

Onshore Grab Sample

Sample: LE-48-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/14/10
Splits? N/A

County: Lee
Latitude: 26° 23' 53.2"
Longitude: 81° 53' 9.7"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 53.207 grams
Total Fines in Sample 0.169 grams
Total Percent Fines 0.32 %

Dry Sieving Summary

Total Sample Weight 53.140 grams
Total Digested Weight 17.246 grams
Total Carbonate Weight 35.894 grams
Total Silica % 32.45 %
Total Carbonate % 67.55 %
Carbonate/Silica Ratio 2.081

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-48-BB

Total Sample Mass: 53.140 grams

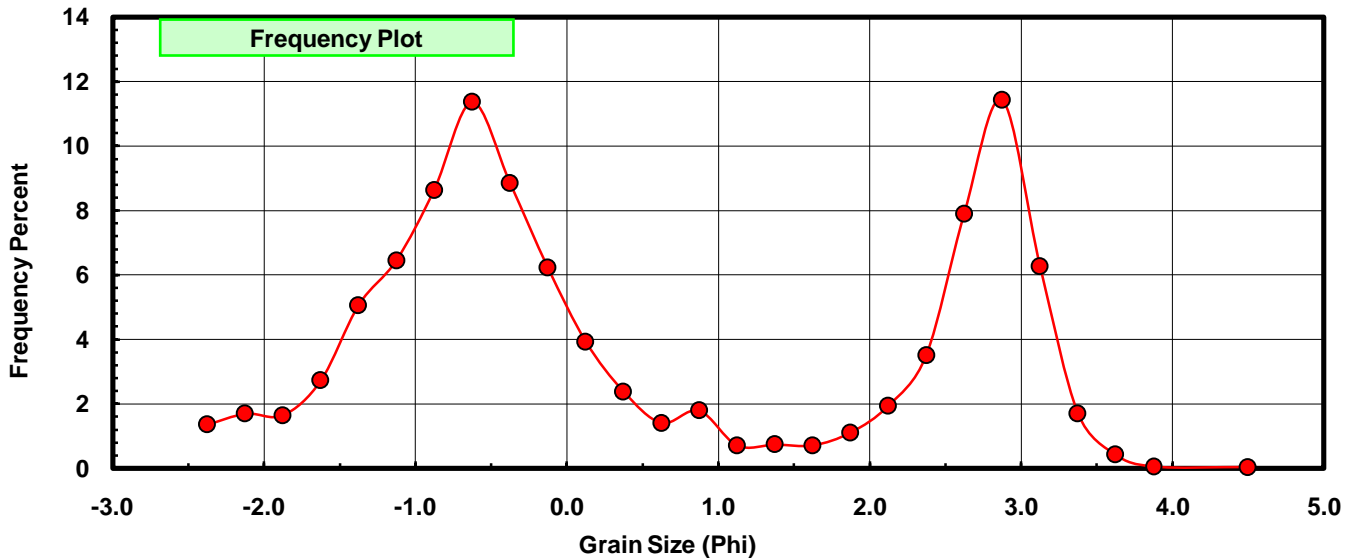
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.718	1.351	1.351
-2.00	-2.125	0.901	1.696	3.047
-1.75	-1.875	0.872	1.641	4.688
-1.50	-1.625	1.451	2.731	7.418
-1.25	-1.375	2.688	5.058	12.476
-1.00	-1.125	3.425	6.445	18.922
-0.75	-0.875	4.586	8.630	27.552
-0.50	-0.625	6.039	11.364	38.916
-0.25	-0.375	4.698	8.841	47.757
0.00	-0.125	3.305	6.219	53.976
0.25	0.125	2.089	3.931	57.907
0.50	0.375	1.266	2.382	60.290
0.75	0.625	0.747	1.406	61.696
1.00	0.875	0.955	1.797	63.493
1.25	1.125	0.378	0.711	64.204
1.50	1.375	0.392	0.738	64.942
1.75	1.625	0.376	0.708	65.649
2.00	1.875	0.587	1.105	66.754
2.25	2.125	1.030	1.938	68.692
2.50	2.375	1.863	3.506	72.198
2.75	2.625	4.192	7.889	80.087
3.00	2.875	6.074	11.430	91.517
3.25	3.125	3.329	6.265	97.781
3.50	3.375	0.906	1.705	99.486
3.75	3.625	0.227	0.427	99.913
4.00	3.875	0.027	0.051	99.964
5.00	4.50	0.019	0.036	100.000

Statistical Results			
Mean:	0.5484	phi	(0.6838 mm)
Standard Dev:	1.7594	phi-units	(0.2954 mm)
Skewness:	0.3249	dimensionless	
Kurtosis:	1.5561	dimensionless	
5th Moment:	0.7749	dimensionless	
6th Moment:	2.9107	dimensionless	
RARD *	3.2079	dimensionless	
Median	-0.2848	phi	(1.2183 mm)

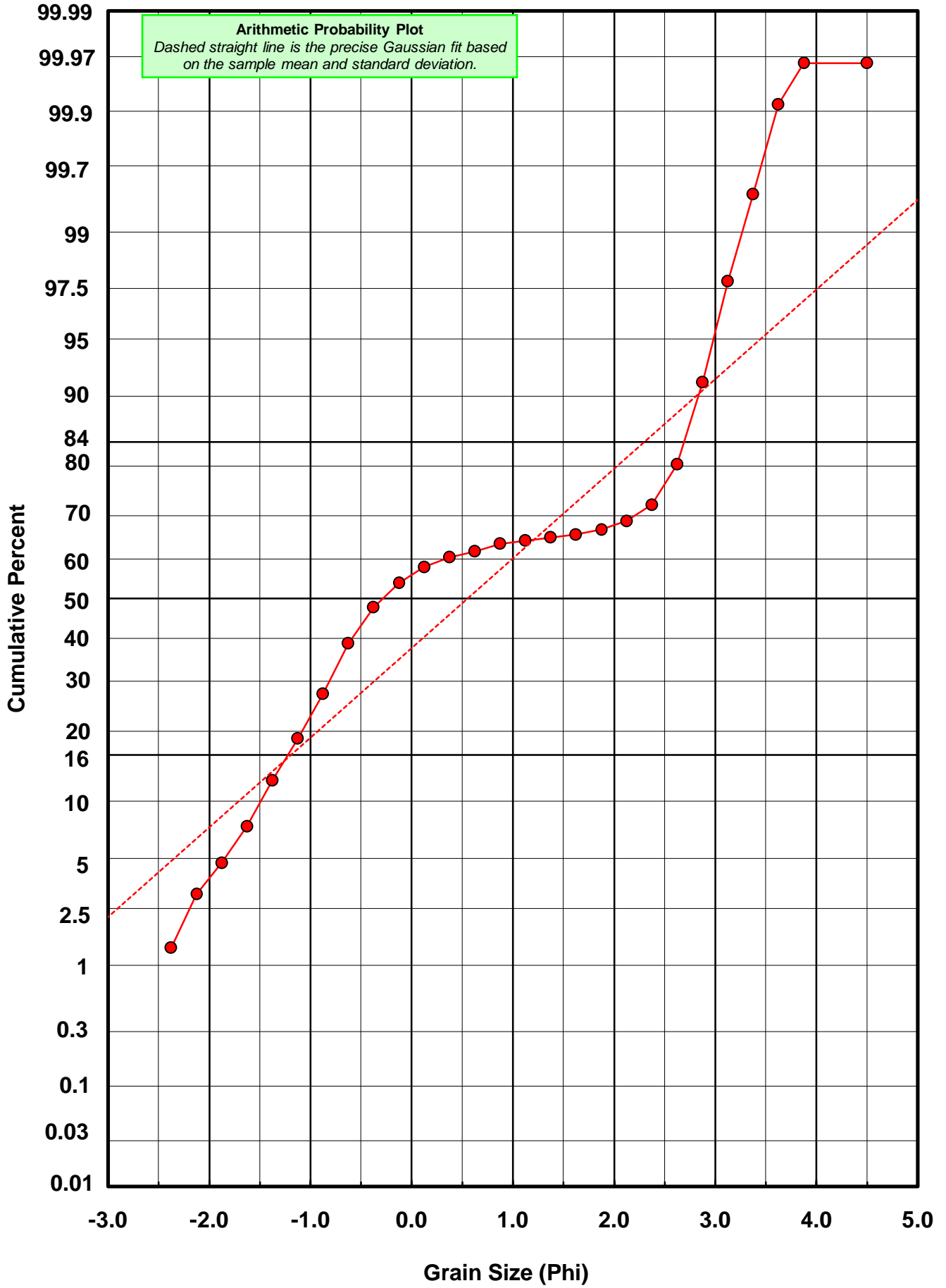
* RARD = reciprocal absolute relative dispersion (see below)

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-48-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: LE-48-BB

Total Carbonate Mass: 35.896 grams

% Carbonate: 67.5 %

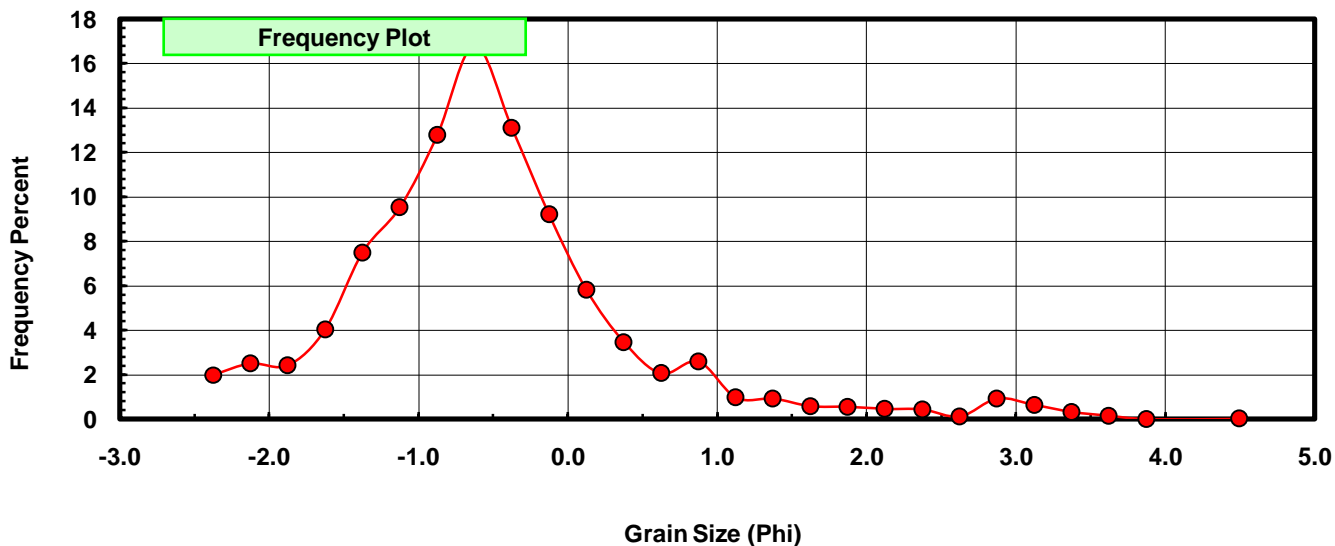
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.718	2.000	2.000
-2.00	-2.125	0.901	2.510	4.510
-1.75	-1.875	0.872	2.429	6.939
-1.50	-1.625	1.451	4.042	10.982
-1.25	-1.375	2.688	7.488	18.470
-1.00	-1.125	3.425	9.541	28.011
-0.75	-0.875	4.586	12.776	40.787
-0.50	-0.625	6.039	16.824	57.611
-0.25	-0.375	4.698	13.088	70.699
0.00	-0.125	3.305	9.207	79.906
0.25	0.125	2.089	5.820	85.725
0.50	0.375	1.242	3.460	89.185
0.75	0.625	0.740	2.062	91.247
1.00	0.875	0.933	2.599	93.846
1.25	1.125	0.350	0.975	94.821
1.50	1.375	0.335	0.933	95.754
1.75	1.625	0.209	0.582	96.337
2.00	1.875	0.199	0.554	96.891
2.25	2.125	0.166	0.462	97.353
2.50	2.375	0.159	0.443	97.796
2.75	2.625	0.046	0.128	97.925
3.00	2.875	0.333	0.928	98.852
3.25	3.125	0.231	0.644	99.496
3.50	3.375	0.117	0.326	99.822
3.75	3.625	0.056	0.156	99.978
4.00	3.875	0.000	0.000	99.978
5.00	4.500	0.008	0.022	100.000

Statistical Results			
Mean:	-0.5122	phi	(1.4262 mm)
Standard Dev:	0.9920	phi-units	(0.5028 mm)
Skewness:	1.2492	dimensionless	
Kurtosis:	5.9626	dimensionless	
5th Moment:	16.9918	dimensionless	
6th Moment:	65.6905	dimensionless	
RARD *	1.9366	dimensionless	
Median	-0.7381	phi	(1.668 mm)

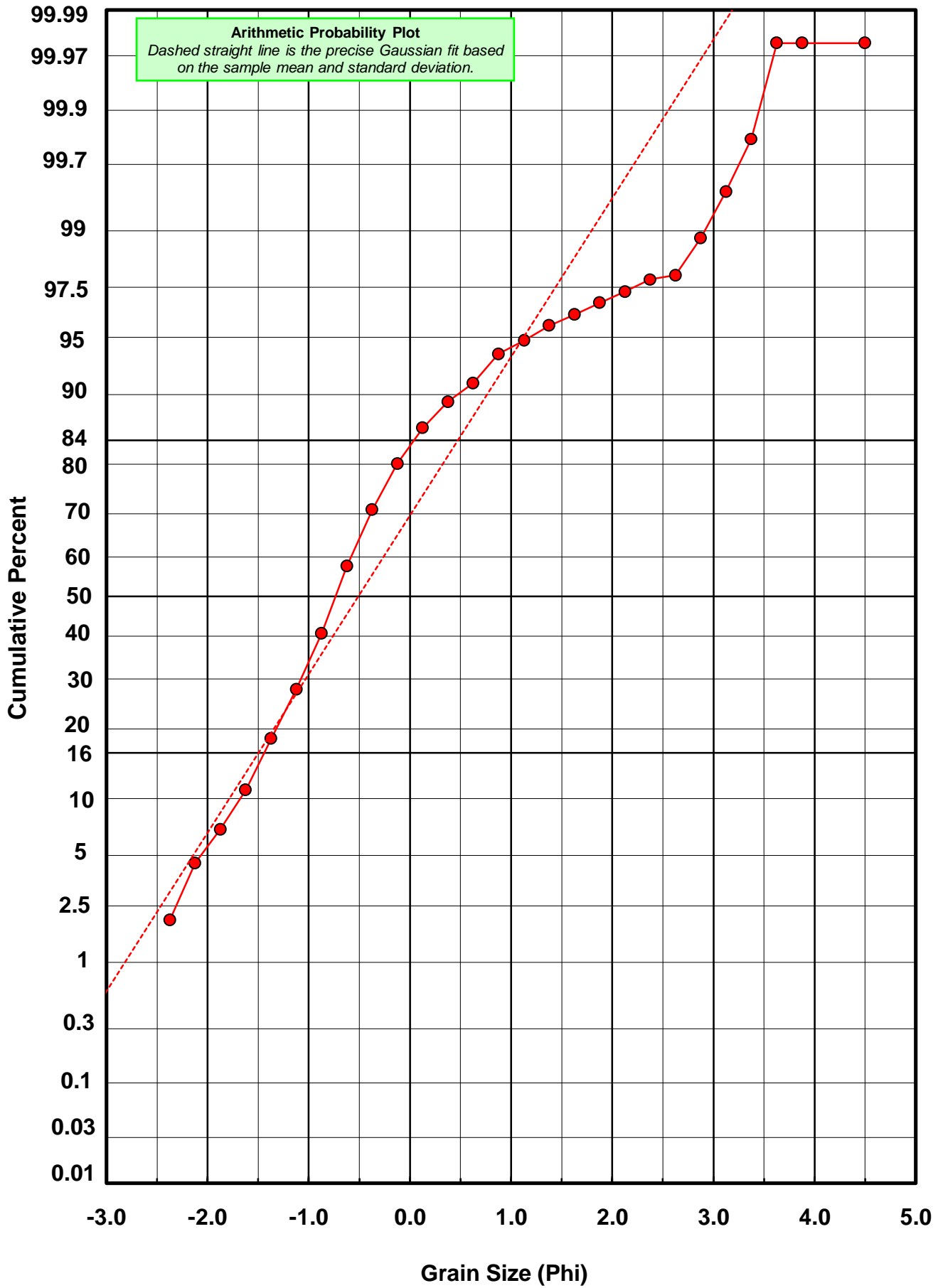
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LE-48-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-48-BB

Total Digested Mass: 17.246 grams

% Silica: 32.5 %

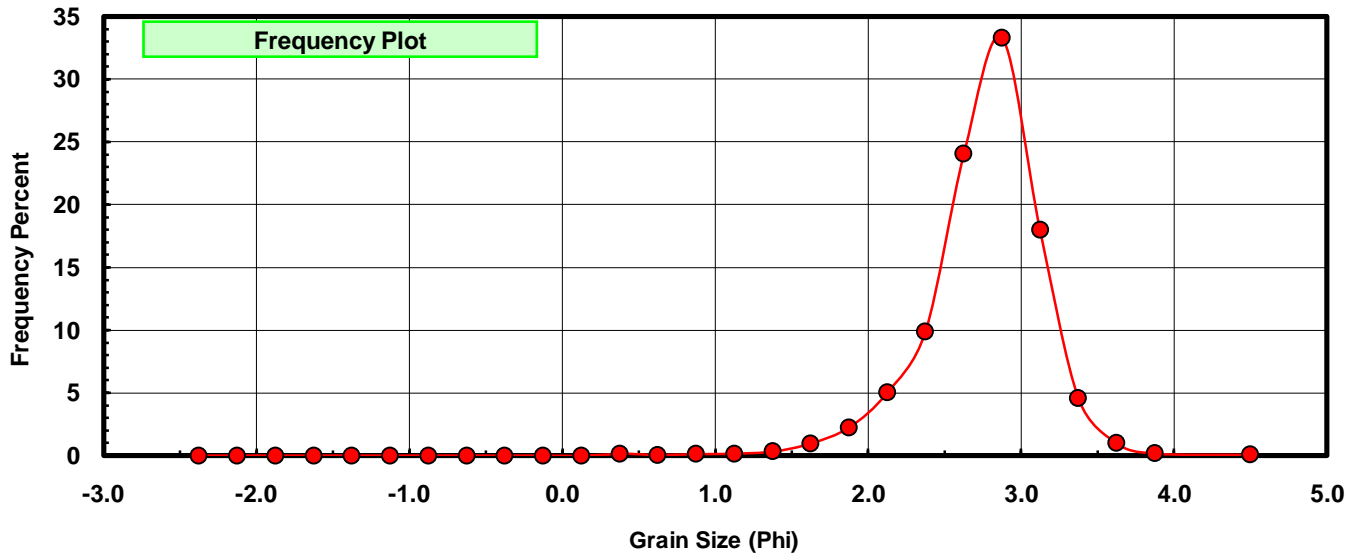
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-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	0.024	0.139	0.139
0.75	0.625	0.007	0.041	0.180
1.00	0.875	0.022	0.128	0.307
1.25	1.125	0.028	0.162	0.470
1.50	1.375	0.057	0.331	0.800
1.75	1.625	0.167	0.968	1.769
2.00	1.875	0.388	2.250	4.018
2.25	2.125	0.864	5.010	9.028
2.50	2.375	1.704	9.881	18.909
2.75	2.625	4.146	24.040	42.949
3.00	2.875	5.741	33.289	76.238
3.25	3.125	3.098	17.964	94.202
3.50	3.375	0.789	4.575	98.777
3.75	3.625	0.171	0.992	99.768
4.00	3.875	0.029	0.168	99.936
5.00	4.500	0.011	0.064	100.000

Statistical Results			
Mean:	2.7565	phi	(0.148 mm)
Standard Dev:	0.4009	phi-units	(0.7574 mm)
Skewness:	-1.0298	dimensionless	
Kurtosis:	6.4344	dimensionless	
5th Moment:	-20.7425	dimensionless	
6th Moment:	118.9734	dimensionless	
RARD *	0.1454	dimensionless	
Median	2.6780	phi	(0.1563 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	
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For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{-(\phi)}$	

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