

Onshore Grab Sample

Sample: BY-31-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/31/11
Splits? N/A

County: Bay
Latitude: 30° 2' 43.4" N
Longitude: 85° 35' 18.7" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 42.339 grams
Total Fines in Sample 0.022 grams
Total Percent Fines 0.05 %

Dry Sieving Summary

Total Sample Weight 42.249 grams
Total Digested Weight 42.204 grams
Total Carbonate Weight 0.045 grams
Total Silica % 99.89 %
Total Carbonate % 0.11 %
Carbonate/Silica Ratio 0.001

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: 42.249 grams

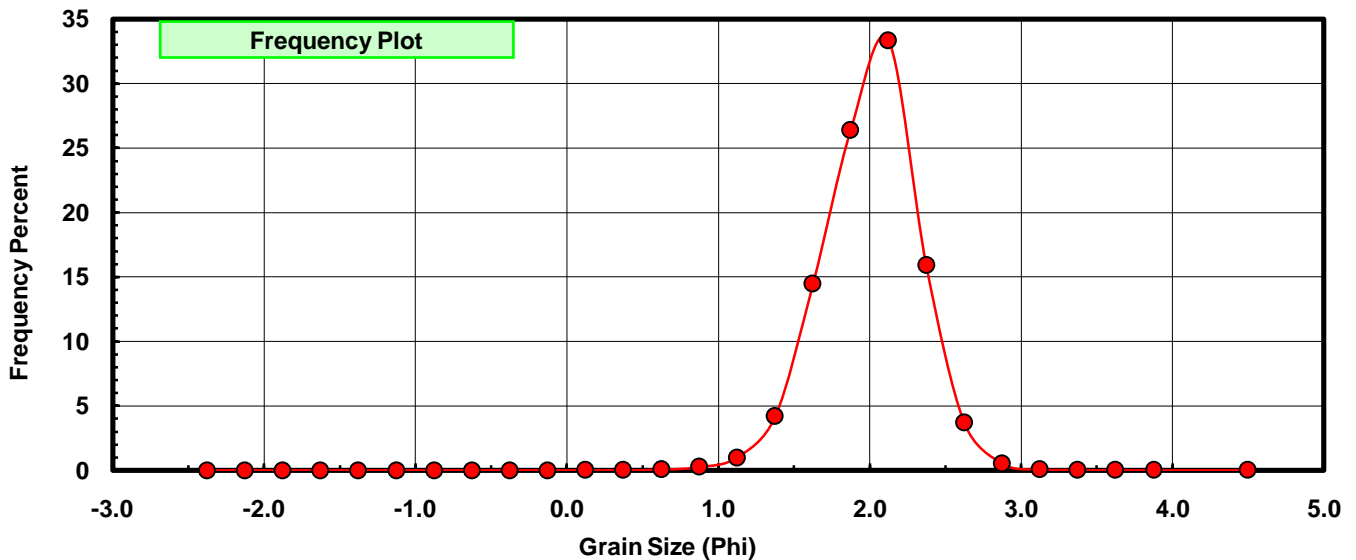
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-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	0.007	0.017	0.017
0.50	0.375	0.008	0.019	0.036
0.75	0.625	0.029	0.069	0.104
1.00	0.875	0.113	0.267	0.372
1.25	1.125	0.415	0.982	1.354
1.50	1.375	1.767	4.182	5.536
1.75	1.625	6.111	14.464	20.000
2.00	1.875	11.154	26.401	46.401
2.25	2.125	14.080	33.326	79.727
2.50	2.375	6.719	15.903	95.631
2.75	2.625	1.573	3.723	99.354
3.00	2.875	0.225	0.533	99.886
3.25	3.125	0.028	0.066	99.953
3.50	3.375	0.010	0.024	99.976
3.75	3.625	0.005	0.012	99.988
4.00	3.875	0.003	0.007	99.995
5.00	4.50	0.002	0.005	100.000

Statistical Results			
Mean:	2.0042	phi	(0.2493 mm)
Standard Dev:	0.3239	phi-units	(0.7989 mm)
Skewness:	-0.2638	dimensionless	
Kurtosis:	3.9841	dimensionless	
5th Moment:	-2.2257	dimensionless	
6th Moment:	47.0872	dimensionless	
RARD *	0.1616	dimensionless	
Median	1.9020	phi	(0.2676 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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