

Onshore Grab Sample

Sample: LE-33-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/13/10
Splits? N/A

County: Lee
Latitude: 26° 25' 30.7"
Longitude: 82° 05' 54"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 70.838 grams
Total Fines in Sample 0.142 grams
Total Percent Fines 0.20 %

Dry Sieving Summary

Total Sample Weight 70.449 grams
Total Digested Weight 28.886 grams
Total Carbonate Weight 41.563 grams
Total Silica % 41.00 %
Total Carbonate % 59.00 %
Carbonate/Silica Ratio 1.439

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-33-BB

Total Sample Mass: 70.449 grams

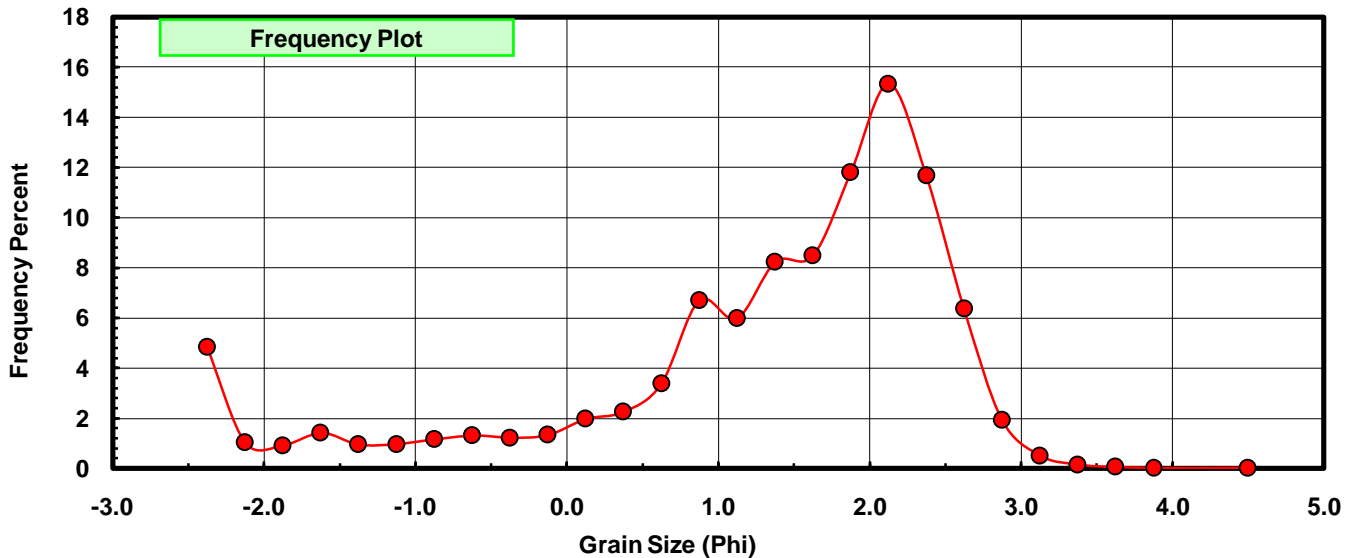
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	3.413	4.845	4.845
-2.00	-2.125	0.721	1.023	5.868
-1.75	-1.875	0.644	0.914	6.782
-1.50	-1.625	0.996	1.414	8.196
-1.25	-1.375	0.671	0.952	9.148
-1.00	-1.125	0.681	0.967	10.115
-0.75	-0.875	0.817	1.160	11.275
-0.50	-0.625	0.922	1.309	12.584
-0.25	-0.375	0.863	1.225	13.809
0.00	-0.125	0.937	1.330	15.139
0.25	0.125	1.391	1.974	17.113
0.50	0.375	1.590	2.257	19.370
0.75	0.625	2.382	3.381	22.751
1.00	0.875	4.721	6.701	29.453
1.25	1.125	4.210	5.976	35.428
1.50	1.375	5.800	8.233	43.661
1.75	1.625	5.973	8.478	52.140
2.00	1.875	8.310	11.796	63.936
2.25	2.125	10.803	15.334	79.270
2.50	2.375	8.227	11.678	90.948
2.75	2.625	4.482	6.362	97.310
3.00	2.875	1.367	1.940	99.251
3.25	3.125	0.354	0.502	99.753
3.50	3.375	0.107	0.152	99.905
3.75	3.625	0.042	0.060	99.965
4.00	3.875	0.011	0.016	99.980
5.00	4.50	0.014	0.020	100.000

Statistical Results			
Mean:	1.2551	phi	(0.419 mm)
Standard Dev:	1.3618	phi-units	(0.3891 mm)
Skewness:	-1.3533	dimensionless	
Kurtosis:	4.0532	dimensionless	
5th Moment:	-9.2007	dimensionless	
6th Moment:	24.1014	dimensionless	
RARD *	1.0850	dimensionless	
Median	1.5619	phi	(0.3387 mm)

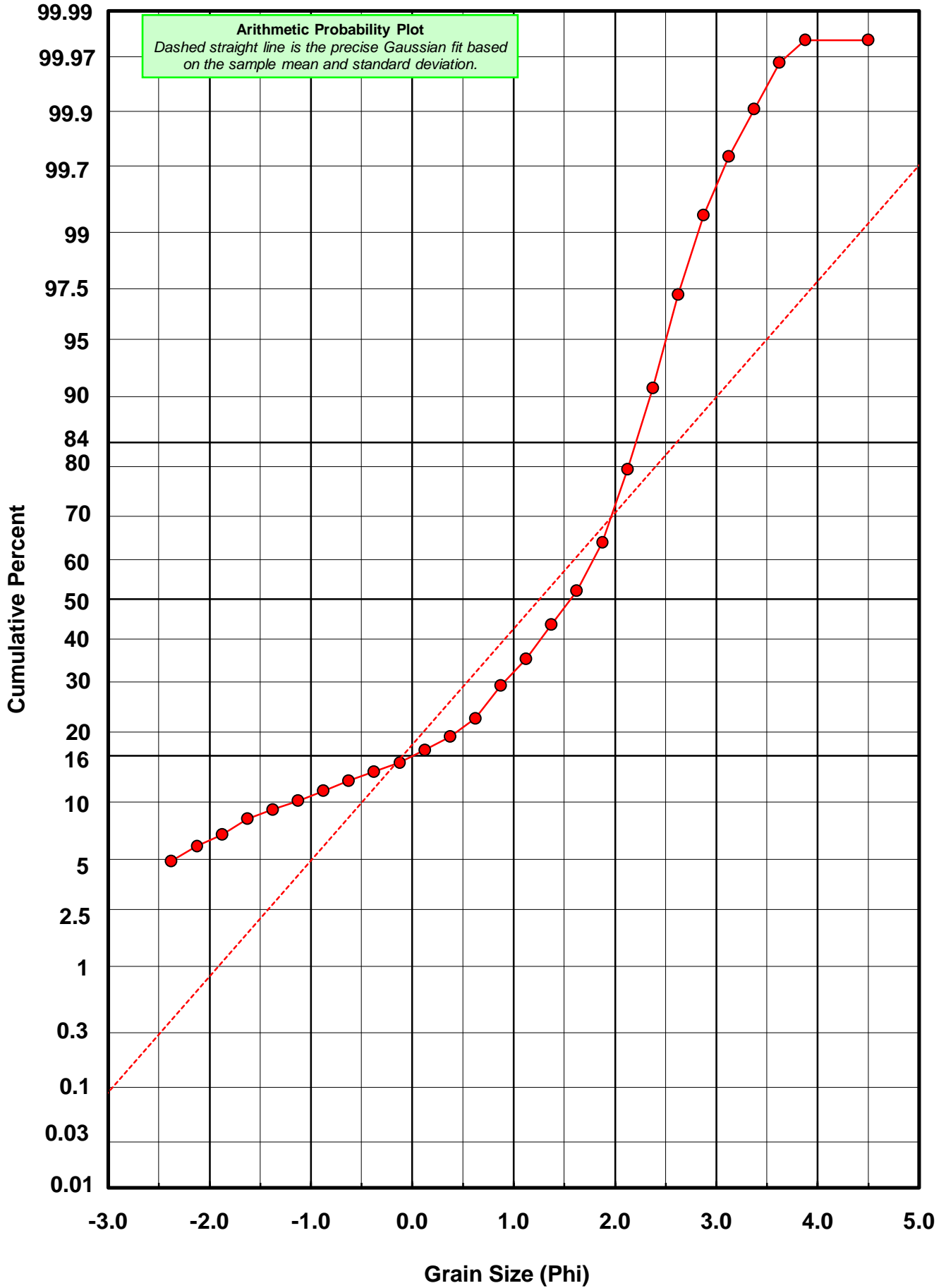
* RARD = reciprocal absolute relative dispersion (see below)

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)



LE-33-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: LE-33-BB

Total Carbonate Mass: 42.950 grams

% Carbonate: 59.0 %

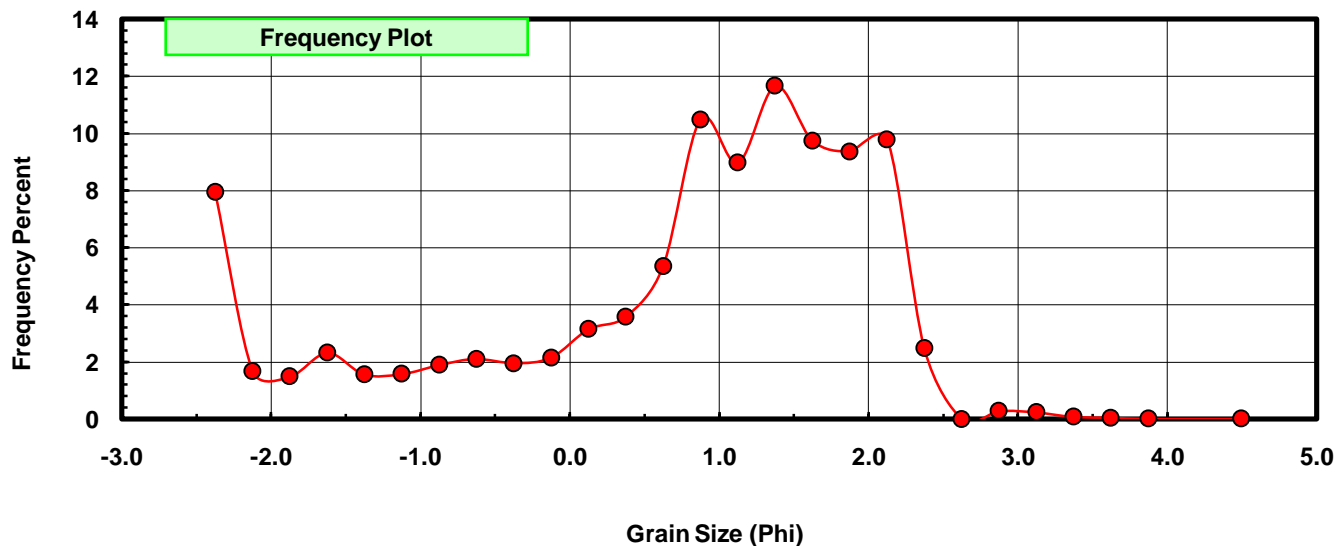
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	3.413	7.946	7.946
-2.00	-2.125	0.721	1.679	9.625
-1.75	-1.875	0.644	1.499	11.125
-1.50	-1.625	0.996	2.319	13.444
-1.25	-1.375	0.671	1.562	15.006
-1.00	-1.125	0.681	1.586	16.591
-0.75	-0.875	0.817	1.902	18.494
-0.50	-0.625	0.908	2.114	20.608
-0.25	-0.375	0.841	1.958	22.566
0.00	-0.125	0.926	2.156	24.722
0.25	0.125	1.353	3.150	27.872
0.50	0.375	1.542	3.590	31.462
0.75	0.625	2.302	5.360	36.822
1.00	0.875	4.503	10.484	47.306
1.25	1.125	3.853	8.971	56.277
1.50	1.375	5.010	11.665	67.942
1.75	1.625	4.187	9.749	77.690
2.00	1.875	4.024	9.369	87.059
2.25	2.125	4.204	9.788	96.847
2.50	2.375	1.064	2.477	99.325
2.75	2.625	0.000	0.000	99.325
3.00	2.875	0.120	0.279	99.604
3.25	3.125	0.103	0.240	99.844
3.50	3.375	0.035	0.081	99.925
3.75	3.625	0.020	0.047	99.972
4.00	3.875	0.005	0.012	99.984
5.00	4.500	0.007	0.016	100.000

Statistical Results			
Mean:	0.6566	phi	(0.6344 mm)
Standard Dev:	1.4161	phi-units	(0.3747 mm)
Skewness:	-0.9408	dimensionless	
Kurtosis:	2.7664	dimensionless	
5th Moment:	-4.5040	dimensionless	
6th Moment:	10.5190	dimensionless	
RARD *	2.1567	dimensionless	
Median	0.9501	phi	(0.5176 mm)

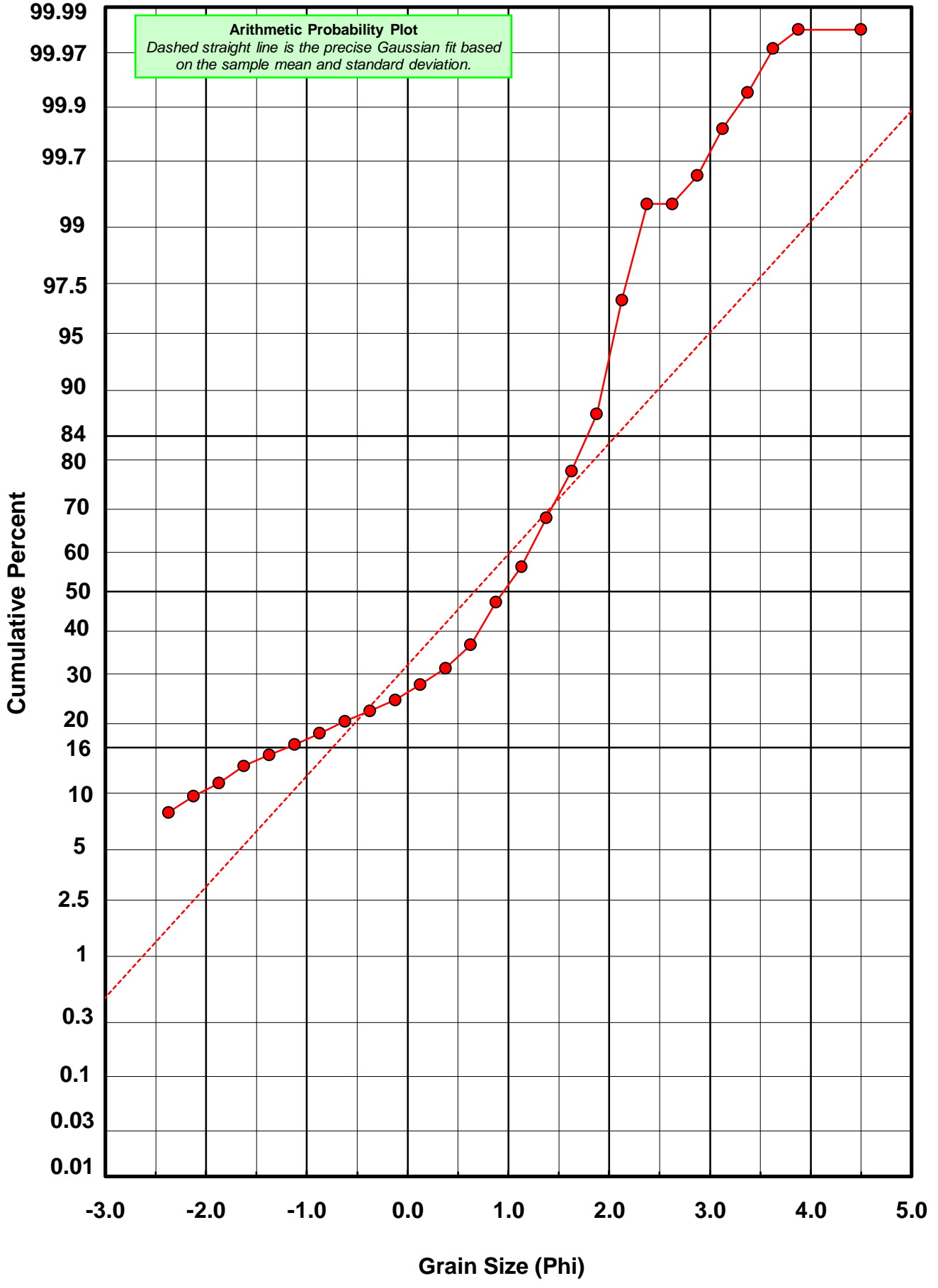
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Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0	
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
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LE-33-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-33-BB

Total Digested Mass: 28.886 grams

% Silica: 41.0 %

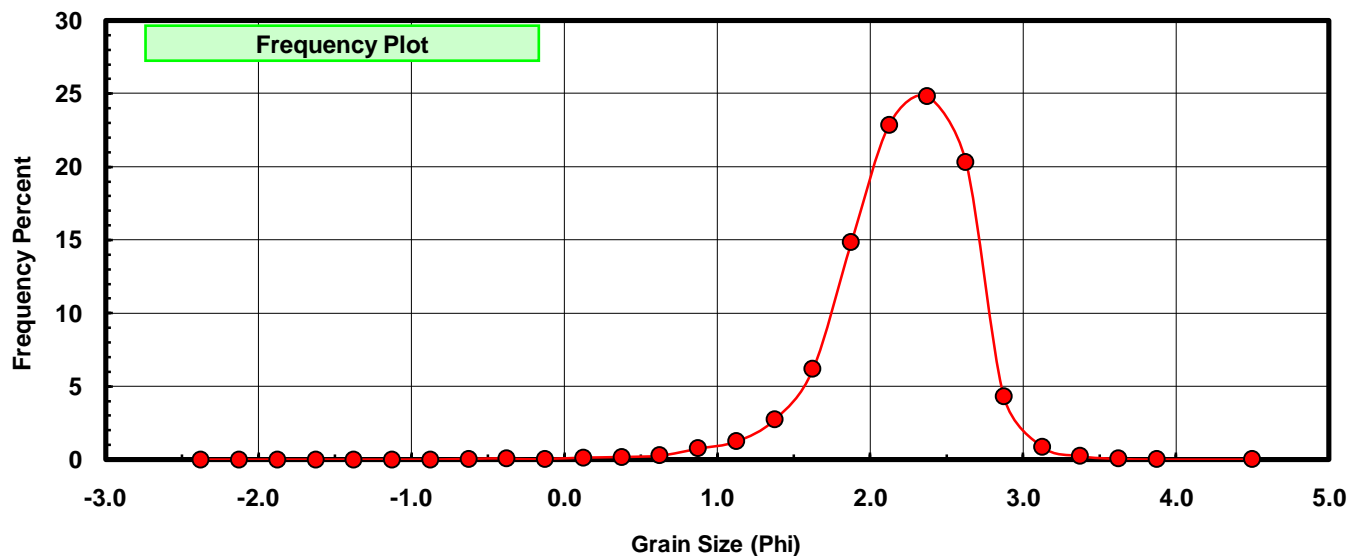
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.014	0.048	0.048
-0.25	-0.375	0.022	0.076	0.125
0.00	-0.125	0.011	0.038	0.163
0.25	0.125	0.038	0.132	0.294
0.50	0.375	0.048	0.166	0.460
0.75	0.625	0.080	0.277	0.737
1.00	0.875	0.218	0.755	1.492
1.25	1.125	0.357	1.236	2.728
1.50	1.375	0.790	2.735	5.463
1.75	1.625	1.786	6.183	11.646
2.00	1.875	4.286	14.838	26.483
2.25	2.125	6.599	22.845	49.328
2.50	2.375	7.163	24.797	74.126
2.75	2.625	5.869	20.318	94.444
3.00	2.875	1.247	4.317	98.761
3.25	3.125	0.251	0.869	99.630
3.50	3.375	0.072	0.249	99.879
3.75	3.625	0.022	0.076	99.955
4.00	3.875	0.006	0.021	99.976
5.00	4.500	0.007	0.024	100.000

Statistical Results			
Mean:	2.2107	phi	(0.216 mm)
Standard Dev:	0.4445	phi-units	(0.7348 mm)
Skewness:	-1.0086	dimensionless	
Kurtosis:	6.3225	dimensionless	
5th Moment:	-20.5002	dimensionless	
6th Moment:	120.0908	dimensionless	
RARD *	0.2011	dimensionless	
Median	2.1318	phi	(0.2282 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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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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