

## Onshore Grab Sample

Sample: LE-21-BB  
Sample Taken By: D. Phelps  
Sample Collected On: 11/7/09  
Splits? N/A

County: Lee  
Latitude: 26° 32' 26.9"  
Longitude: 82° 11' 49"  
Datum: WGS 84  
Surf. Elev: N/A  
Datum: N/A

### Fine Data Summary

Total Sample Weight	53.987 grams
Total Fines in Sample	0.313 grams
Total Percent Fines	0.58 %

### Dry Sieving Summary

Total Sample Weight	53.789 grams
Total Digested Weight	42.826 grams
Total Carbonate Weight	10.963 grams
Total Silica %	79.62 %
Total Carbonate %	20.38 %
Carbonate/Silica Ratio	0.256

### General Comments:

None

### Description

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-21-BB

Total Sample Mass: 53.789 grams

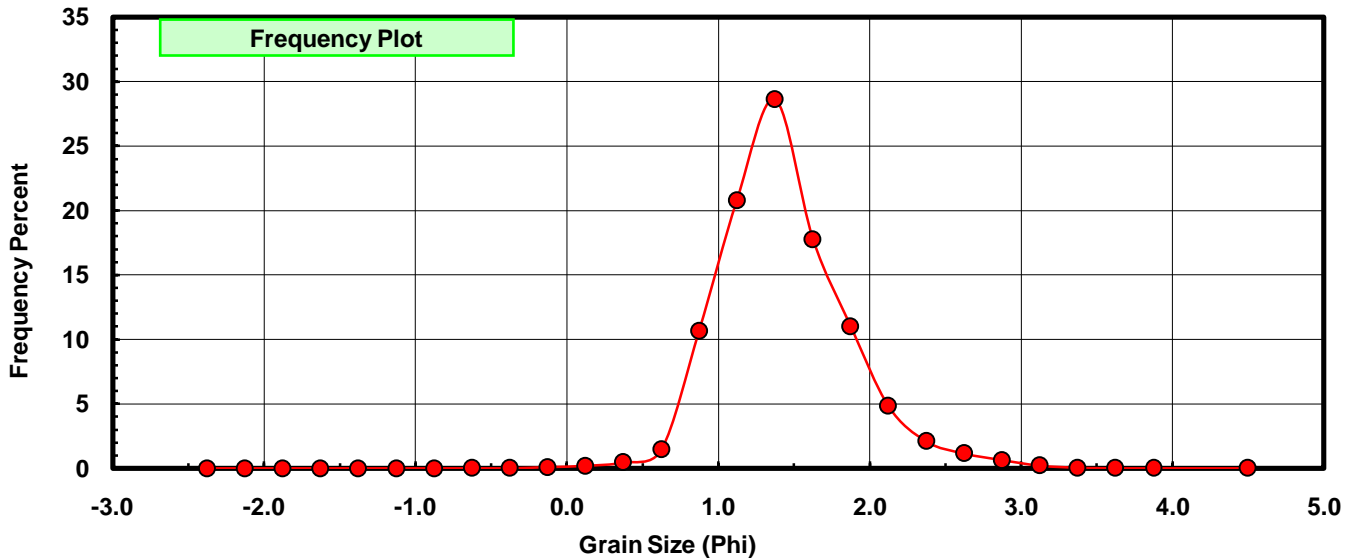
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.004	0.007	0.007
-0.25	-0.375	0.008	0.015	0.022
0.00	-0.125	0.048	0.089	0.112
0.25	0.125	0.095	0.177	0.288
0.50	0.375	0.242	0.450	0.738
0.75	0.625	0.778	1.446	2.184
1.00	0.875	5.734	10.660	12.845
1.25	1.125	11.185	20.794	33.639
1.50	1.375	15.392	28.616	62.254
1.75	1.625	9.552	17.758	80.013
2.00	1.875	5.920	11.006	91.019
2.25	2.125	2.592	4.819	95.837
2.50	2.375	1.124	2.090	97.927
2.75	2.625	0.627	1.166	99.093
3.00	2.875	0.341	0.634	99.727
3.25	3.125	0.111	0.206	99.933
3.50	3.375	0.021	0.039	99.972
3.75	3.625	0.005	0.009	99.981
4.00	3.875	0.004	0.007	99.989
5.00	4.50	0.006	0.011	100.000

Statistical Results			
Mean:	1.4361	phi	(0.3696 mm)
Standard Dev:	0.4319	phi-units	(0.7413 mm)
Skewness:	0.6693	dimensionless	
Kurtosis:	4.5891	dimensionless	
5th Moment:	9.0292	dimensionless	
6th Moment:	53.8653	dimensionless	
RARD *	0.3007	dimensionless	
Median	1.2679	phi	(0.4153 mm)

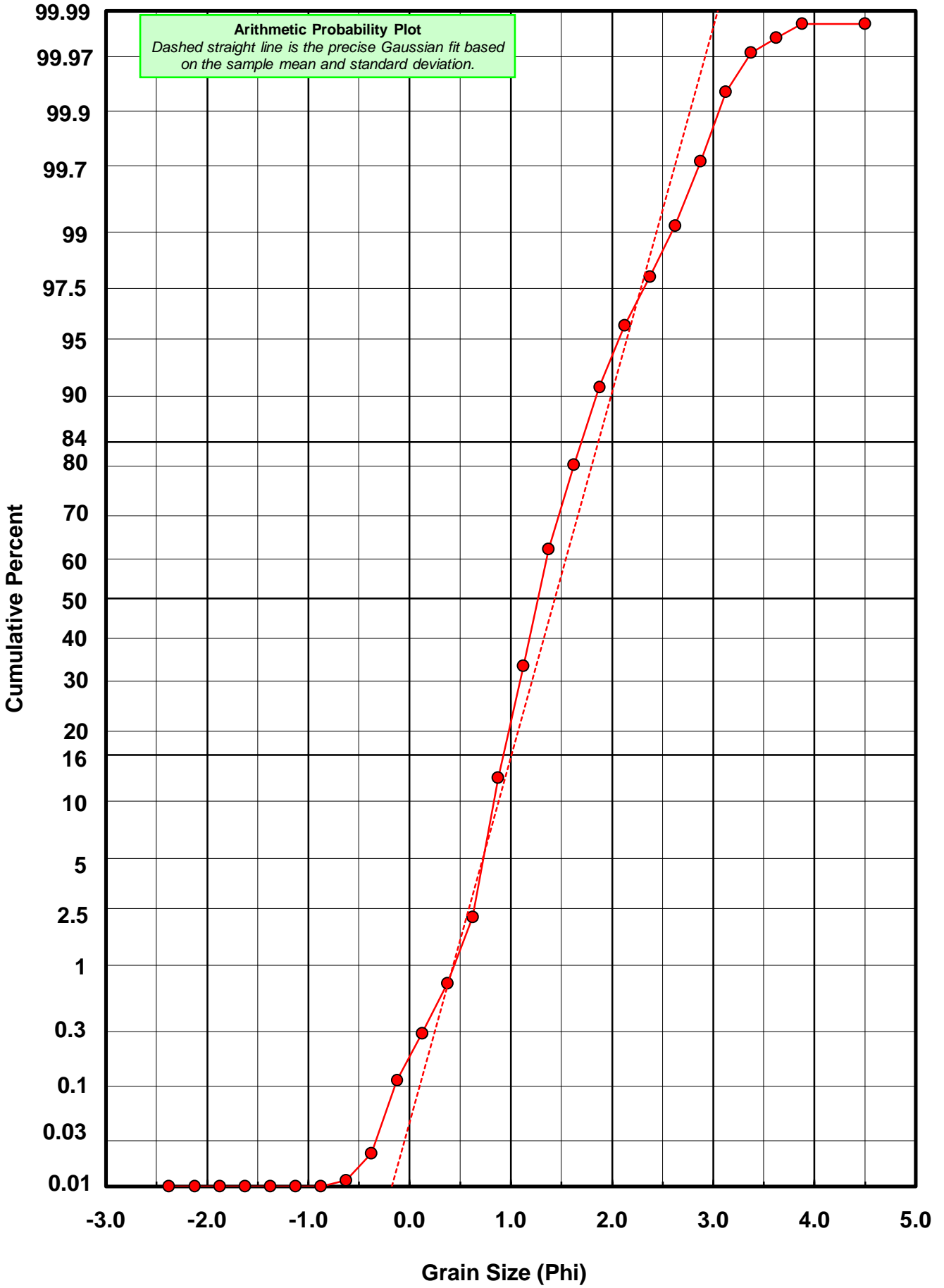
\* RARD = reciprocal absolute relative dispersion (see below)

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-21-BB



# Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: LE-21-BB

Total Carbonate Mass: 10.994 grams

% Carbonate: 20.4 %

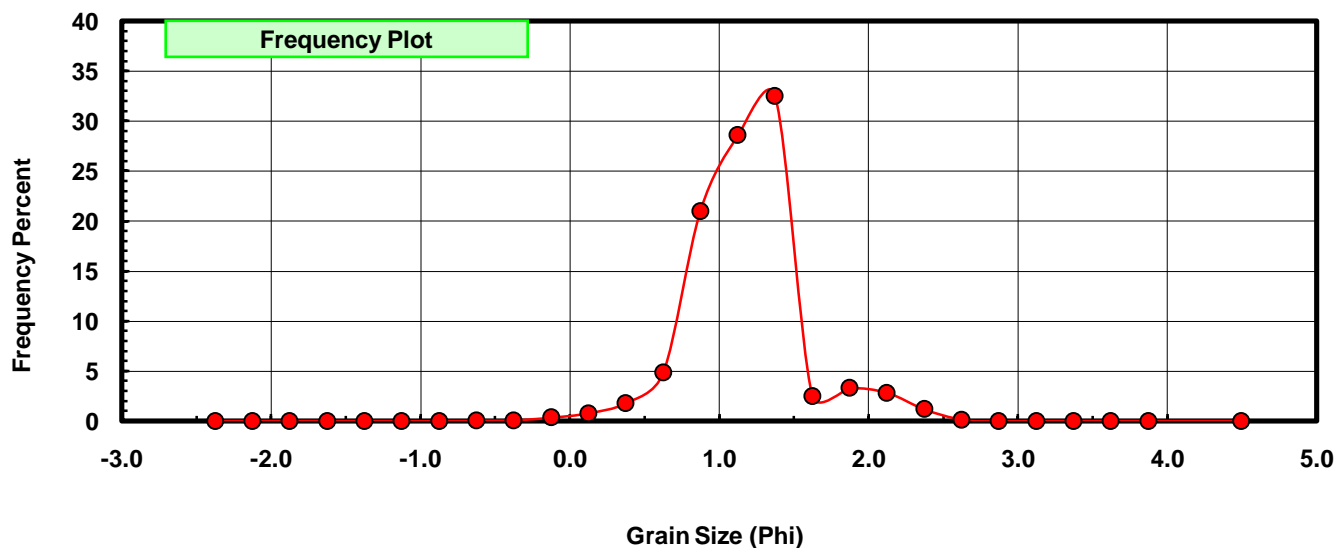
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.004	0.036	0.036
-0.25	-0.375	0.008	0.073	0.109
0.00	-0.125	0.040	0.364	0.473
0.25	0.125	0.087	0.791	1.264
0.50	0.375	0.199	1.810	3.074
0.75	0.625	0.534	4.857	7.932
1.00	0.875	2.308	20.993	28.925
1.25	1.125	3.144	28.597	57.522
1.50	1.375	3.571	32.481	90.004
1.75	1.625	0.276	2.510	92.514
2.00	1.875	0.366	3.329	95.843
2.25	2.125	0.312	2.838	98.681
2.50	2.375	0.131	1.192	99.873
2.75	2.625	0.014	0.127	100.000
3.00	2.875	0.000	0.000	100.000
3.25	3.125	0.000	0.000	100.000
3.50	3.375	0.000	0.000	100.000
3.75	3.625	0.000	0.000	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.1844	phi	(0.44 mm)
Standard Dev:	0.3972	phi-units	(0.7593 mm)
Skewness:	0.2815	dimensionless	
Kurtosis:	4.5911	dimensionless	
5th Moment:	1.6873	dimensionless	
6th Moment:	35.9289	dimensionless	
RARD *	0.3354	dimensionless	
Median	1.0592	phi	(0.4799 mm)

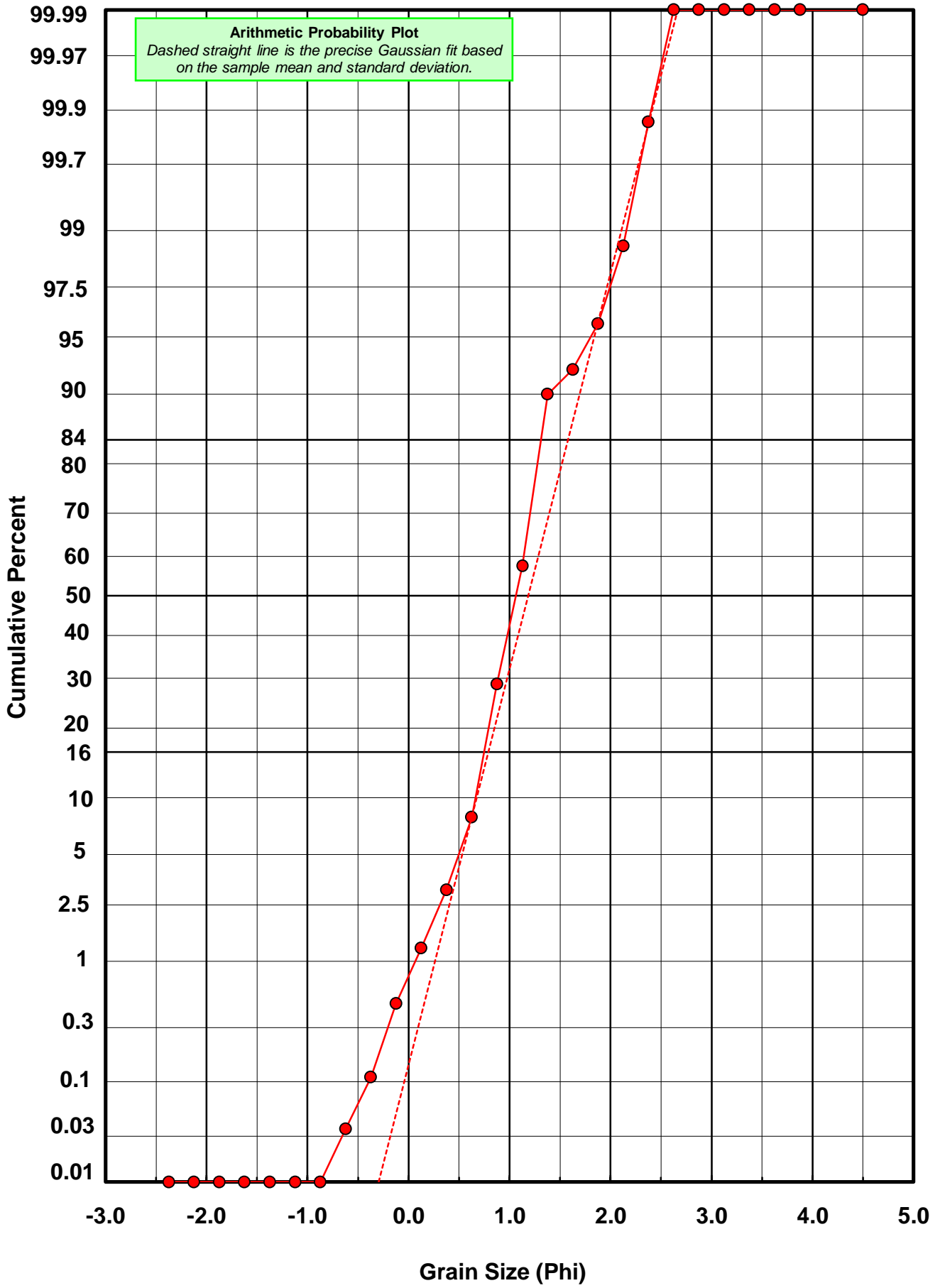
\* RARD = reciprocal absolute relative dispersion (see below)

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
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> 1.33	Poor homogeneity (e.g., glacial)



# LE-21-BB



# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-21-BB

Total Digested Mass: 42.826 grams

% Silica: 79.6 %

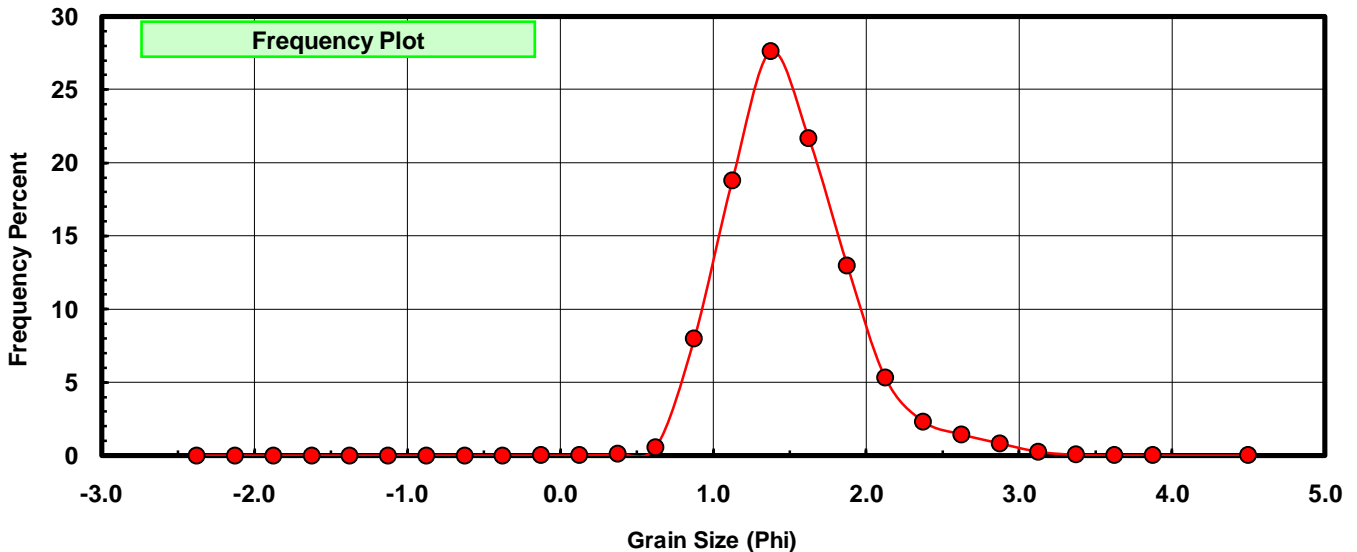
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.008	0.019	0.019
0.25	0.125	0.008	0.019	0.037
0.50	0.375	0.043	0.100	0.138
0.75	0.625	0.244	0.570	0.708
1.00	0.875	3.426	8.000	8.707
1.25	1.125	8.041	18.776	27.483
1.50	1.375	11.821	27.602	55.086
1.75	1.625	9.276	21.660	76.745
2.00	1.875	5.554	12.969	89.714
2.25	2.125	2.280	5.324	95.038
2.50	2.375	0.993	2.319	97.357
2.75	2.625	0.613	1.431	98.788
3.00	2.875	0.351	0.820	99.608
3.25	3.125	0.116	0.271	99.879
3.50	3.375	0.028	0.065	99.944
3.75	3.625	0.011	0.026	99.970
4.00	3.875	0.006	0.014	99.984
5.00	4.500	0.007	0.016	100.000

Statistical Results			
Mean:	1.5021	phi	(0.3531 mm)
Standard Dev:	0.4234	phi-units	(0.7457 mm)
Skewness:	0.8711	dimensionless	
Kurtosis:	4.7411	dimensionless	
5th Moment:	13.0133	dimensionless	
6th Moment:	63.4393	dimensionless	
RARD *	0.2819	dimensionless	
Median	1.3289	phi	(0.3981 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)
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