

Onshore Grab Sample

Sample: SA-17-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/15/09
Splits? N/A

County: Sarasota
Latitude: 27° 12' 58.4"
Longitude: 82° 30' 58.3"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	51.968 grams
Total Fines in Sample	0.659 grams
Total Percent Fines	1.25 %

Dry Sieving Summary

Total Sample Weight	51.475 grams
Total Digested Weight	8.916 grams
Total Carbonate Weight	42.559 grams
Total Silica %	17.32 %
Total Carbonate %	82.68 %
Carbonate/Silica Ratio	4.773

General Comments:

Not Enough Sample 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: 51.475 grams

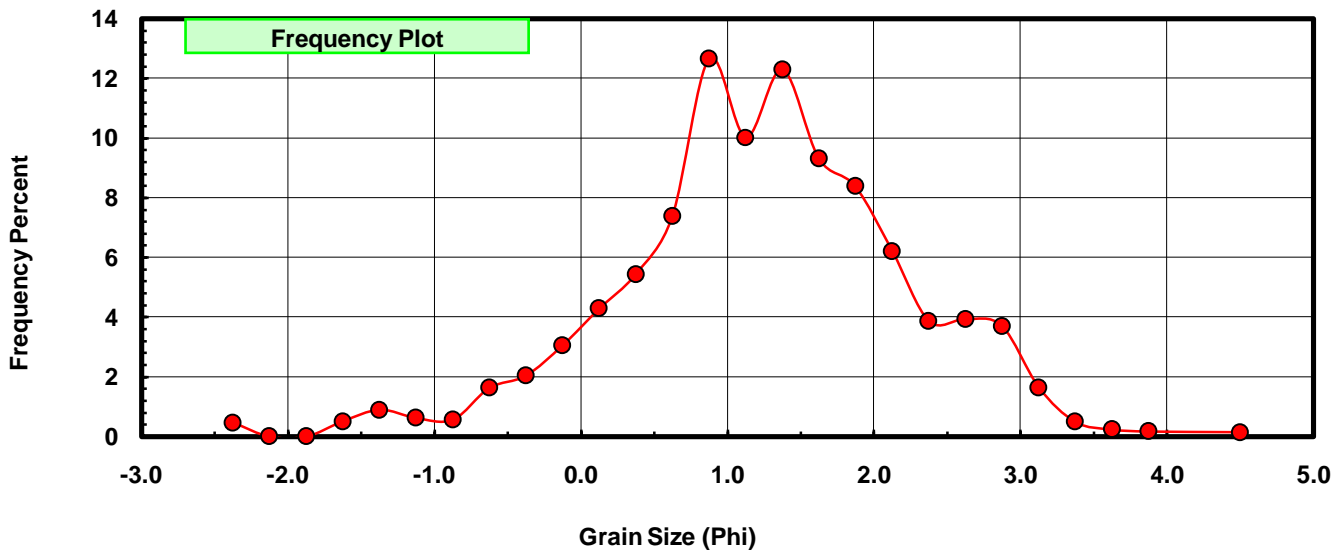
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.239	0.464	0.464
-2.00	-2.125	0.000	0.000	0.464
-1.75	-1.875	0.000	0.000	0.464
-1.50	-1.625	0.262	0.509	0.973
-1.25	-1.375	0.459	0.892	1.865
-1.00	-1.125	0.322	0.626	2.491
-0.75	-0.875	0.290	0.563	3.054
-0.50	-0.625	0.840	1.632	4.686
-0.25	-0.375	1.052	2.044	6.729
0.00	-0.125	1.574	3.058	9.787
0.25	0.125	2.209	4.291	14.079
0.50	0.375	2.797	5.434	19.512
0.75	0.625	3.796	7.374	26.887
1.00	0.875	6.517	12.661	39.547
1.25	1.125	5.163	10.030	49.577
1.50	1.375	6.332	12.301	61.879
1.75	1.625	4.798	9.321	71.200
2.00	1.875	4.318	8.389	79.588
2.25	2.125	3.195	6.207	85.795
2.50	2.375	1.992	3.870	89.665
2.75	2.625	2.023	3.930	93.595
3.00	2.875	1.906	3.703	97.298
3.25	3.125	0.846	1.644	98.941
3.50	3.375	0.256	0.497	99.439
3.75	3.625	0.124	0.241	99.679
4.00	3.875	0.091	0.177	99.856
5.00	4.50	0.074	0.144	100.000

Statistical Results			
Mean:	1.2318	phi	(0.4258 mm)
Standard Dev:	0.9975	phi-units	(0.5009 mm)
Skewness:	-0.3411	dimensionless	
Kurtosis:	3.6725	dimensionless	
5th Moment:	-4.1693	dimensionless	
6th Moment:	24.6893	dimensionless	
RARD *	0.8098	dimensionless	
Median	1.1336	phi	(0.4558 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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