

**Onshore Grab Sample**

**Sample:** OA-21-BB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 9/12/06  
**Splits?** Yes

**County:** Okaloosa  
**Latitude:** 30° 22' 59.62"  
**Longitude:** 86° 29' 47.64"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight	61.513 grams
Total Fines in Sample	0.025 grams
Total Percent Fines	0.04 %

**Dry Sieving Summary**

Total Sample Weight	61.444 grams
Total Digested Weight	61.285 grams
Total Carbonate Weight	0.159 grams
Total Silica %	99.74 %
Total Carbonate %	0.26 %
Carbonate/Silica Ratio	0.003

**General Comments:**

-2.0 - -0.75 phi: Organics and Shell Material. -0.50: Fragment of Green Glass Present;  
Not enough Carbonate Material to run a Post-Digestion Analysis

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: OA-21-BB

Total Sample Mass: 61.444 grams

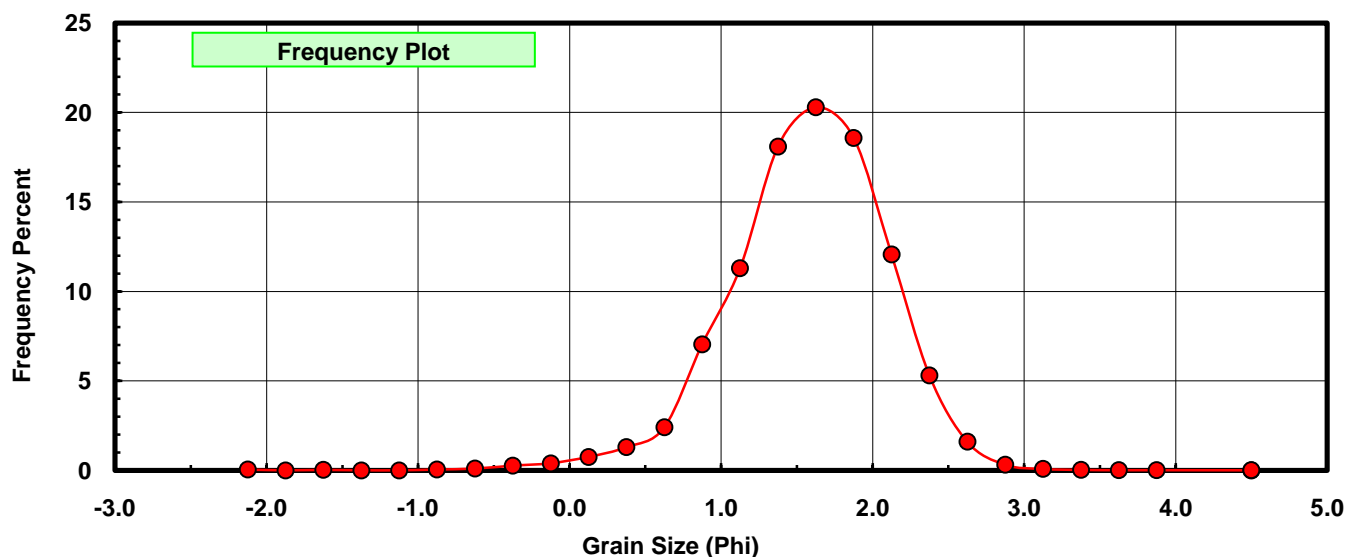
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.024	0.039	0.039
-1.75	-1.875	0.000	0.000	0.039
-1.50	-1.625	0.013	0.021	0.060
-1.25	-1.375	0.000	0.000	0.060
-1.00	-1.125	0.000	0.000	0.060
-0.75	-0.875	0.027	0.044	0.104
-0.50	-0.625	0.060	0.098	0.202
-0.25	-0.375	0.160	0.260	0.462
0.00	-0.125	0.243	0.395	0.858
0.25	0.125	0.462	0.752	1.610
0.50	0.375	0.795	1.294	2.903
0.75	0.625	1.479	2.407	5.311
1.00	0.875	4.329	7.045	12.356
1.25	1.125	6.938	11.292	23.648
1.50	1.375	11.116	18.091	41.739
1.75	1.625	12.466	20.288	62.027
2.00	1.875	11.419	18.584	80.612
2.25	2.125	7.410	12.060	92.671
2.50	2.375	3.261	5.307	97.979
2.75	2.625	0.981	1.597	99.575
3.00	2.875	0.190	0.309	99.884
3.25	3.125	0.046	0.075	99.959
3.50	3.375	0.013	0.021	99.980
3.75	3.625	0.003	0.005	99.985
4.00	3.875	0.004	0.007	99.992
5.00	4.500	0.000	0.000	99.992
5.00	4.500	0.005	0.008	100.000

Statistical Results			
Mean:	1.5697	phi	(0.3369 mm)
Standard Dev:	0.5251	phi-units	(0.6949 mm)
Skewness:	-0.6673	dimensionless	
Kurtosis:	5.1082	dimensionless	
5th Moment:	-14.6108	dimensionless	
6th Moment:	93.4521	dimensionless	
RARD *	0.3345	dimensionless	
Median	1.4768	phi	(0.3593 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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