Onshore Grab Sample

Sample: OA-24-B
Sample Taken By: J. Ladner
Sample Collected On: 9/12/06
Splits? Yes

County: Okaloosa
Latitude: 30° 23' 0.77"
Longitude: 86° 26' 48.47"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	59.561	grams
Total Fines in Sample	0.044	grams
Total Percent Fines	0.07	%

Dry Sieving Summary

Total Sample Weight	59.493	grams
Total Digested Weight	59.417	grams
Total Carbonate Weight	0.076	grams
Total Silica %	99.87	%
Total Carbonate %	0.13	%
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-24-B

Total Sample Mass: 59.493 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	0.000	0.000	0.000
-0.25	-0.375	0.006	0.010	0.010
0.00	-0.125	0.056	0.094	0.104
0.25	0.125	0.281	0.472	0.577
0.50	0.375	1.094	1.839	2.415
0.75	0.625	3.200	5.379	7.794
1.00	0.875	10.887	18.300	26.094
1.25	1.125	10.239	17.210	43.304
1.50	1.375	12.620	21.213	64.517
1.75	1.625	10.456	17.575	82.092
2.00	1.875	6.933	11.653	93.745
2.25	2.125	2.977	5.004	98.749
2.50	2.375	0.647	1.088	99.837
2.75	2.625	0.056	0.094	99.931
3.00	2.875	0.013	0.022	99.953
3.25	3.125	0.007	0.012	99.965
3.50	3.375	0.008	0.013	99.978
3.75	3.625	0.005	0.008	99.987
4.00	3.875	0.003	0.005	99.992
5.00	4.500	0.000	0.000	99.992
5.00	4.50	0.005	0.008	100.000

Statistical Results			
Mean:	1.3274	phi	(0.3985 mm)
Standard Dev:	0.4468	phi-units	(0.7337 mm)
Skewness:	0.0733	dimensionless	
Kurtosis:	2.9812	dimensionless	
5th Moment:	2.2705	dimensionless	
6th Moment:	26.9926	dimensionless	
RARD *	0.3366	dimensionless	
Median	1.2039	phi	(0.4341 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

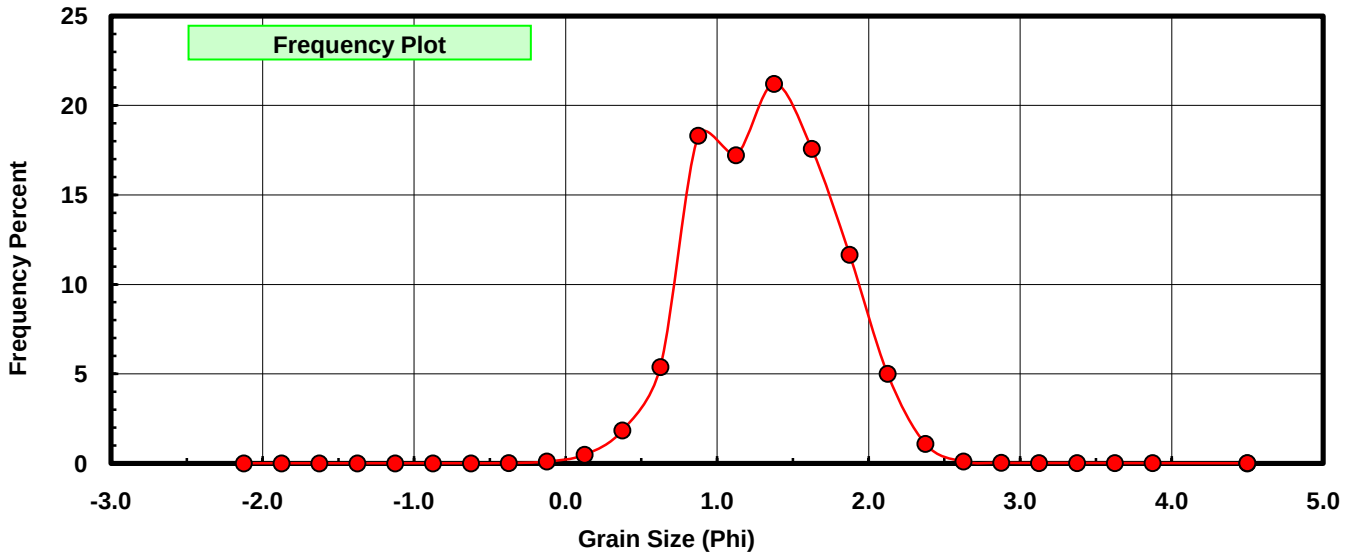
Statistical Explanation

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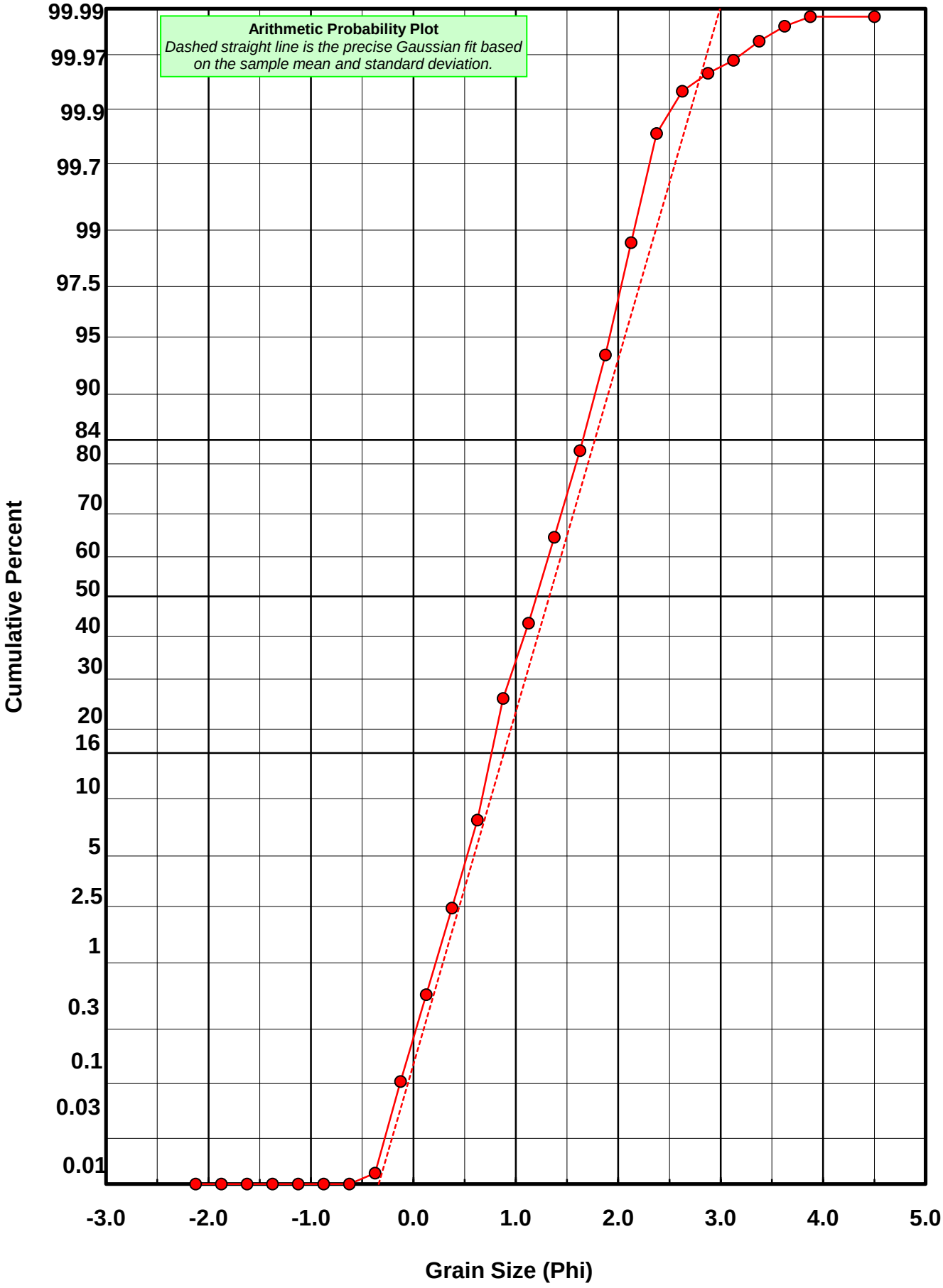
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)