

**Onshore Grab Sample**

**Sample:** SR-01-MB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 9/14/06  
**Splits?** Yes

**County:** Santa Rosa  
**Latitude:** 30° 22' 55.54"  
**Longitude:** 86° 51' 1.34"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 76.013 grams  
Total Fines in Sample 0.022 grams  
Total Percent Fines 0.03 %

**Dry Sieving Summary**

Total Sample Weight 75.928 grams  
Total Digested Weight 75.857 grams  
Total Carbonate Weight 0.071 grams  
Total Silica % 99.91 %  
Total Carbonate % 0.09 %  
Carbonate/Silica Ratio 0.001

**General Comments:**

Original Weight (with Beaker): 461.508

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SR-01-MB

Total Sample Mass: 75.928 grams

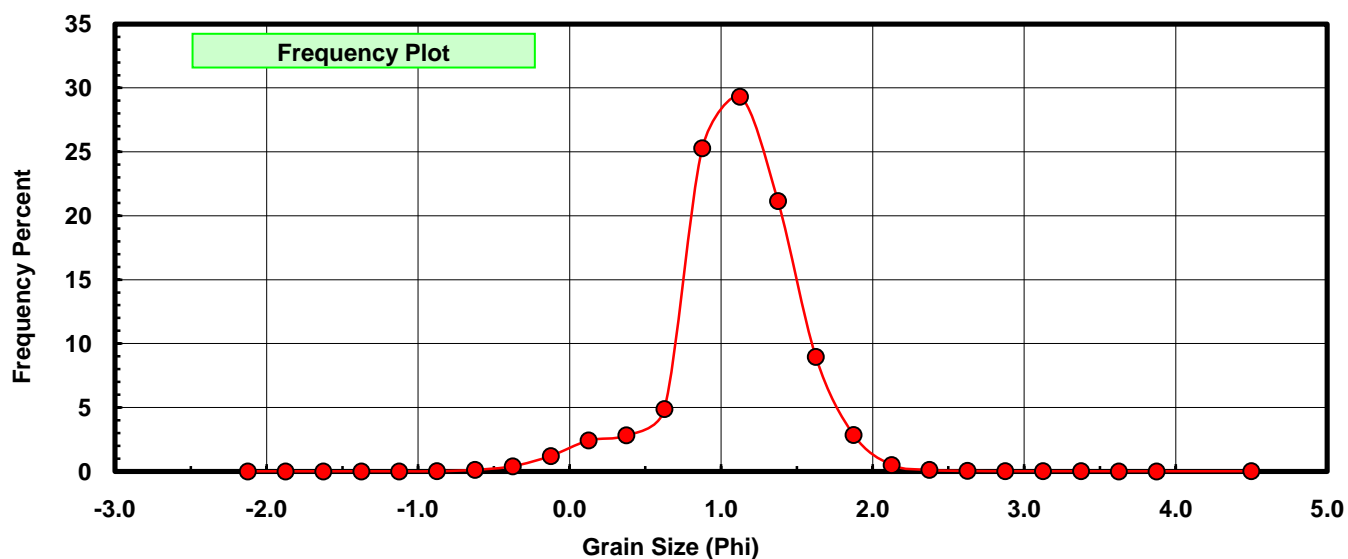
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.003	0.004	0.004
-0.50	-0.625	0.087	0.115	0.119
-0.25	-0.375	0.300	0.395	0.514
0.00	-0.125	0.913	1.202	1.716
0.25	0.125	1.831	2.411	4.128
0.50	0.375	2.136	2.813	6.941
0.75	0.625	3.696	4.868	11.809
1.00	0.875	19.185	25.267	37.076
1.25	1.125	22.260	29.317	66.393
1.50	1.375	16.049	21.137	87.530
1.75	1.625	6.804	8.961	96.491
2.00	1.875	2.161	2.846	99.338
2.25	2.125	0.380	0.500	99.838
2.50	2.375	0.080	0.105	99.943
2.75	2.625	0.022	0.029	99.972
3.00	2.875	0.006	0.008	99.980
3.25	3.125	0.005	0.007	99.987
3.50	3.375	0.003	0.004	99.991
3.75	3.625	0.001	0.001	99.992
4.00	3.875	0.002	0.003	99.995
5.00	4.50	0.004	0.005	100.000

Statistical Results			
Mean:	1.0956	phi	(0.4679 mm)
Standard Dev:	0.4013	phi-units	(0.7572 mm)
Skewness:	-0.5730	dimensionless	
Kurtosis:	5.0345	dimensionless	
5th Moment:	-4.4511	dimensionless	
6th Moment:	65.4034	dimensionless	
RARD *	0.3662	dimensionless	
Median	0.9852	phi	(0.5052 mm)

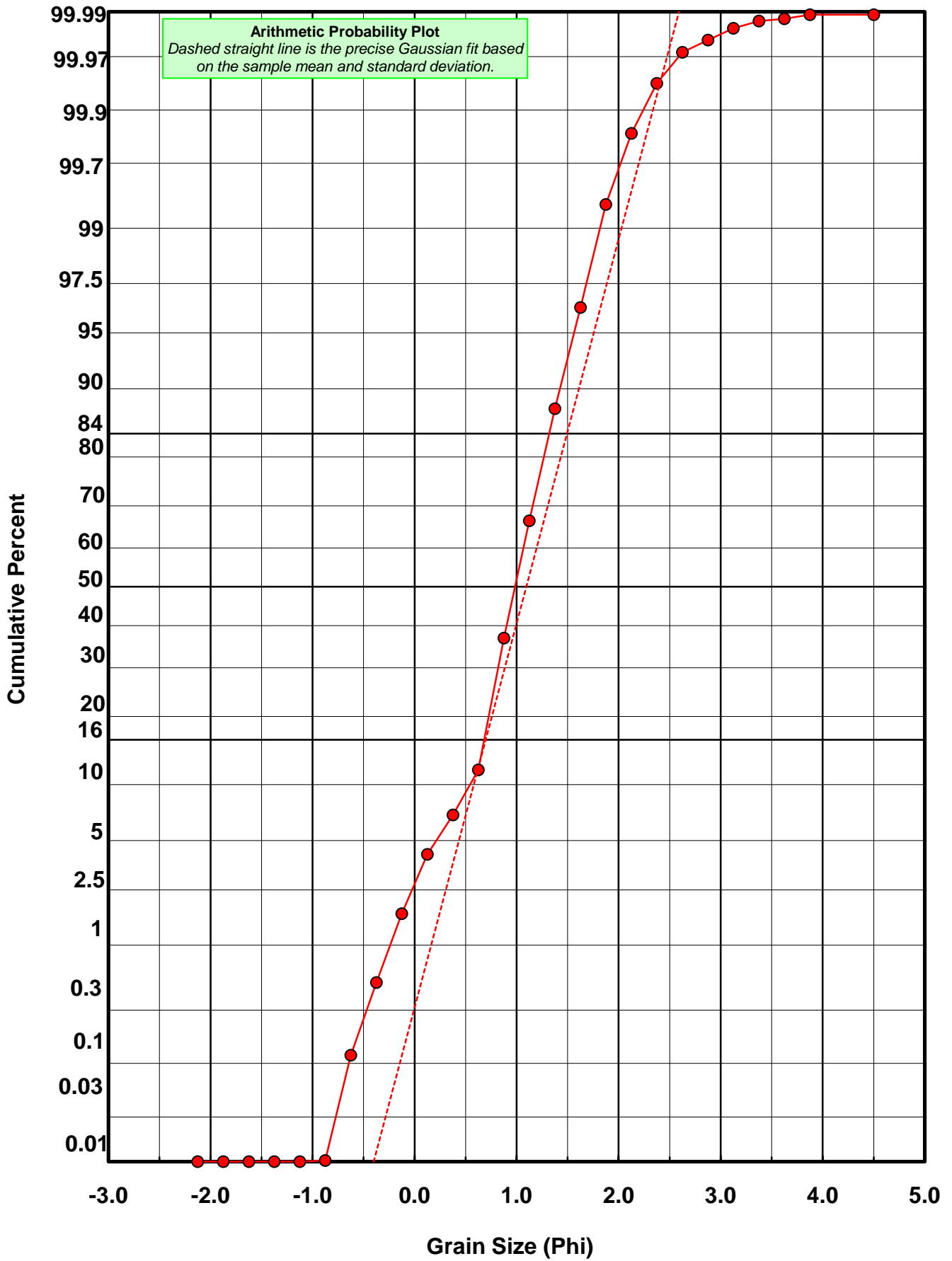
\* RARD = reciprocal absolute relative dispersion (see below)

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)



# SR-01-MB



# Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SR-01-MB

Total Carbonate Mass: 1.538 grams

% Carbonate: 0.1 %

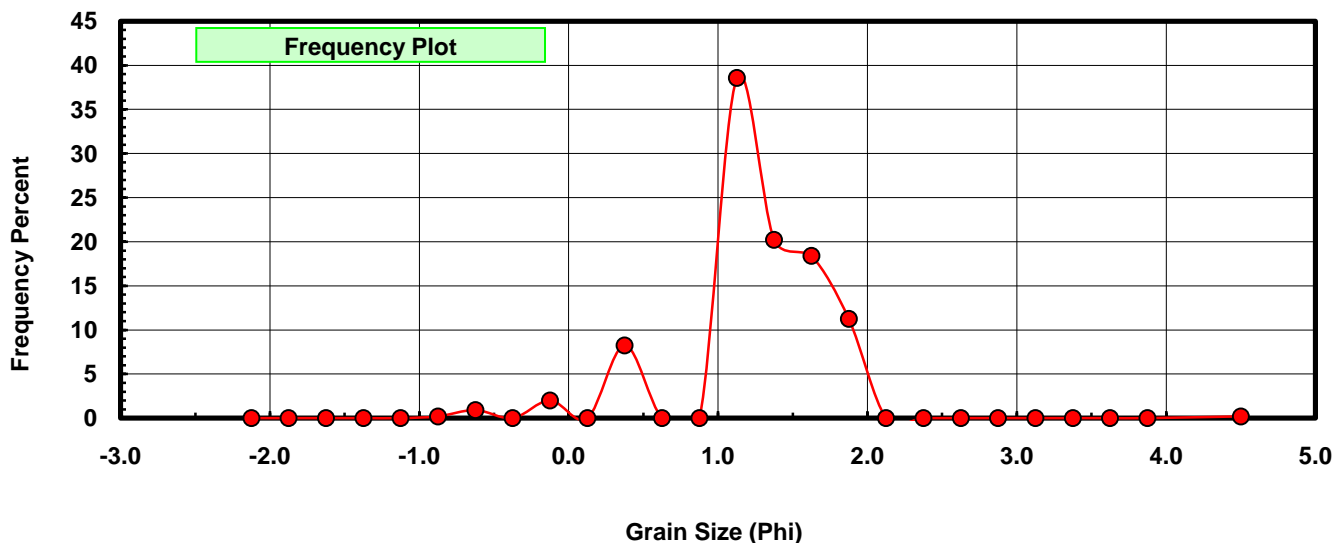
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.003	0.195	0.195
-0.50	-0.625	0.014	0.910	1.105
-0.25	-0.375	0.000	0.000	1.105
0.00	-0.125	0.031	2.016	3.121
0.25	0.125	0.000	0.000	3.121
0.50	0.375	0.127	8.257	11.378
0.75	0.625	0.000	0.000	11.378
1.00	0.875	0.000	0.000	11.378
1.25	1.125	0.593	38.557	49.935
1.50	1.375	0.311	20.221	70.156
1.75	1.625	0.283	18.401	88.557
2.00	1.875	0.173	11.248	99.805
2.25	2.125	0.000	0.000	99.805
2.50	2.375	0.000	0.000	99.805
2.75	2.625	0.000	0.000	99.805
3.00	2.875	0.000	0.000	99.805
3.25	3.125	0.000	0.000	99.805
3.50	3.375	0.000	0.000	99.805
3.75	3.625	0.000	0.000	99.805
4.00	3.875	0.000	0.000	99.805
5.00	4.500	0.003	0.195	100.000

Statistical Results			
Mean:	1.2515	phi	(0.42 mm)
Standard Dev:	0.4917	phi-units	(0.7112 mm)
Skewness:	-0.7050	dimensionless	
Kurtosis:	8.7583	dimensionless	
5th Moment:	9.6936	dimensionless	
6th Moment:	216.0217	dimensionless	
RARD *	0.3928	dimensionless	
Median	1.1258	phi	(0.4582 mm)

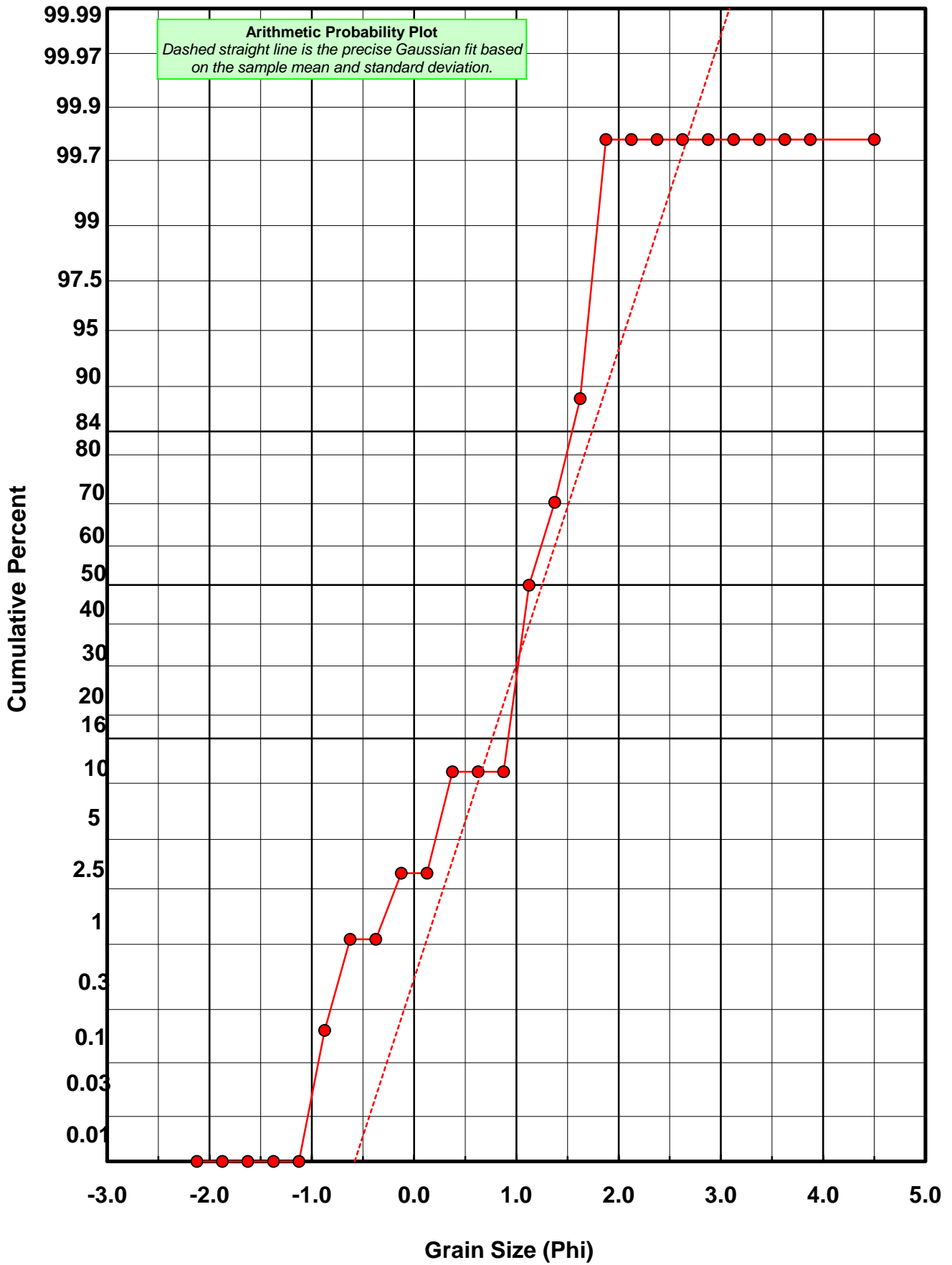
\* RARD = reciprocal absolute relative dispersion (see below)

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)



# SR-01-MB



# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SR-01-MB

Total Digested Mass: 75.857 grams

% Silica: 99.9 %

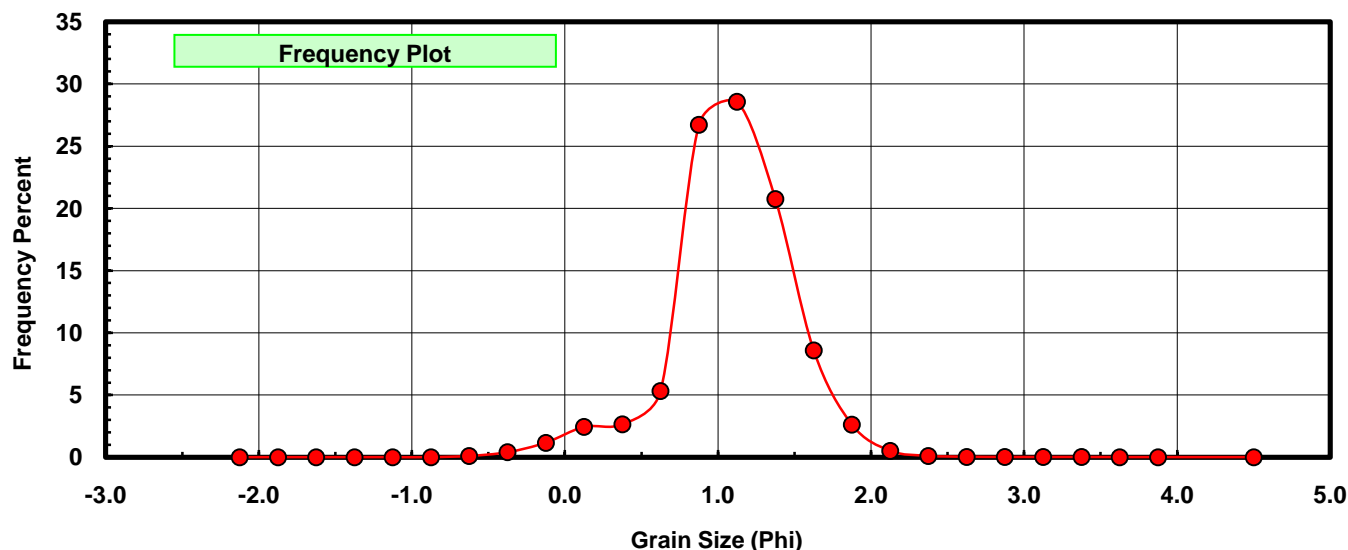
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.073	0.096	0.096
-0.25	-0.375	0.301	0.397	0.493
0.00	-0.125	0.882	1.163	1.656
0.25	0.125	1.846	2.434	4.089
0.50	0.375	2.009	2.648	6.738
0.75	0.625	4.040	5.326	12.063
1.00	0.875	20.264	26.713	38.777
1.25	1.125	21.667	28.563	67.340
1.50	1.375	15.738	20.747	88.087
1.75	1.625	6.521	8.596	96.683
2.00	1.875	1.988	2.621	99.304
2.25	2.125	0.388	0.511	99.815
2.50	2.375	0.080	0.105	99.921
2.75	2.625	0.026	0.034	99.955
3.00	2.875	0.010	0.013	99.968
3.25	3.125	0.008	0.011	99.979
3.50	3.375	0.009	0.012	99.991
3.75	3.625	0.003	0.004	99.995
4.00	3.875	0.003	0.004	99.999
5.00	4.500	0.001	0.001	100.000

Statistical Results			
Mean:	1.0876	phi	(0.4705 mm)
Standard Dev:	0.3985	phi-units	(0.7586 mm)
Skewness:	-0.5083	dimensionless	
Kurtosis:	4.9768	dimensionless	
5th Moment:	-4.2327	dimensionless	
6th Moment:	57.2394	dimensionless	
RARD *	0.3664	dimensionless	
Median	0.9732	phi	(0.5094 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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