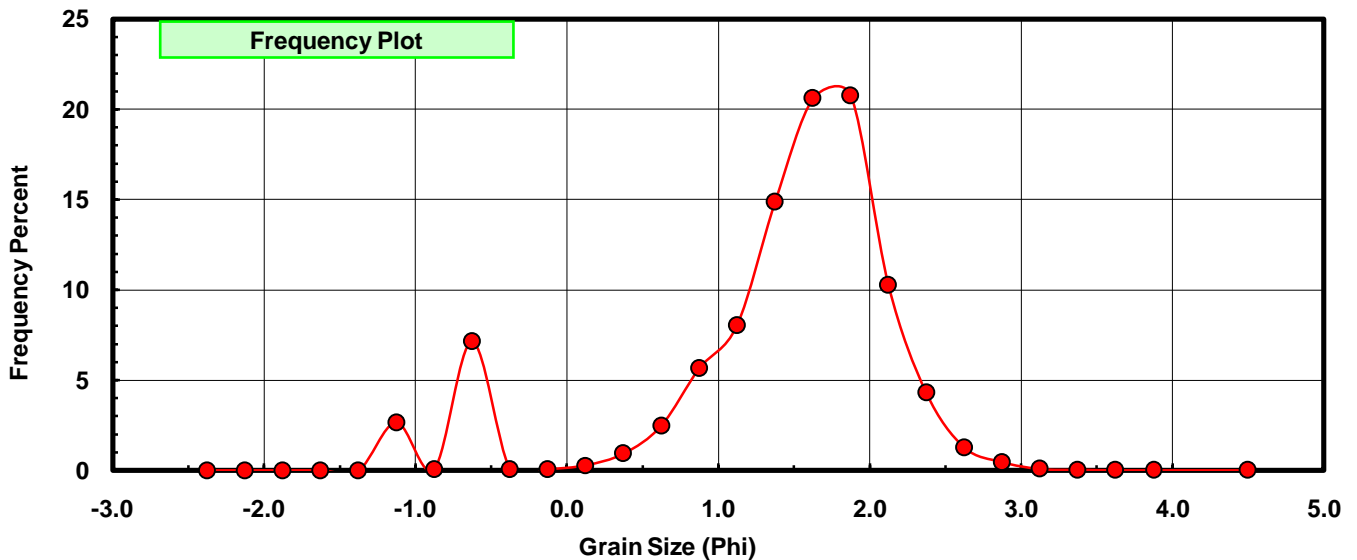
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	1.190	2.648	2.648
-0.75	-0.875	0.030	0.067	2.714
-0.50	-0.625	3.206	7.133	9.847
-0.25	-0.375	0.019	0.042	9.889
0.00	-0.125	0.032	0.071	9.960
0.25	0.125	0.128	0.285	10.245
0.50	0.375	0.420	0.934	11.180
0.75	0.625	1.113	2.476	13.656
1.00	0.875	2.540	5.651	19.307
1.25	1.125	3.609	8.029	27.336
1.50	1.375	6.690	14.884	42.220
1.75	1.625	9.261	20.604	62.824
2.00	1.875	9.334	20.766	83.590
2.25	2.125	4.609	10.254	93.844
2.50	2.375	1.934	4.303	98.147
2.75	2.625	0.574	1.277	99.424
3.00	2.875	0.203	0.452	99.875
3.25	3.125	0.036	0.080	99.956
3.50	3.375	0.013	0.029	99.984
3.75	3.625	0.004	0.009	99.993
4.00	3.875	0.002	0.004	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	1.3834	phi	(0.3833 mm)
Standard Dev:	0.8486	phi-units	(0.5553 mm)
Skewness:	-1.4787	dimensionless	
Kurtosis:	4.7721	dimensionless	
5th Moment:	-11.2981	dimensionless	
6th Moment:	31.9263	dimensionless	
RARD *	0.6134	dimensionless	
Median	1.4694	phi	(0.3611 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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