Onshore Grab Sample

Sample: LE-46
Sample Taken By: D. Phelps
Sample Collected On: 1/14/10
Splits? N/A

County: Lee
Latitude: 26° 24' 30.1"
Longitude: 81° 54' 1.7"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	63.079	grams
Total Fines in Sample	0.583	grams
Total Percent Fines	0.92	%

Dry Sieving Summary

Total Sample Weight	62.388	grams
Total Digested Weight	43.294	grams
Total Carbonate Weight	19.094	grams
Total Silica %	69.39	%
Total Carbonate %	30.61	%
Carbonate/Silica Ratio	0.441	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-46

Total Sample Mass: 62.388 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	1.362	2.183	2.183
-2.00	-2.125	0.591	0.947	3.130
-1.75	-1.875	0.987	1.582	4.712
-1.50	-1.625	0.803	1.287	6.000
-1.25	-1.375	1.164	1.866	7.865
-1.00	-1.125	0.974	1.561	9.426
-0.75	-0.875	1.208	1.936	11.363
-0.50	-0.625	1.273	2.040	13.403
-0.25	-0.375	1.238	1.984	15.388
0.00	-0.125	1.228	1.968	17.356
0.25	0.125	1.175	1.883	19.239
0.50	0.375	1.028	1.648	20.887
0.75	0.625	0.977	1.566	22.453
1.00	0.875	1.446	2.318	24.771
1.25	1.125	0.986	1.580	26.351
1.50	1.375	1.384	2.218	28.570
1.75	1.625	1.741	2.791	31.360
2.00	1.875	2.839	4.551	35.911
2.25	2.125	4.904	7.860	43.771
2.50	2.375	8.100	12.983	56.755
2.75	2.625	12.928	20.722	77.476
3.00	2.875	10.330	16.558	94.034
3.25	3.125	3.077	4.932	98.966
3.50	3.375	0.506	0.811	99.777
3.75	3.625	0.109	0.175	99.952
4.00	3.875	0.016	0.026	99.978
5.00	4.50	0.014	0.022	100.000

Statistical Results			
Mean:	1.6974	phi	(0.3083 mm)
Standard Dev:	1.5177	phi-units	(0.3492 mm)
Skewness:	-1.2885	dimensionless	
Kurtosis:	3.4214	dimensionless	
5th Moment:	-7.3777	dimensionless	
6th Moment:	17.9463	dimensionless	
RARD *	0.8941	dimensionless	
Median	2.2449	phi	(0.211 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

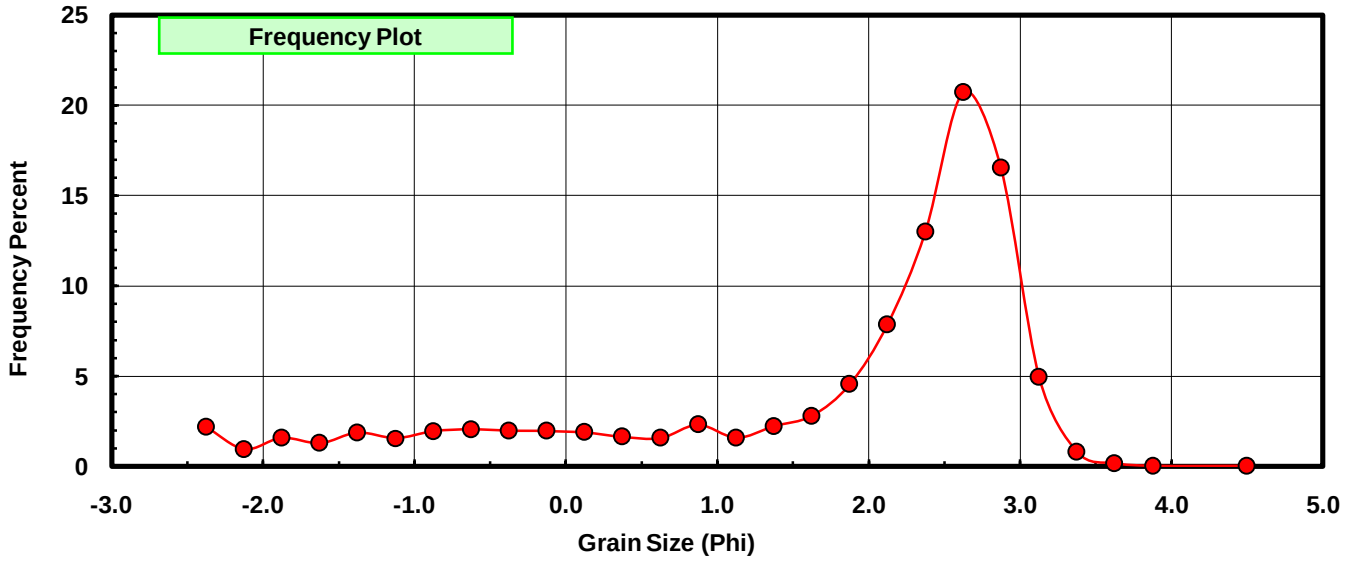
Statistical Explanation

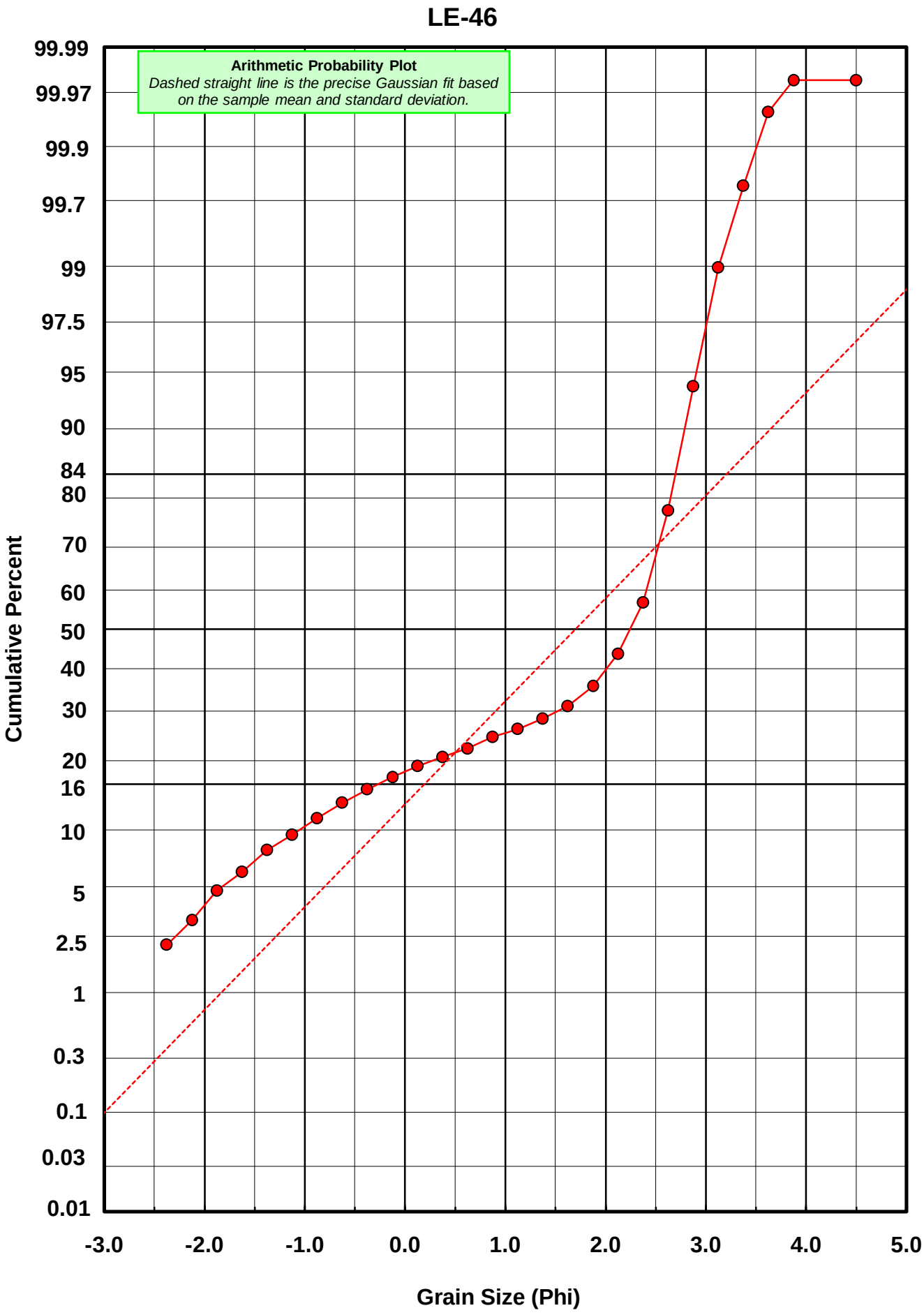
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-46
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-46

Total Carbonate Mass: 19.891 grams

% Carbonate: 30.6 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	1.362	6.847	6.847
-2.00	-2.125	0.591	2.971	9.819
-1.75	-1.875	0.987	4.962	14.781
-1.50	-1.625	0.803	4.037	18.818
-1.25	-1.375	1.164	5.852	24.669
-1.00	-1.125	0.974	4.897	29.566
-0.75	-0.875	1.208	6.073	35.639
-0.50	-0.625	1.273	6.400	42.039
-0.25	-0.375	1.238	6.224	48.263
0.00	-0.125	1.211	6.088	54.351
0.25	0.125	1.163	5.847	60.198
0.50	0.375	1.018	5.118	65.316
0.75	0.625	0.955	4.801	70.117
1.00	0.875	1.339	6.732	76.849
1.25	1.125	0.727	3.655	80.504
1.50	1.375	0.757	3.806	84.309
1.75	1.625	0.570	2.866	87.175
2.00	1.875	0.320	1.609	88.784
2.25	2.125	0.718	3.610	92.394
2.50	2.375	0.492	2.473	94.867
2.75	2.625	0.000	0.000	94.867
3.00	2.875	0.622	3.127	97.994
3.25	3.125	0.373	1.875	99.869
3.50	3.375	0.007	0.035	99.904
3.75	3.625	0.013	0.065	99.970
4.00	3.875	0.000	0.000	99.970
5.00	4.500	0.006	0.030	100.000

Statistical Results			
Mean:	-0.0696	phi	(1.0494 mm)
Standard Dev:	1.5018	phi-units	(0.3531 mm)
Skewness:	0.3009	dimensionless	
Kurtosis:	2.1923	dimensionless	
5th Moment:	1.7140	dimensionless	
6th Moment:	6.5947	dimensionless	
RARD *	21.5824	dimensionless	
Median	-0.3037	phi	(1.2343 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	
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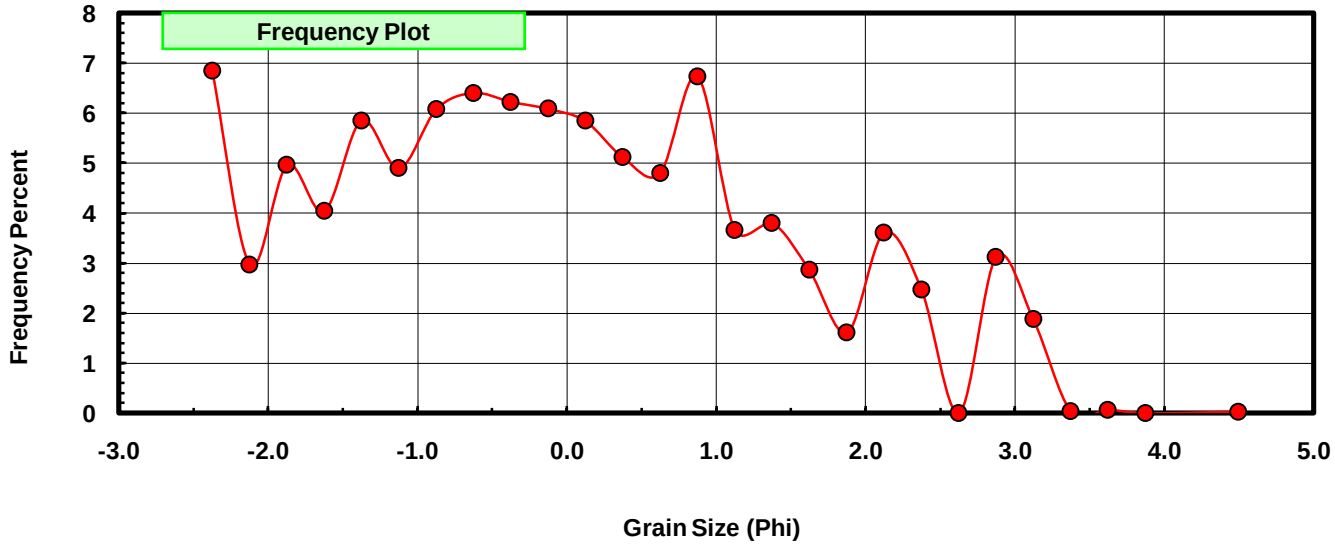

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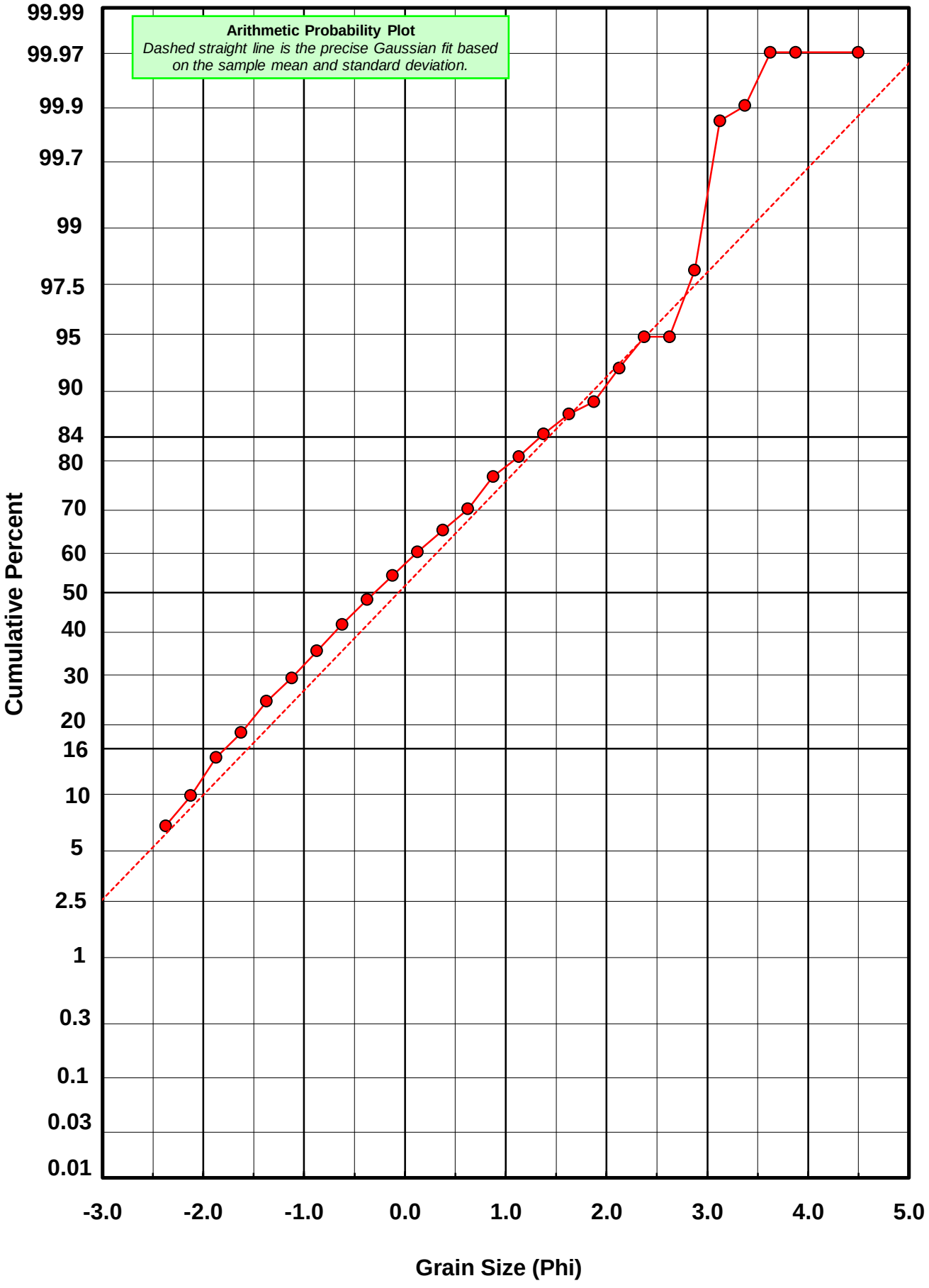
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
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20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-46

Total Digested Mass: 43.294 grams

% Silica: 69.4 %

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	0.017	0.039	0.039
0.25	0.125	0.012	0.028	0.067
0.50	0.375	0.010	0.023	0.090
0.75	0.625	0.022	0.051	0.141
1.00	0.875	0.107	0.247	0.388
1.25	1.125	0.259	0.598	0.986
1.50	1.375	0.627	1.448	2.435
1.75	1.625	1.171	2.705	5.139
2.00	1.875	2.519	5.818	10.958
2.25	2.125	4.186	9.669	20.626
2.50	2.375	7.608	17.573	38.199
2.75	2.625	13.725	31.702	69.901
3.00	2.875	9.708	22.423	92.325
3.25	3.125	2.704	6.246	98.570
3.50	3.375	0.499	1.153	99.723
3.75	3.625	0.096	0.222	99.945
4.00	3.875	0.016	0.037	99.982
5.00	4.500	0.008	0.018	100.000

Statistical Results			
Mean:	2.5263	phi	(0.1736 mm)
Standard Dev:	0.4248	phi-units	(0.7449 mm)
Skewness:	-0.9858	dimensionless	
Kurtosis:	5.1108	dimensionless	
5th Moment:	-14.1263	dimensionless	
6th Moment:	71.3169	dimensionless	
RARD *	0.1682	dimensionless	
Median	2.4681	phi	(0.1807 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

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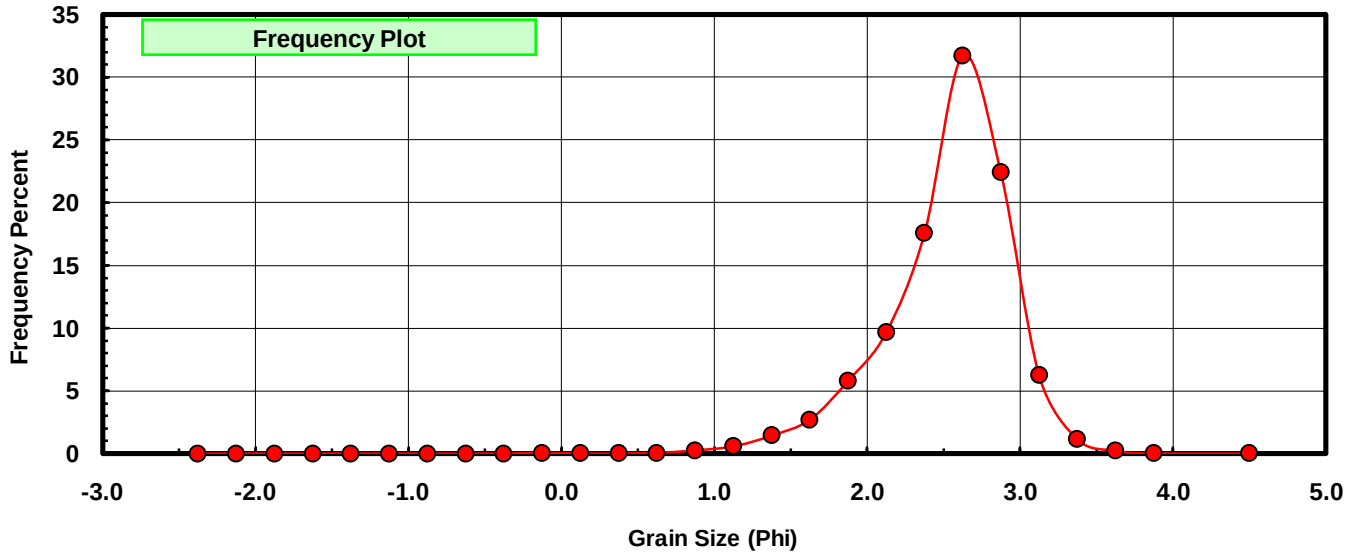

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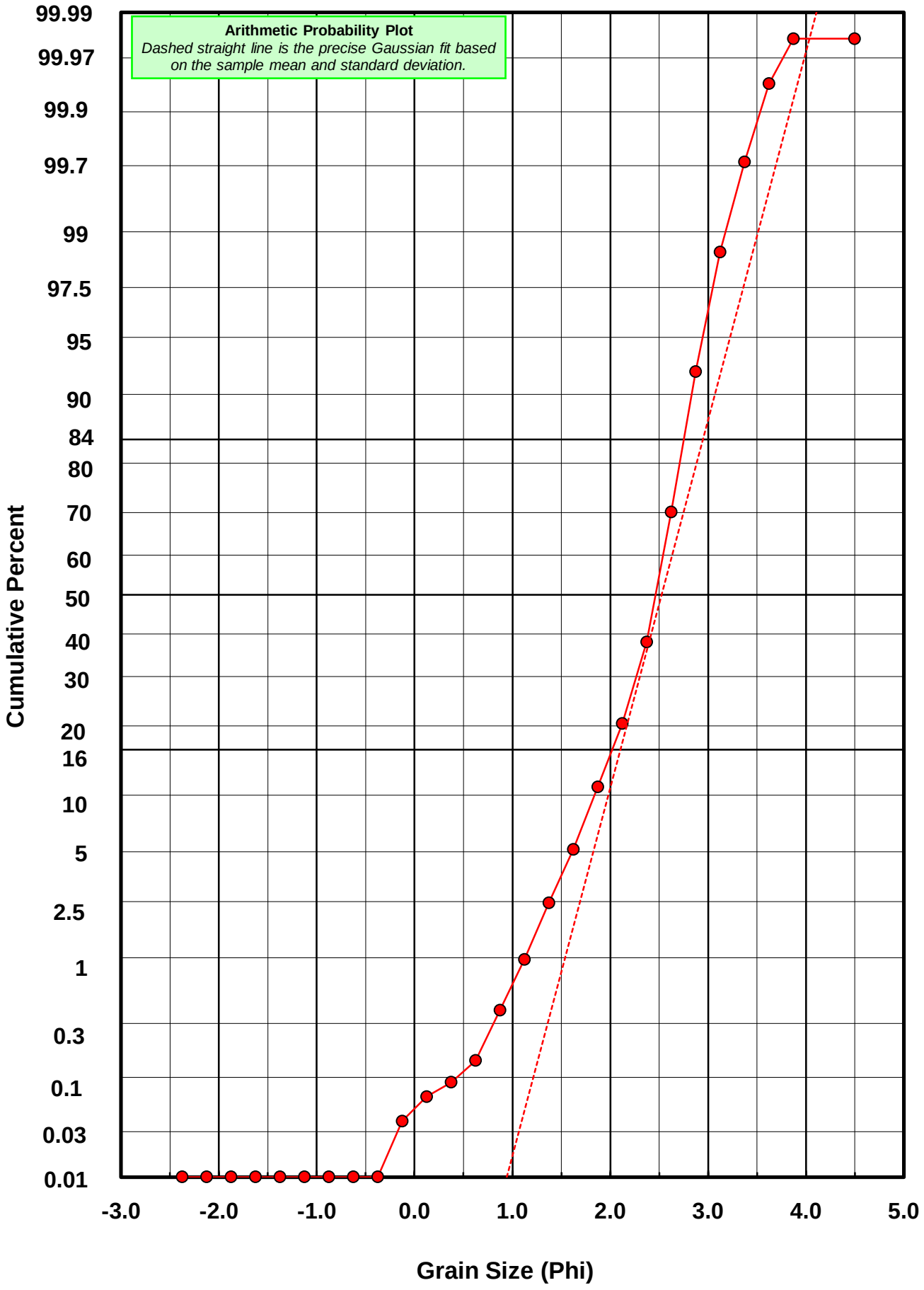
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5.0
Grain Size (Phi)