

Onshore Grab Sample

Sample: PS-03
Sample Taken By: D. Phelps
Sample Collected On: 3/2/11
Splits? N/A

County: Pasco
Latitude: 28° 13' 30.6" N
Longitude: 82° 50' 29.6" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	54.022 grams
Total Fines in Sample	0.310 grams
Total Percent Fines	0.57 %

Dry Sieving Summary

Total Sample Weight	53.853 grams
Total Digested Weight	51.882 grams
Total Carbonate Weight	1.971 grams
Total Silica %	96.34 %
Total Carbonate %	3.66 %
Carbonate/Silica Ratio	0.038

General Comments:

Not Enough Carbonate Material to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

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Total Sample Mass: 53.853 grams

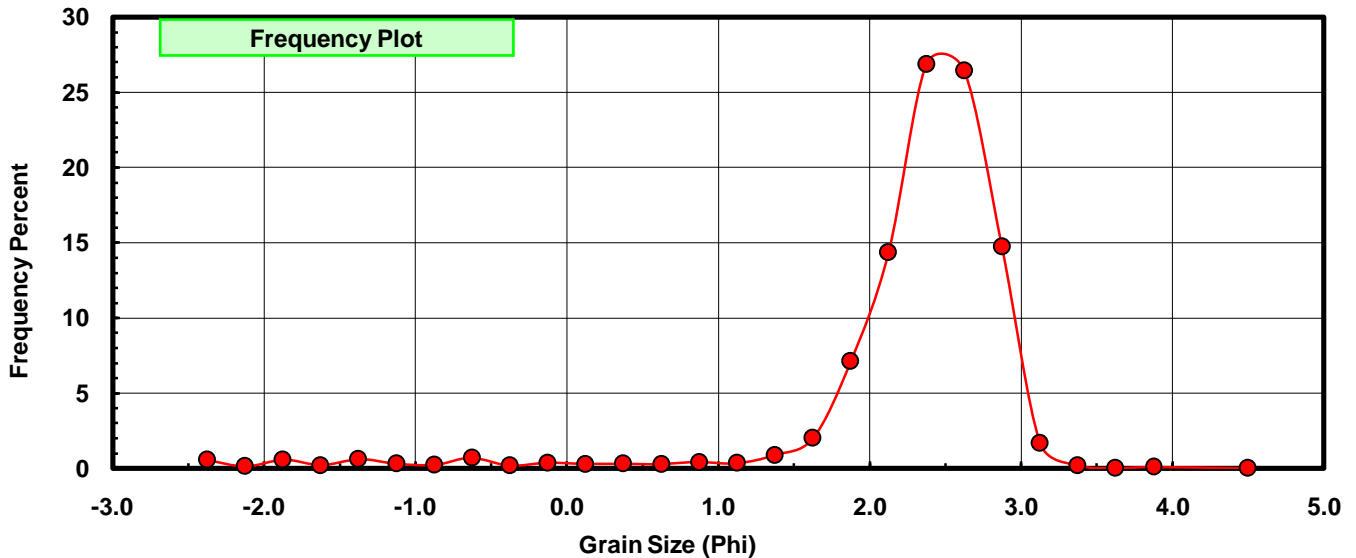
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.300	0.557	0.557
-2.00	-2.125	0.081	0.150	0.707
-1.75	-1.875	0.310	0.576	1.283
-1.50	-1.625	0.112	0.208	1.491
-1.25	-1.375	0.332	0.616	2.108
-1.00	-1.125	0.168	0.312	2.420
-0.75	-0.875	0.121	0.225	2.644
-0.50	-0.625	0.378	0.702	3.346
-0.25	-0.375	0.098	0.182	3.528
0.00	-0.125	0.202	0.375	3.903
0.25	0.125	0.159	0.295	4.198
0.50	0.375	0.167	0.310	4.509
0.75	0.625	0.155	0.288	4.796
1.00	0.875	0.229	0.425	5.222
1.25	1.125	0.187	0.347	5.569
1.50	1.375	0.480	0.891	6.460
1.75	1.625	1.087	2.018	8.479
2.00	1.875	3.831	7.114	15.592
2.25	2.125	7.732	14.358	29.950
2.50	2.375	14.467	26.864	56.814
2.75	2.625	14.245	26.452	83.266
3.00	2.875	7.943	14.749	98.015
3.25	3.125	0.896	1.664	99.679
3.50	3.375	0.106	0.197	99.876
3.75	3.625	0.010	0.019	99.894
4.00	3.875	0.054	0.100	99.994
5.00	4.50	0.003	0.006	100.000

Statistical Results			
Mean:	2.2643	phi	(0.2082 mm)
Standard Dev:	0.8420	phi-units	(0.5579 mm)
Skewness:	-3.3898	dimensionless	
Kurtosis:	16.0435	dimensionless	
5th Moment:	-75.7203	dimensionless	
6th Moment:	370.4947	dimensionless	
RARD *	0.3719	dimensionless	
Median	2.3116	phi	(0.2014 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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