

Onshore Grab Sample

Sample: LE-49
Sample Taken By: D. Phelps
Sample Collected On: 1/14/10
Splits? N/A

County: Lee
Latitude: 26° 23' 21.7"
Longitude: 81° 52' 43.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	52.876 grams
Total Fines in Sample	0.215 grams
Total Percent Fines	0.40 %

Dry Sieving Summary

Total Sample Weight	52.897 grams
Total Digested Weight	11.763 grams
Total Carbonate Weight	41.134 grams
Total Silica %	22.24 %
Total Carbonate %	77.76 %
Carbonate/Silica Ratio	3.497

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-49

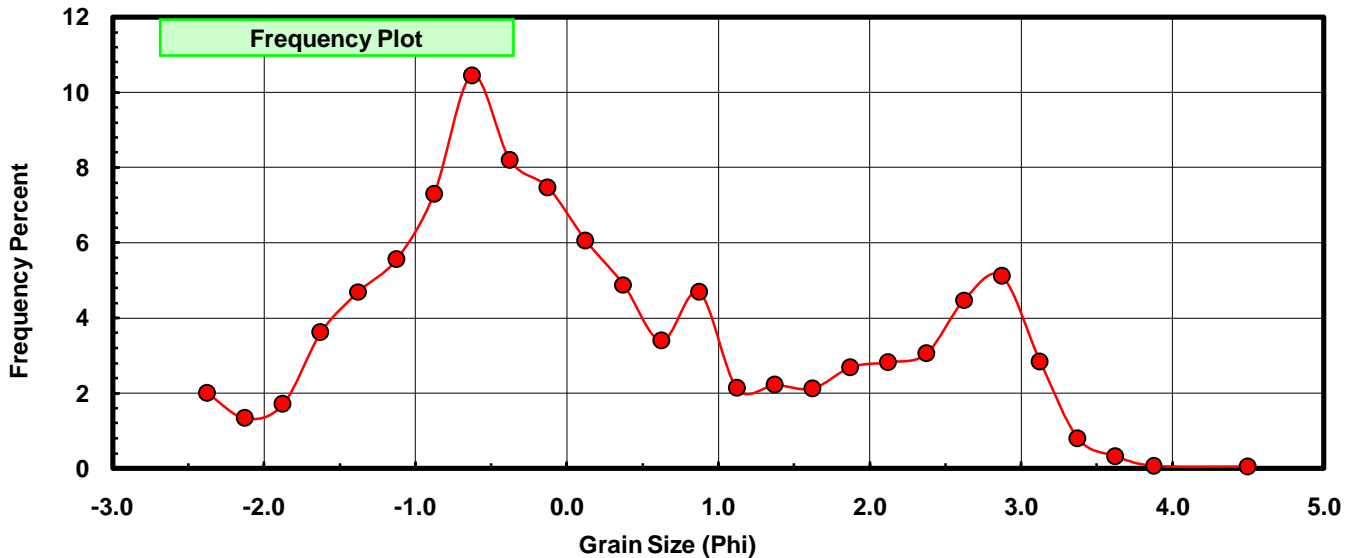
Total Sample Mass: 52.897 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	1.061	2.006	2.006
-2.00	-2.125	0.703	1.329	3.335
-1.75	-1.875	0.903	1.707	5.042
-1.50	-1.625	1.910	3.611	8.653
-1.25	-1.375	2.485	4.698	13.350
-1.00	-1.125	2.938	5.554	18.905
-0.75	-0.875	3.861	7.299	26.204
-0.50	-0.625	5.527	10.449	36.652
-0.25	-0.375	4.331	8.188	44.840
0.00	-0.125	3.949	7.465	52.305
0.25	0.125	3.204	6.057	58.362
0.50	0.375	2.584	4.885	63.247
0.75	0.625	1.792	3.388	66.635
1.00	0.875	2.478	4.685	71.320
1.25	1.125	1.127	2.131	73.450
1.50	1.375	1.172	2.216	75.666
1.75	1.625	1.122	2.121	77.787
2.00	1.875	1.421	2.686	80.473
2.25	2.125	1.491	2.819	83.292
2.50	2.375	1.613	3.049	86.341
2.75	2.625	2.368	4.477	90.818
3.00	2.875	2.704	5.112	95.930
3.25	3.125	1.501	2.838	98.767
3.50	3.375	0.423	0.800	99.567
3.75	3.625	0.171	0.323	99.890
4.00	3.875	0.035	0.066	99.957
5.00	4.50	0.023	0.043	100.000

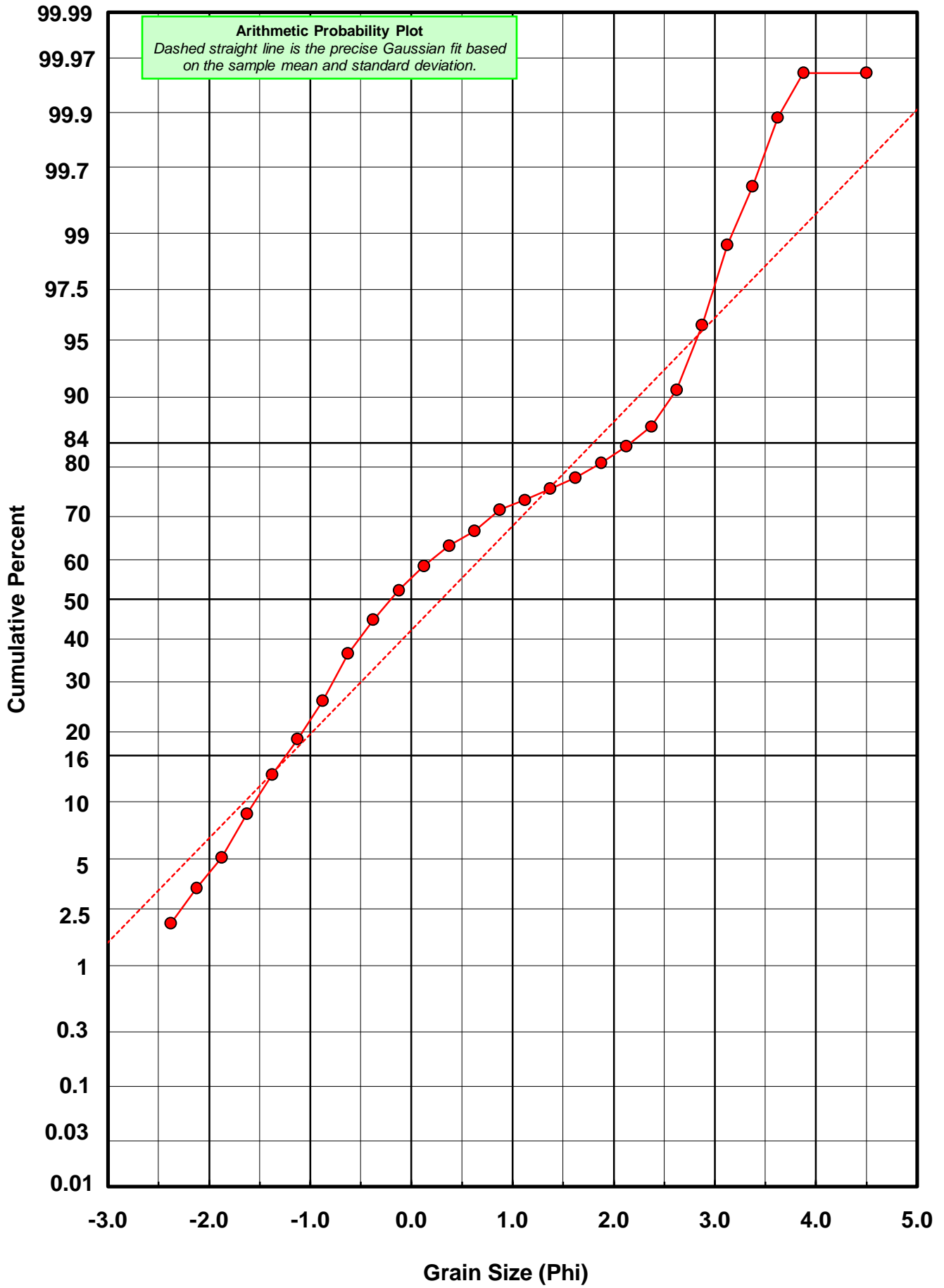
Statistical Results			
Mean:	0.2932	phi	(0.8161 mm)
Standard Dev:	1.5134	phi-units	(0.3503 mm)
Skewness:	0.4594	dimensionless	
Kurtosis:	2.1590	dimensionless	
5th Moment:	1.8071	dimensionless	
6th Moment:	6.0554	dimensionless	
RARD *	5.1620	dimensionless	
Median	-0.2022	phi	(1.1505 mm)
* RARD = reciprocal 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 Basille 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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Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: LE-49

Total Carbonate Mass: 41.134 grams

% Carbonate: 77.8 %

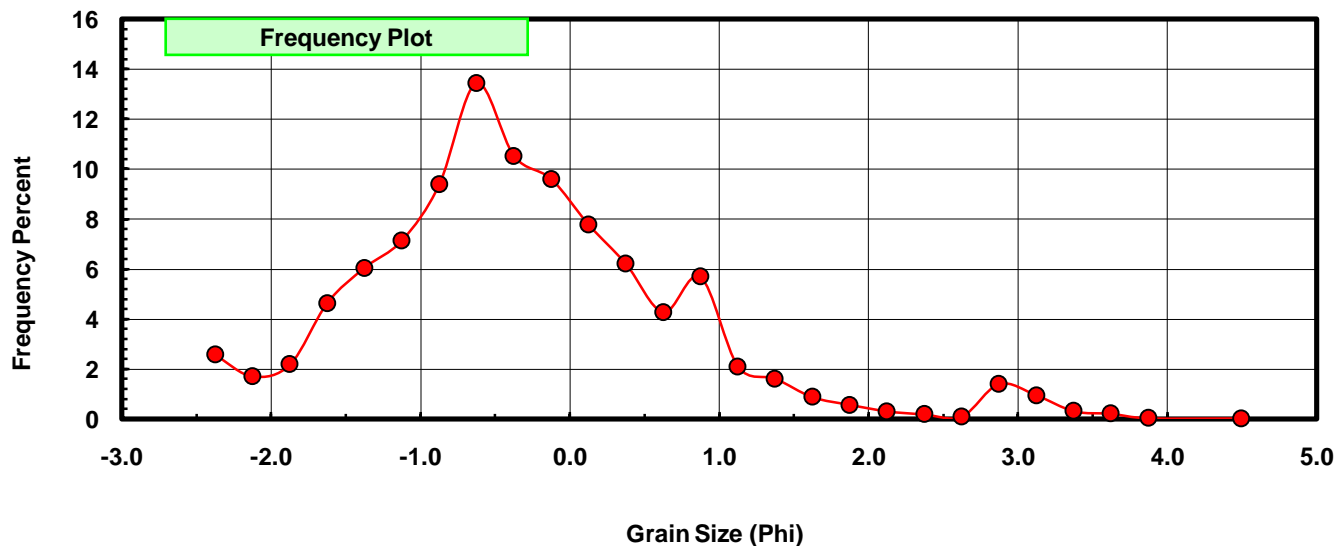
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	1.061	2.579	2.579
-2.00	-2.125	0.703	1.709	4.288
-1.75	-1.875	0.903	2.195	6.484
-1.50	-1.625	1.910	4.643	11.127
-1.25	-1.375	2.485	6.041	17.168
-1.00	-1.125	2.938	7.143	24.311
-0.75	-0.875	3.861	9.386	33.697
-0.50	-0.625	5.527	13.437	47.134
-0.25	-0.375	4.331	10.529	57.663
0.00	-0.125	3.949	9.600	67.263
0.25	0.125	3.204	7.789	75.052
0.50	0.375	2.553	6.207	81.259
0.75	0.625	1.760	4.279	85.538
1.00	0.875	2.343	5.696	91.234
1.25	1.125	0.863	2.098	93.332
1.50	1.375	0.665	1.617	94.948
1.75	1.625	0.364	0.885	95.833
2.00	1.875	0.233	0.566	96.400
2.25	2.125	0.127	0.309	96.708
2.50	2.375	0.082	0.199	96.908
2.75	2.625	0.044	0.107	97.015
3.00	2.875	0.581	1.412	98.427
3.25	3.125	0.390	0.948	99.375
3.50	3.375	0.132	0.321	99.696
3.75	3.625	0.094	0.229	99.925
4.00	3.875	0.017	0.041	99.966
5.00	4.500	0.014	0.034	100.000

Statistical Results			
Mean:	-0.3082	phi	(1.2382 mm)
Standard Dev:	1.0927	phi-units	(0.4689 mm)
Skewness:	0.8483	dimensionless	
Kurtosis:	4.4464	dimensionless	
5th Moment:	9.7778	dimensionless	
6th Moment:	36.3056	dimensionless	
RARD *	3.5455	dimensionless	
Median	-0.5569	phi	(1.4711 mm)

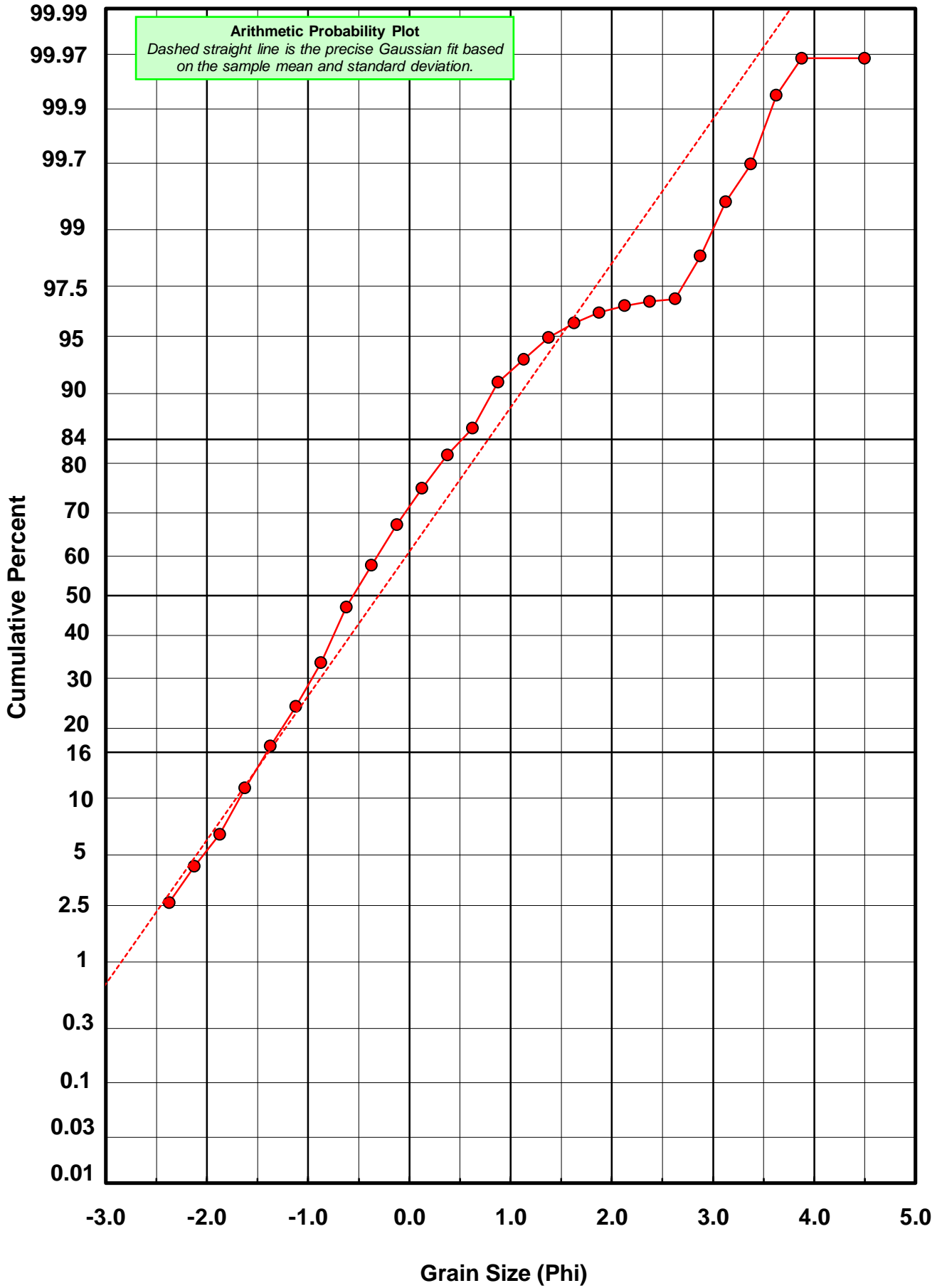
* RARD = reciprocal absolute relative dispersion (see below)

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 Basille et al. 2002	
Millimeter data calculated by $mm = 2^{-(\phi)}$	

Reciprocal Absolute Relative Dispersion (RARD) Scale	
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Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-49

Total Digested Mass: 11.763 grams

% Silica: 22.2 %

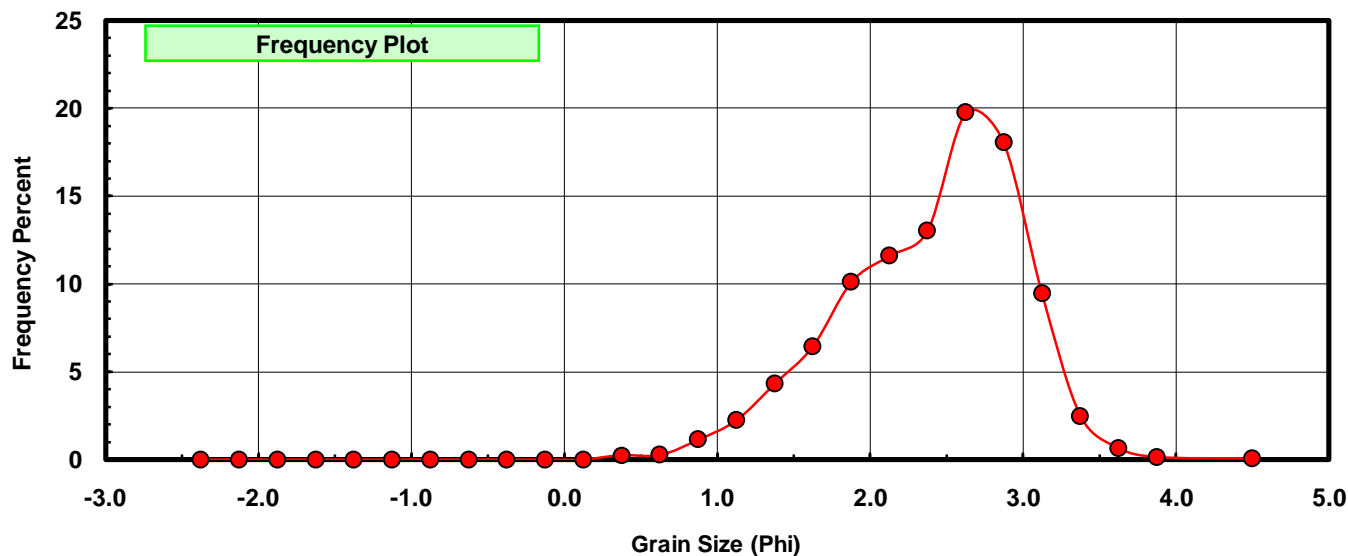
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-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	0.000	0.000	0.000
0.50	0.375	0.031	0.264	0.264
0.75	0.625	0.032	0.272	0.536
1.00	0.875	0.135	1.148	1.683
1.25	1.125	0.264	2.244	3.928
1.50	1.375	0.507	4.310	8.238
1.75	1.625	0.758	6.444	14.682
2.00	1.875	1.188	10.099	24.781
2.25	2.125	1.364	11.596	36.377
2.50	2.375	1.531	13.015	49.392
2.75	2.625	2.324	19.757	69.149
3.00	2.875	2.123	18.048	87.197
3.25	3.125	1.111	9.445	96.642
3.50	3.375	0.291	2.474	99.116
3.75	3.625	0.077	0.655	99.770
4.00	3.875	0.018	0.153	99.923
5.00	4.500	0.009	0.077	100.000

Statistical Results			
Mean:	2.3961	phi	(0.19 mm)
Standard Dev:	0.6128	phi-units	(0.6539 mm)
Skewness:	-0.5185	dimensionless	
Kurtosis:	2.8294	dimensionless	
5th Moment:	-3.3713	dimensionless	
6th Moment:	14.6071	dimensionless	
RARD *	0.2558	dimensionless	
Median	2.3827	phi	(0.1918 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 Basille et al. 2002	
Millimeter data calculated by $mm = 2^{-(\phi)}$	

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