

Onshore Grab Sample

Sample: BY-46-BB
Sample Taken By: D. Phelps
Sample Collected On: 2/17/11
Splits? N/A

County: Bay
Latitude: 29° 55' 53.4" N
Longitude: 85° 23' 47.5" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	58.695 grams
Total Fines in Sample	0.095 grams
Total Percent Fines	0.16 %

Dry Sieving Summary

Total Sample Weight	42.562 grams
Total Digested Weight	41.942 grams
Total Carbonate Weight	0.620 grams
Total Silica %	98.54 %
Total Carbonate %	1.46 %
Carbonate/Silica Ratio	0.015

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: 42.562 grams

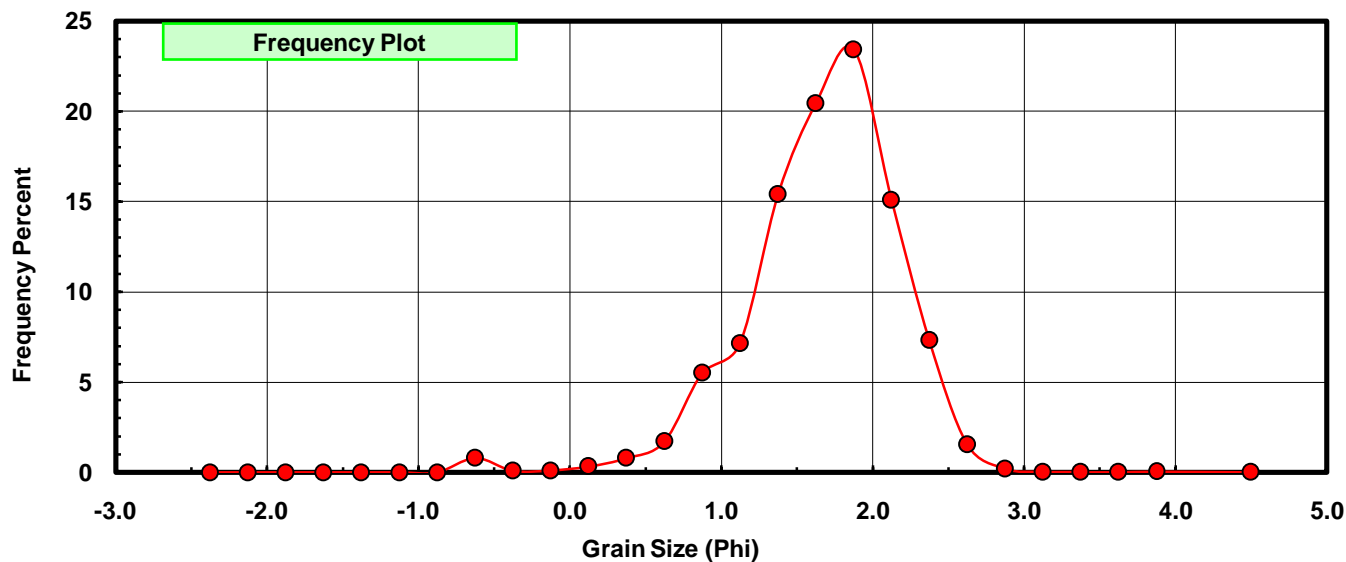
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.336	0.789	0.789
-0.25	-0.375	0.035	0.082	0.872
0.00	-0.125	0.044	0.103	0.975
0.25	0.125	0.137	0.322	1.297
0.50	0.375	0.339	0.796	2.093
0.75	0.625	0.729	1.713	3.806
1.00	0.875	2.340	5.498	9.304
1.25	1.125	3.038	7.138	16.442
1.50	1.375	6.561	15.415	31.857
1.75	1.625	8.704	20.450	52.307
2.00	1.875	9.973	23.432	75.739
2.25	2.125	6.422	15.089	90.827
2.50	2.375	3.112	7.312	98.139
2.75	2.625	0.664	1.560	99.699
3.00	2.875	0.085	0.200	99.899
3.25	3.125	0.013	0.031	99.930
3.50	3.375	0.006	0.014	99.944
3.75	3.625	0.007	0.016	99.960
4.00	3.875	0.016	0.038	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	1.6653	phi	(0.3153 mm)
Standard Dev:	0.5121	phi-units	(0.7012 mm)
Skewness:	-0.9938	dimensionless	
Kurtosis:	5.8022	dimensionless	
5th Moment:	-16.7523	dimensionless	
6th Moment:	82.3398	dimensionless	
RARD *	0.3075	dimensionless	
Median	1.5968	phi	(0.3306 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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