

Onshore Grab Sample

Sample: SJ-35-MB
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 46' 49.1"
Longitude: 81° 15' 17.4"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 53.421 grams
Total Fines in Sample 0.448 grams
Total Percent Fines 0.83 %

Dry Sieving Summary

Total Sample Weight 52.877 grams
Total Digested Weight 51.816 grams
Total Carbonate Weight 1.061 grams
Total Silica % 97.99 %
Total Carbonate % 2.01 %
Carbonate/Silica Ratio 0.020

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-35-MB

Total Sample Mass: 52.877 grams

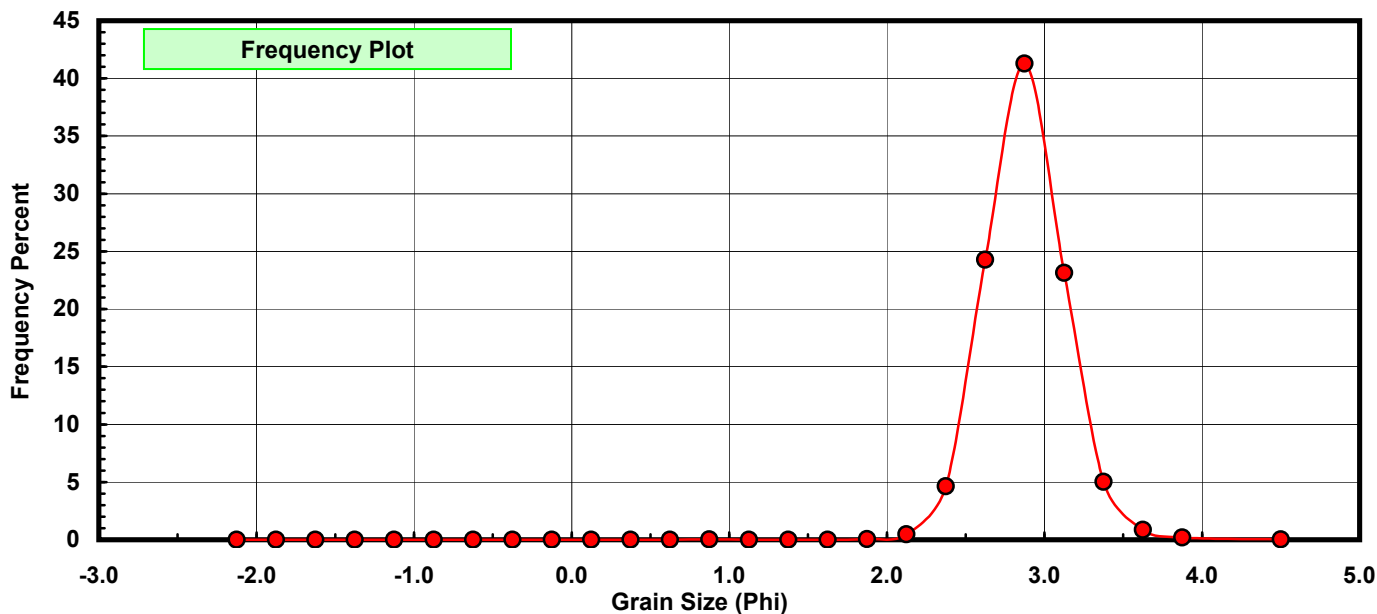
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.005	0.009	0.009
0.50	0.375	0.004	0.008	0.017
0.75	0.625	0.001	0.002	0.019
1.00	0.875	0.008	0.015	0.034
1.25	1.125	0.004	0.008	0.042
1.50	1.375	0.001	0.002	0.043
1.75	1.625	0.004	0.008	0.051
2.00	1.875	0.027	0.051	0.102
2.25	2.125	0.247	0.467	0.569
2.50	2.375	2.447	4.628	5.197
2.75	2.625	12.843	24.288	29.485
3.00	2.875	21.830	41.284	70.770
3.25	3.125	12.240	23.148	93.918
3.50	3.375	2.648	5.008	98.926
3.75	3.625	0.453	0.857	99.783
4.00	3.875	0.098	0.185	99.968
5.00	4.500	0.017	0.032	100.000

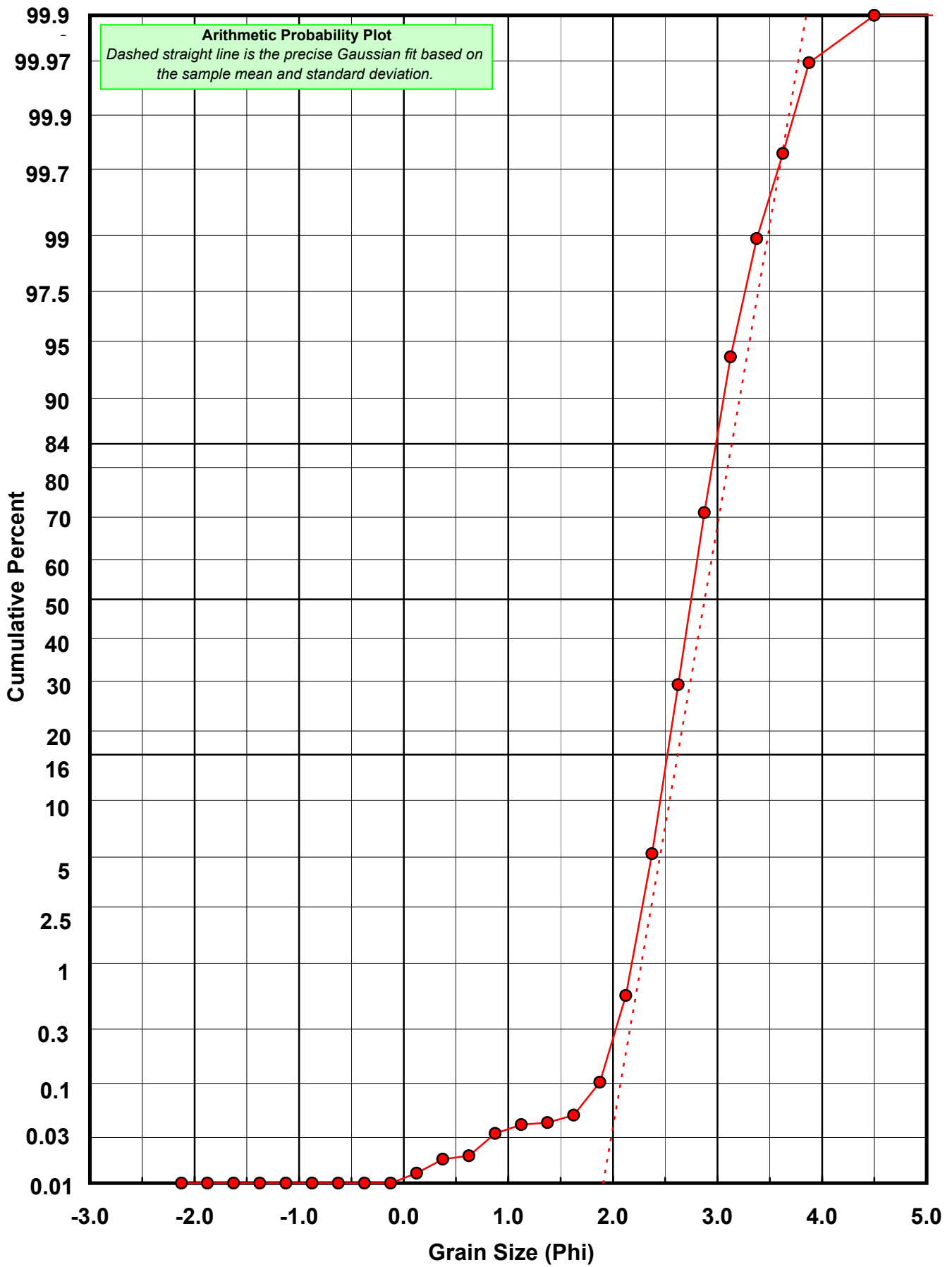
Statistical Results			
Mean:	2.8778	phi	(0.1361 mm)
Standard Dev:	0.2607	phi-units	(0.8347 mm)
Skewness:	-0.0625	dimensionless	
Kurtosis:	6.3871	dimensionless	
5th Moment:	-20.4846	dimensionless	
6th Moment:	282.0729	dimensionless	
RARD *	0.0906	dimensionless	
Median	2.7492	phi	(0.1487 mm)

* 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 Calculation Sheets	
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)





Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SJ-35-MB

Total Carbonate Mass: 3.643 grams

% Carbonate: 2.0 %

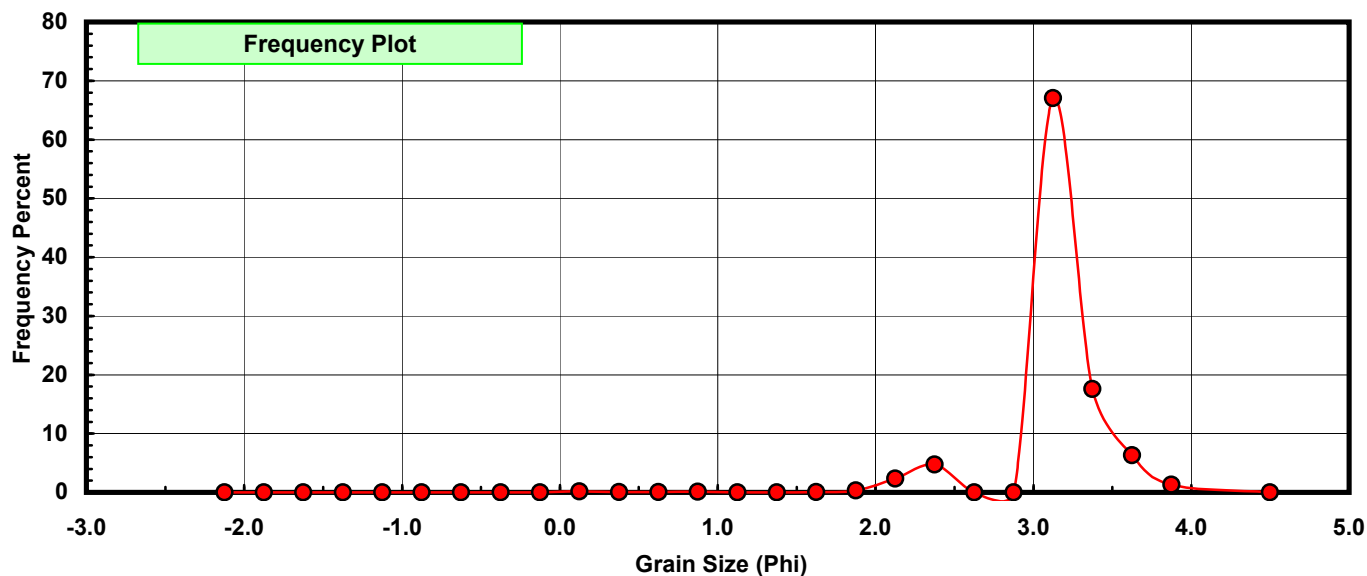
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.005	0.137	0.137
0.50	0.375	0.001	0.027	0.165
0.75	0.625	0.001	0.027	0.192
1.00	0.875	0.004	0.110	0.302
1.25	1.125	0.000	0.000	0.302
1.50	1.375	0.000	0.000	0.302
1.75	1.625	0.001	0.027	0.329
2.00	1.875	0.012	0.329	0.659
2.25	2.125	0.086	2.361	3.019
2.50	2.375	0.173	4.749	7.768
2.75	2.625	0.000	0.000	7.768
3.00	2.875	0.000	0.000	7.768
3.25	3.125	2.443	67.060	74.828
3.50	3.375	0.641	17.595	92.424
3.75	3.625	0.229	6.286	98.710
4.00	3.875	0.047	1.290	100.000
5.00	4.500	0.000	0.000	100.000

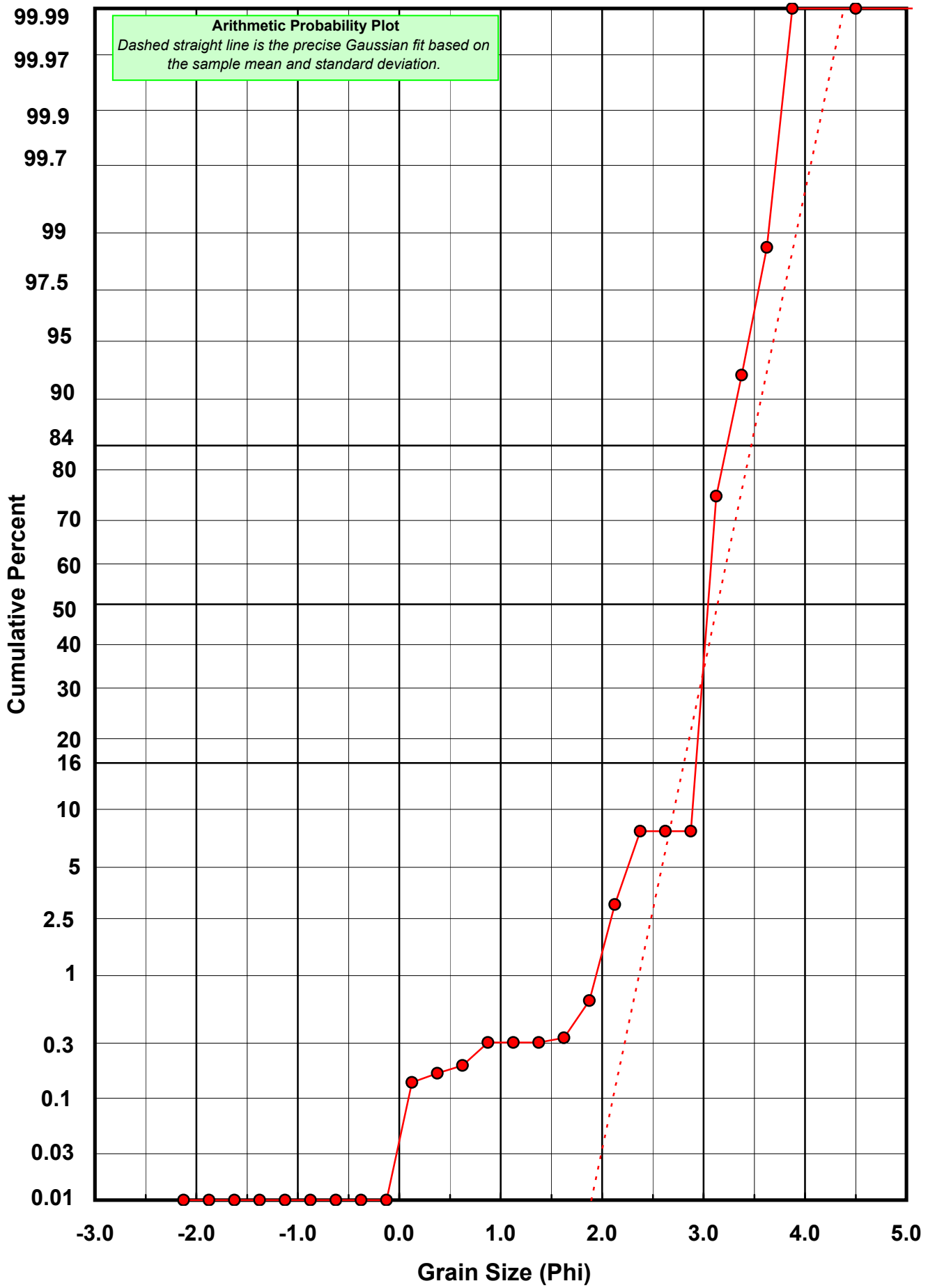
Statistical Results			
Mean:	3.1383	phi	(0.1136 mm)
Standard Dev:	0.3340	phi-units	(0.7933 mm)
Skewness:	-2.6555	dimensionless	
Kurtosis:	18.2855	dimensionless	
5th Moment:	-125.9092	dimensionless	
6th Moment:	1022.9883	dimensionless	
RARD *	0.1064	dimensionless	
Median	3.0324	phi	(0.1222 mm)

* 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 Calculation Sheets	
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)





Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-35-MB

Total Digested Mass: 51.802 grams

% Silica: 98.0 %

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	0.000	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	0.003	0.006	0.006
0.75	0.625	0.000	0.000	0.006
1.00	0.875	0.004	0.008	0.014
1.25	1.125	0.006	0.012	0.025
1.50	1.375	0.001	0.002	0.027
1.75	1.625	0.003	0.006	0.033
2.00	1.875	0.015	0.029	0.062
2.25	2.125	0.161	0.311	0.373
2.50	2.375	2.274	4.390	4.762
2.75	2.625	14.880	28.725	33.487
3.00	2.875	22.376	43.195	76.682
3.25	3.125	9.797	18.912	95.595
3.50	3.375	2.007	3.874	99.469
3.75	3.625	0.224	0.432	99.902
4.00	3.875	0.051	0.098	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.8489	phi	(0.1388 mm)
Standard Dev:	0.2397	phi-units	(0.8469 mm)
Skewness:	0.0844	dimensionless	
Kurtosis:	4.7421	dimensionless	
5th Moment:	-9.8067	dimensionless	
6th Moment:	136.9614	dimensionless	
RARD *	0.0842	dimensionless	
Median	2.7206	phi	(0.1517 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 Calculation Sheets	
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)

