Onshore Grab Sample

Sample: LE-35-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/13/10
Splits? N/A

County: Lee
Latitude: 26° 25' 25.6"
Longitude: 82° 04' 5"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	56.725	grams
Total Fines in Sample	0.212	grams
Total Percent Fines	0.37	%

Dry Sieving Summary

Total Sample Weight	56.550	grams
Total Digested Weight	50.687	grams
Total Carbonate Weight	5.863	grams
Total Silica %	89.63	%
Total Carbonate %	10.37	%
Carbonate/Silica Ratio	0.116	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-35-BB

Total Sample Mass: 56.550 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.296	0.523	0.523
-2.00	-2.125	0.000	0.000	0.523
-1.75	-1.875	0.000	0.000	0.523
-1.50	-1.625	0.115	0.203	0.727
-1.25	-1.375	0.129	0.228	0.955
-1.00	-1.125	0.075	0.133	1.088
-0.75	-0.875	0.025	0.044	1.132
-0.50	-0.625	0.029	0.051	1.183
-0.25	-0.375	0.046	0.081	1.264
0.00	-0.125	0.023	0.041	1.305
0.25	0.125	0.021	0.037	1.342
0.50	0.375	0.030	0.053	1.395
0.75	0.625	0.036	0.064	1.459
1.00	0.875	0.094	0.166	1.625
1.25	1.125	0.139	0.246	1.871
1.50	1.375	0.224	0.396	2.267
1.75	1.625	0.317	0.561	2.828
2.00	1.875	0.657	1.162	3.989
2.25	2.125	1.910	3.378	7.367
2.50	2.375	4.776	8.446	15.813
2.75	2.625	9.444	16.700	32.513
3.00	2.875	15.829	27.991	60.504
3.25	3.125	14.275	25.243	85.747
3.50	3.375	6.785	11.998	97.745
3.75	3.625	1.174	2.076	99.821
4.00	3.875	0.068	0.120	99.942
5.00	4.50	0.033	0.058	100.000

Statistical Results			
Mean:	2.8116	phi	(0.1424 mm)
Standard Dev:	0.6633	phi-units	(0.6314 mm)
Skewness:	-4.4869	dimensionless	
Kurtosis:	31.7461	dimensionless	
5th Moment:	-225.7440	dimensionless	
6th Moment:	1652.7243	dimensionless	
RARD *	0.2359	dimensionless	
Median	2.7812	phi	(0.1455 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

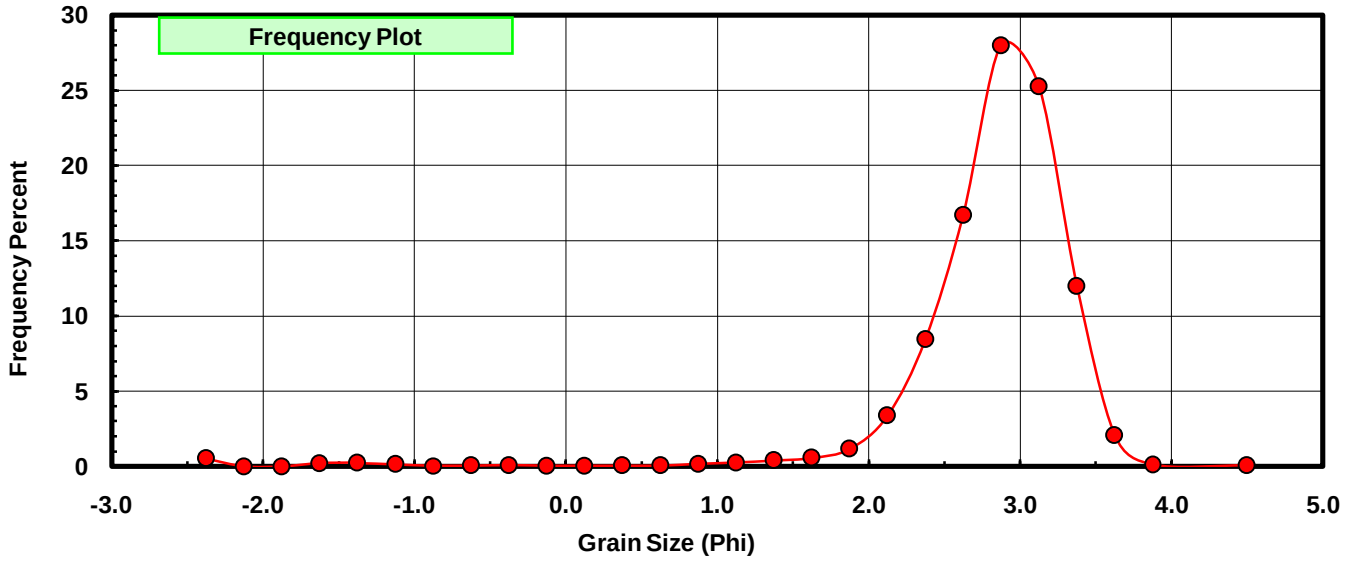
Statistical Explanation

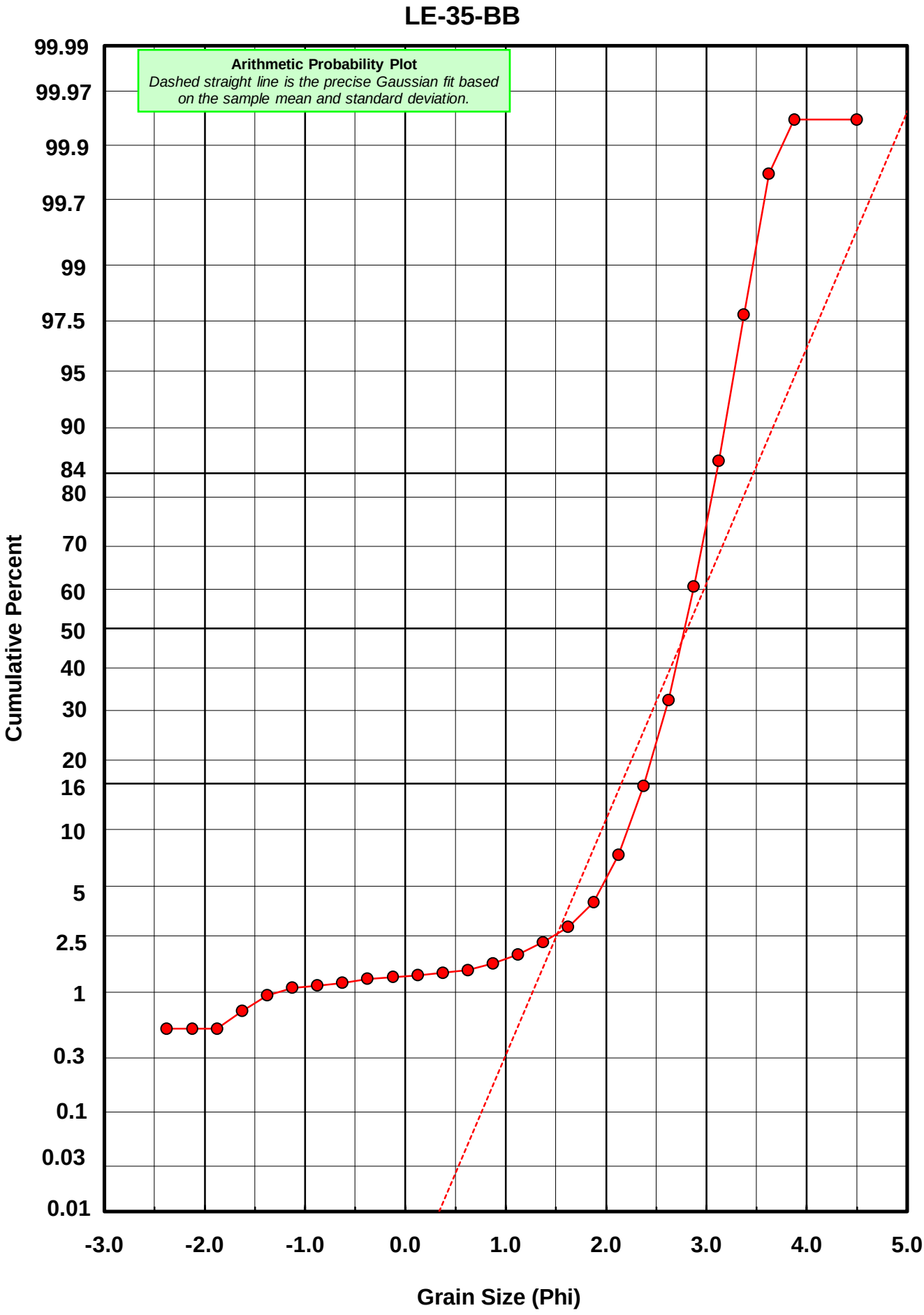
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)




LE-35-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)

Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: LE-35-BB

Total Carbonate Mass: 7.207 grams

% Carbonate: 10.4 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.296	4.107	4.107
-2.00	-2.125	0.000	0.000	4.107
-1.75	-1.875	0.000	0.000	4.107
-1.50	-1.625	0.115	1.596	5.703
-1.25	-1.375	0.129	1.790	7.493
-1.00	-1.125	0.075	1.041	8.533
-0.75	-0.875	0.025	0.347	8.880
-0.50	-0.625	0.029	0.402	9.283
-0.25	-0.375	0.046	0.638	9.921
0.00	-0.125	0.023	0.319	10.240
0.25	0.125	0.000	0.000	10.240
0.50	0.375	0.019	0.264	10.504
0.75	0.625	0.000	0.000	10.504
1.00	0.875	0.080	1.110	11.614
1.25	1.125	0.128	1.776	13.390
1.50	1.375	0.200	2.775	16.165
1.75	1.625	0.266	3.691	19.856
2.00	1.875	0.435	6.036	25.891
2.25	2.125	0.722	10.018	35.910
2.50	2.375	1.047	14.528	50.437
2.75	2.625	0.000	0.000	50.437
3.00	2.875	0.062	0.860	51.297
3.25	3.125	0.000	0.000	51.297
3.50	3.375	3.002	41.654	92.951
3.75	3.625	0.456	6.327	99.278
4.00	3.875	0.032	0.444	99.722
5.00	4.500	0.020	0.278	100.000

Statistical Results			
Mean:	2.3214	phi	(0.2001 mm)
Standard Dev:	1.6598	phi-units	(0.3165 mm)
Skewness:	-1.6263	dimensionless	
Kurtosis:	4.6998	dimensionless	
5th Moment:	-11.8929	dimensionless	
6th Moment:	31.9387	dimensionless	
RARD *	0.7150	dimensionless	
Median	2.3675	phi	(0.1938 mm)

* RARD = reciprocal absolute relative dispersion (see below)

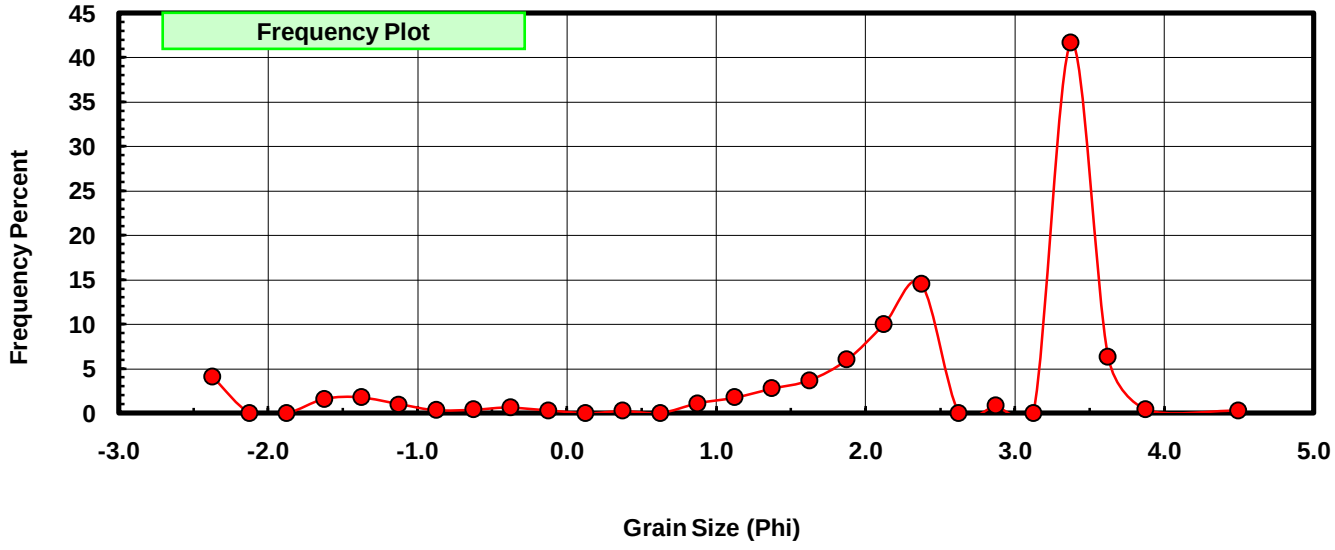
Statistical Explanation

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

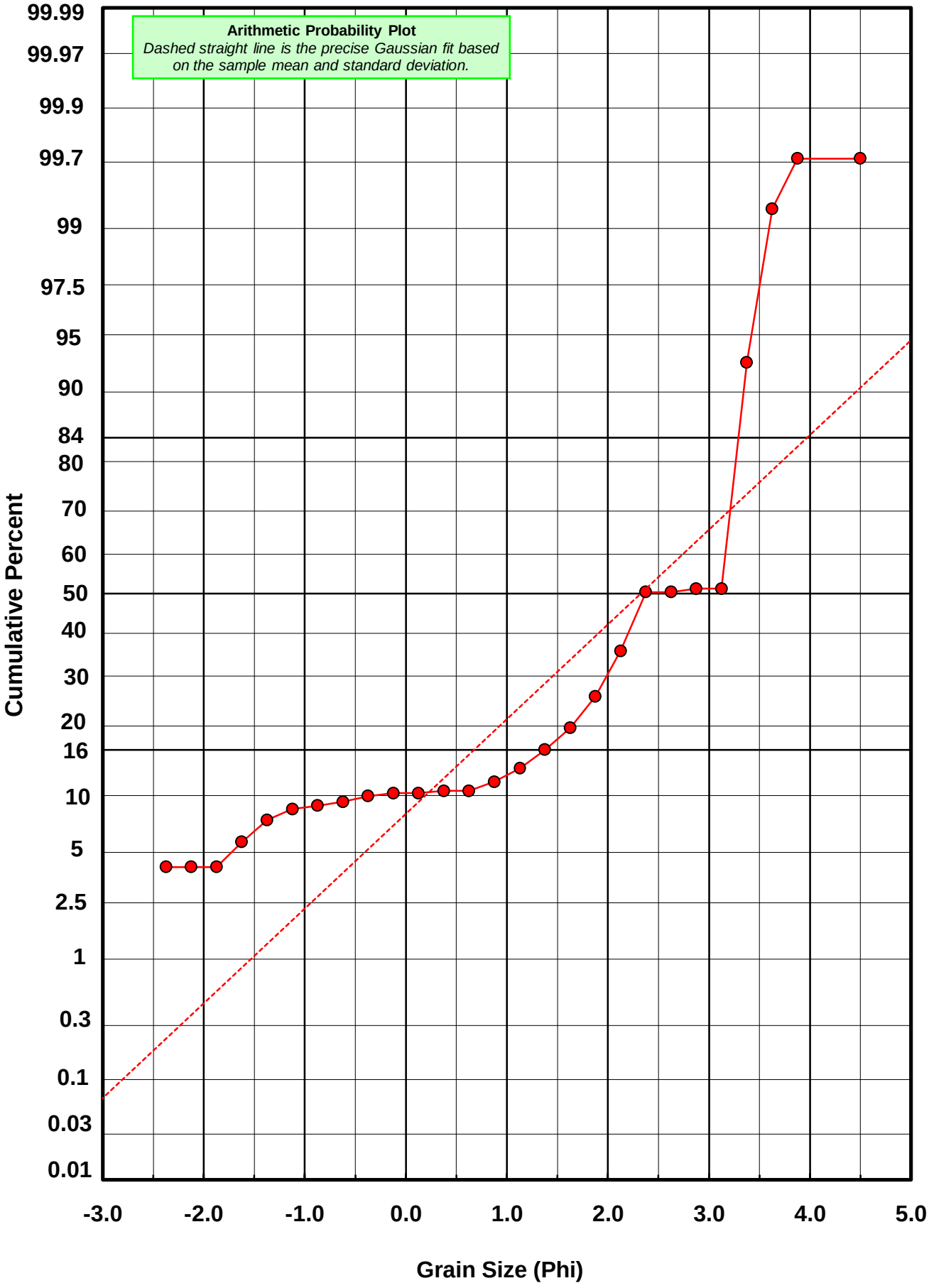
For Further Explanation, See Basillle et al. 2002

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)



LE-35-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)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-35-BB

Total Digested Mass: 50.687 grams

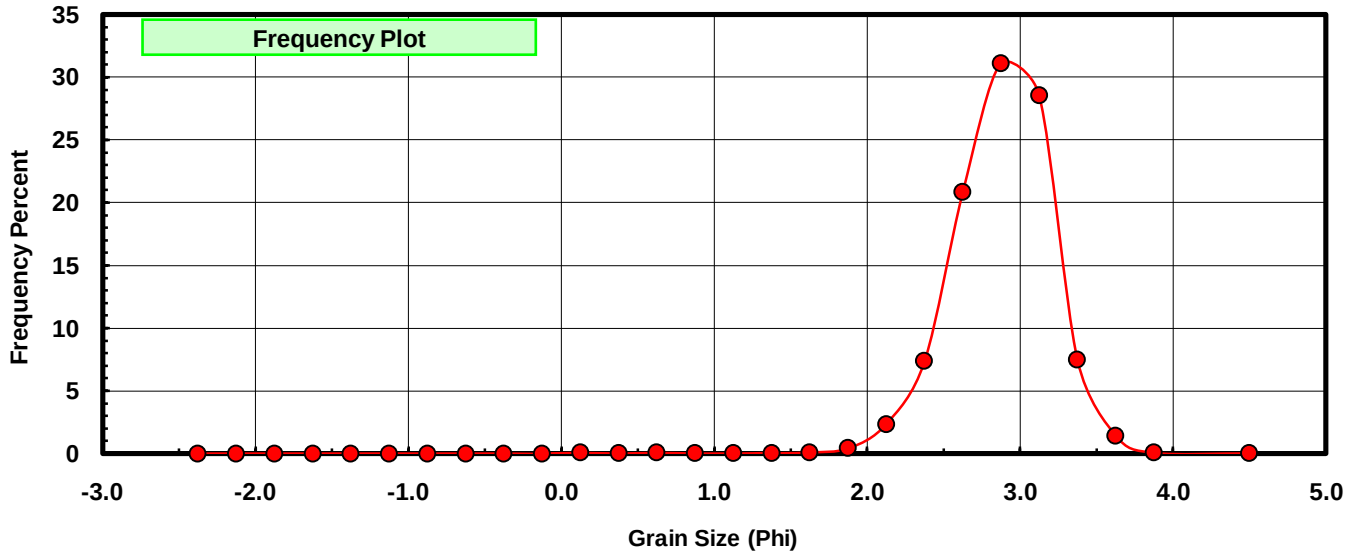
% Silica: 89.6 %

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	0.000	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	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.040	0.079	0.079
0.50	0.375	0.011	0.022	0.101
0.75	0.625	0.040	0.079	0.180
1.00	0.875	0.014	0.028	0.207
1.25	1.125	0.011	0.022	0.229
1.50	1.375	0.024	0.047	0.276
1.75	1.625	0.051	0.101	0.377
2.00	1.875	0.222	0.438	0.815
2.25	2.125	1.188	2.344	3.159
2.50	2.375	3.729	7.357	10.516
2.75	2.625	10.570	20.853	31.369
3.00	2.875	15.767	31.107	62.476
3.25	3.125	14.470	28.548	91.023
3.50	3.375	3.783	7.463	98.487
3.75	3.625	0.718	1.417	99.903
4.00	3.875	0.036	0.071	99.974
5.00	4.500	0.013	0.026	100.000

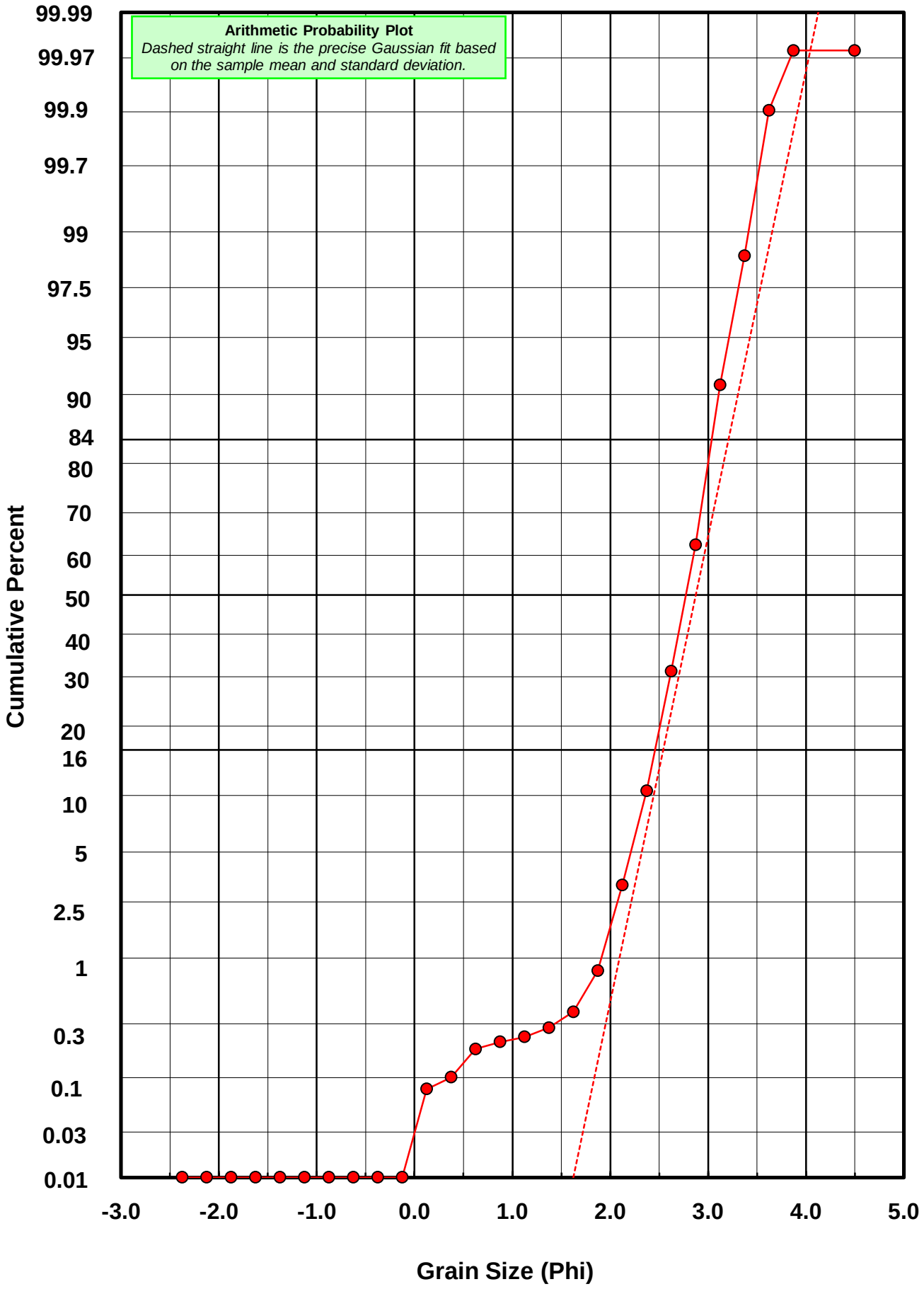
Statistical Results			
Mean:	2.8772	phi	(0.1361 mm)
Standard Dev:	0.3358	phi-units	(0.7923 mm)
Skewness:	-1.1201	dimensionless	
Kurtosis:	9.2590	dimensionless	
5th Moment:	-51.0909	dimensionless	
6th Moment:	392.1019	dimensionless	
RARD *	0.1167	dimensionless	
Median	2.7747	phi	(0.1461 mm)
* RARD = reciprocal 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)



LE-35-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)