Onshore Grab Sample

Sample: FK-20-BB
Sample Taken By: D. Phelps
Sample Collected On: 9/3/10
Splits? N/A

County: Franklin
Latitude: 29° 36' 36.5" N
Longitude: 84° 58' 9.0" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	60.871	grams
Total Fines in Sample	0.004	grams
Total Percent Fines	0.01	%

Dry Sieving Summary

Total Sample Weight	60.915	grams
Total Digested Weight	58.332	grams
Total Carbonate Weight	2.583	grams
Total Silica %	95.76	%
Total Carbonate %	4.24	%
Carbonate/Silica Ratio	0.044	

General Comments:

Not Enough Carbonate Material to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FK-20-BB

Total Sample Mass: 60.915 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.019	0.031	0.031
-1.25	-1.375	0.020	0.033	0.064
-1.00	-1.125	0.104	0.171	0.235
-0.75	-0.875	0.094	0.154	0.389
-0.50	-0.625	0.351	0.576	0.965
-0.25	-0.375	0.222	0.364	1.330
0.00	-0.125	0.437	0.717	2.047
0.25	0.125	0.804	1.320	3.367
0.50	0.375	2.531	4.155	7.522
0.75	0.625	4.308	7.072	14.594
1.00	0.875	7.310	12.000	26.594
1.25	1.125	8.758	14.377	40.972
1.50	1.375	11.180	18.353	59.325
1.75	1.625	10.788	17.710	77.035
2.00	1.875	7.112	11.675	88.710
2.25	2.125	4.340	7.125	95.835
2.50	2.375	1.830	3.004	98.839
2.75	2.625	0.507	0.832	99.672
3.00	2.875	0.088	0.144	99.816
3.25	3.125	0.017	0.028	99.844
3.50	3.375	0.072	0.118	99.962
3.75	3.625	0.013	0.021	99.984
4.00	3.875	0.008	0.013	99.997
5.00	4.50	0.002	0.003	100.000

Statistical Results			
Mean:	1.3322	phi	(0.3972 mm)
Standard Dev:	0.5945	phi-units	(0.6623 mm)
Skewness:	-0.5031	dimensionless	
Kurtosis:	4.2235	dimensionless	
5th Moment:	-6.9337	dimensionless	
6th Moment:	40.7528	dimensionless	
RARD *	0.4463	dimensionless	
Median	1.2480	phi	(0.421 mm)

* RARD = reciprocal absolute relative dispersion (see below)

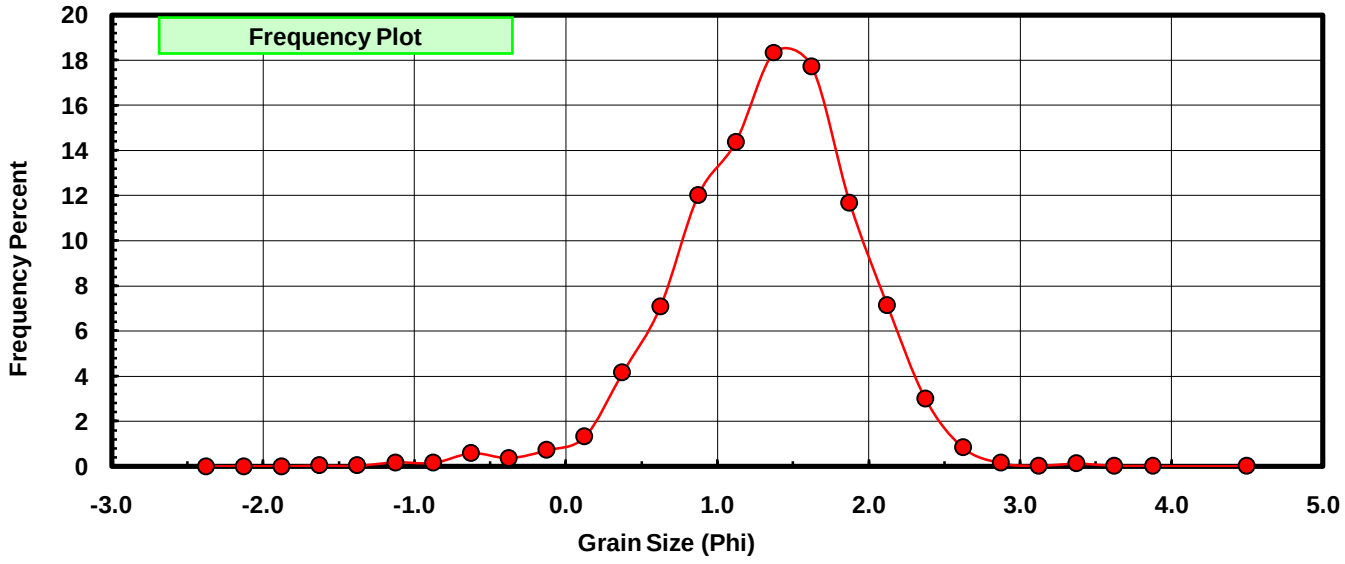
Statistical Explanation

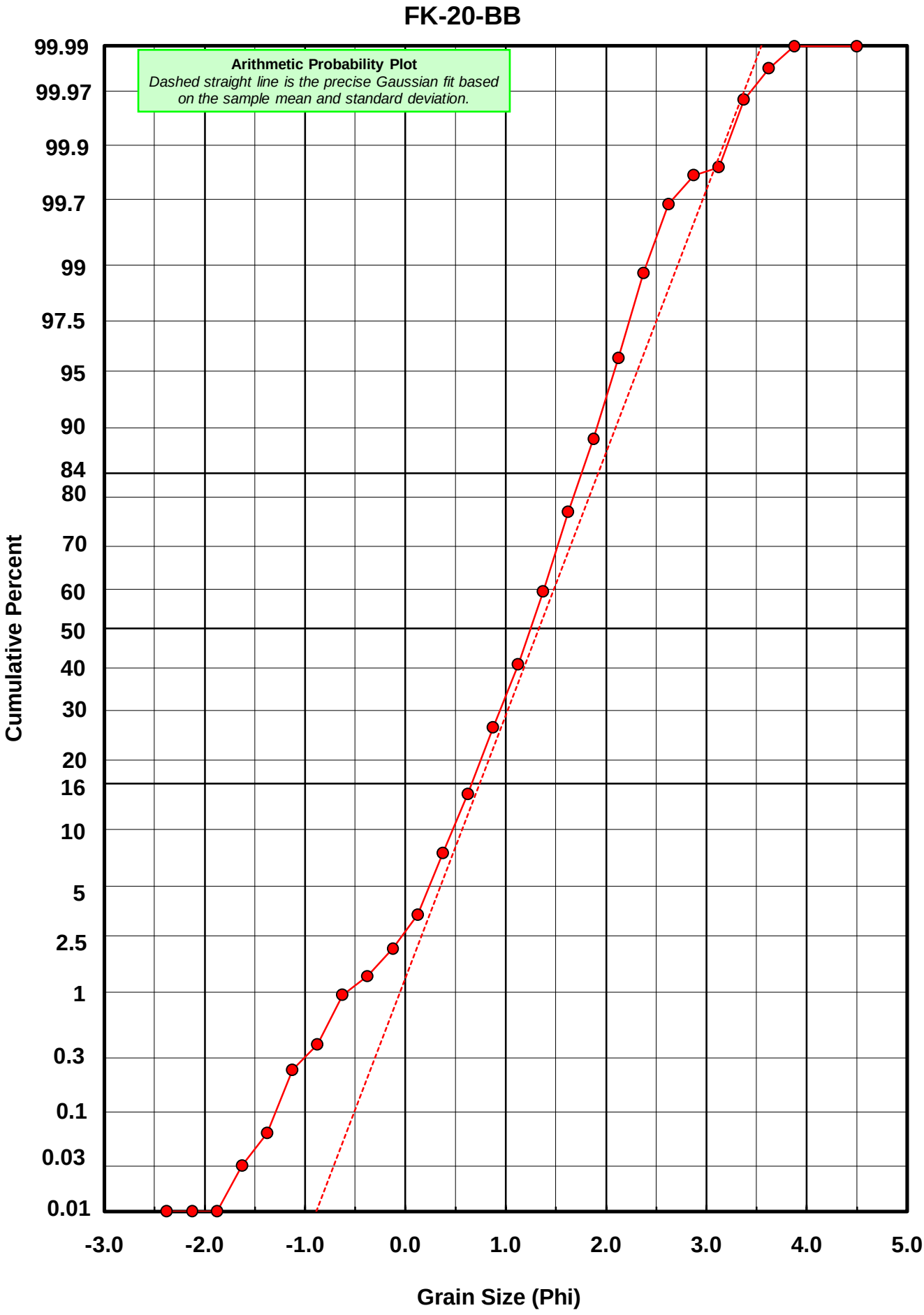
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)




FK-20-BB
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)