Onshore Grab Sample

Sample: OA-21-B
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	77.903	grams
Total Fines in Sample	0.016	grams
Total Percent Fines	0.02	%

Dry Sieving Summary

Total Sample Weight	77.839	grams
Total Digested Weight	77.789	grams
Total Carbonate Weight	0.050	grams
Total Silica %	99.94	%
Total Carbonate %	0.06	%
Carbonate/Silica Ratio	0.001	

General Comments:

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-B

Total Sample Mass: 77.839 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-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	0.006	0.008	0.008
-0.25	-0.375	0.011	0.014	0.022
0.00	-0.125	0.036	0.046	0.068
0.25	0.125	0.107	0.137	0.206
0.50	0.375	0.291	0.374	0.579
0.75	0.625	1.118	1.436	2.016
1.00	0.875	4.197	5.392	7.408
1.25	1.125	7.376	9.476	16.884
1.50	1.375	14.364	18.453	35.337
1.75	1.625	19.055	24.480	59.817
2.00	1.875	18.175	23.349	83.167
2.25	2.125	10.232	13.145	96.312
2.50	2.375	2.533	3.254	99.566
2.75	2.625	0.292	0.375	99.941
3.00	2.875	0.024	0.031	99.972
3.25	3.125	0.007	0.009	99.981
3.50	3.375	0.006	0.008	99.988
3.75	3.625	0.002	0.003	99.991
4.00	3.875	0.001	0.001	99.992
5.00	4.500	0.000	0.000	99.992
5.00	4.50	0.006	0.008	100.000

Statistical Results			
Mean:	1.6219	phi	(0.3249 mm)
Standard Dev:	0.4057	phi-units	(0.7549 mm)
Skewness:	-0.3899	dimensionless	
Kurtosis:	3.4980	dimensionless	
5th Moment:	-2.9369	dimensionless	
6th Moment:	34.1044	dimensionless	
RARD *	0.2501	dimensionless	
Median	1.5247	phi	(0.3475 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

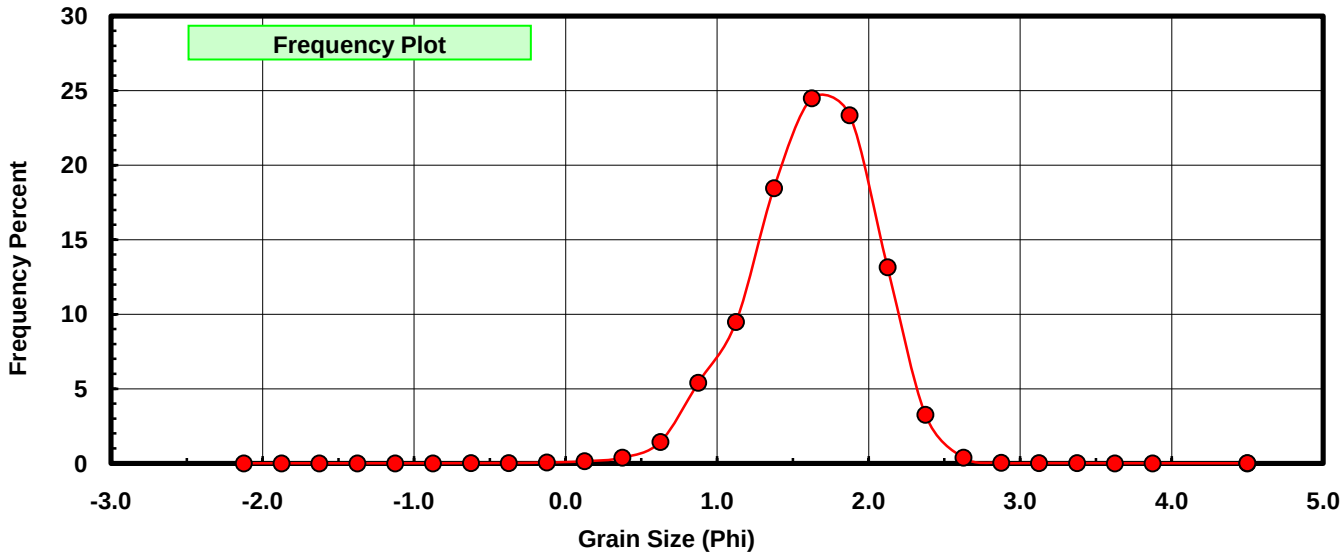
Statistical Explanation

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 Basillle 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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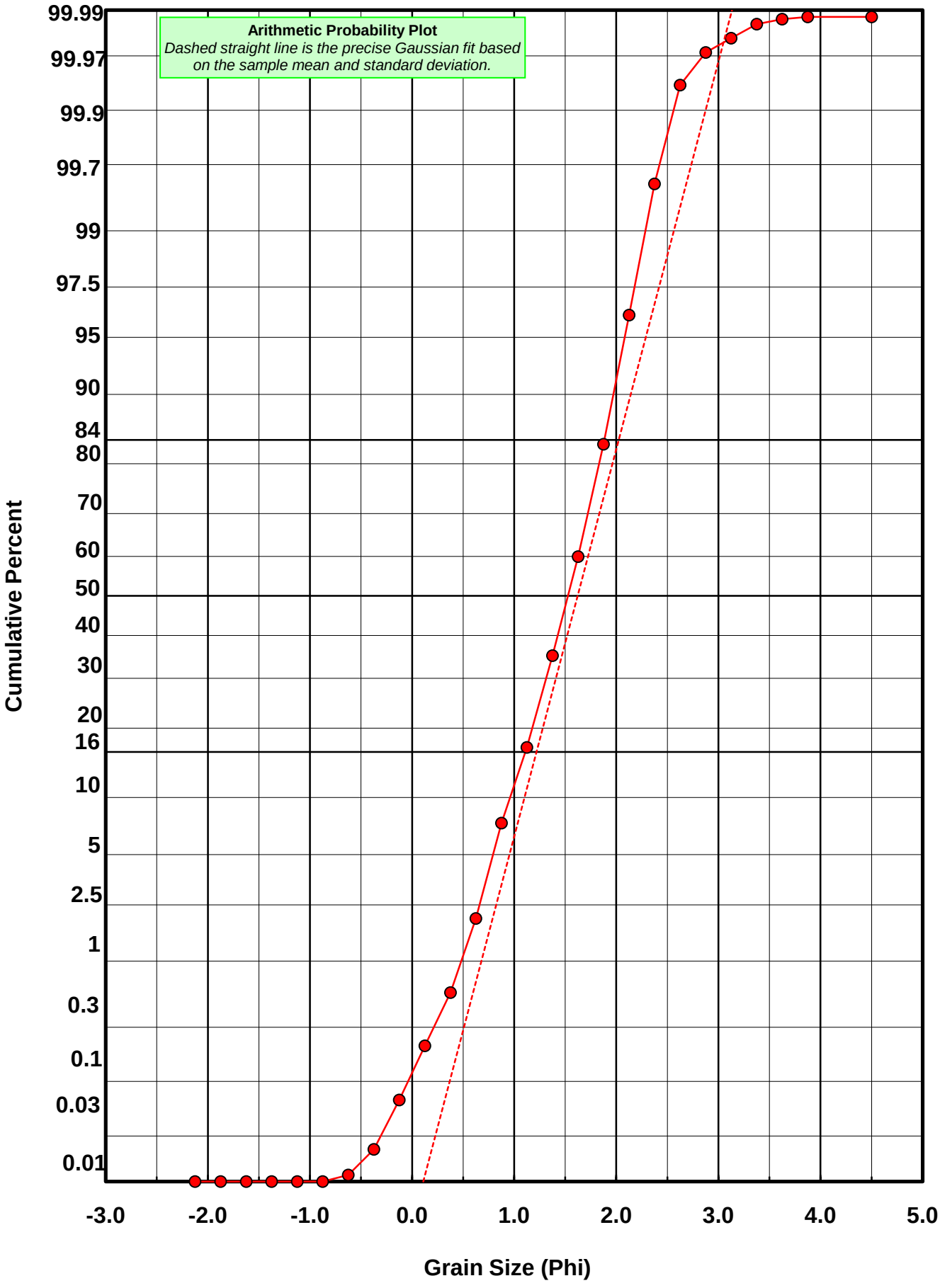
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)