

Onshore Grab Sample

Sample: SJ-43-MB
Sample Taken By: J. Ladner
Sample Collected On: 12/2/03
Splits? N/A

County: St. Johns
Latitude: 29° 40' 57.1"
Longitude: 81° 13' 3.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 54.115 grams
Total Fines in Sample 0.343 grams
Total Percent Fines 0.63 %

Dry Sieving Summary

Total Sample Weight 53.801 grams
Total Digested Weight 53.078 grams
Total Carbonate Weight 0.723 grams
Total Silica % 98.66 %
Total Carbonate % 1.34 %
Carbonate/Silica Ratio 0.014

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-43-MB

Total Sample Mass: 53.801 grams

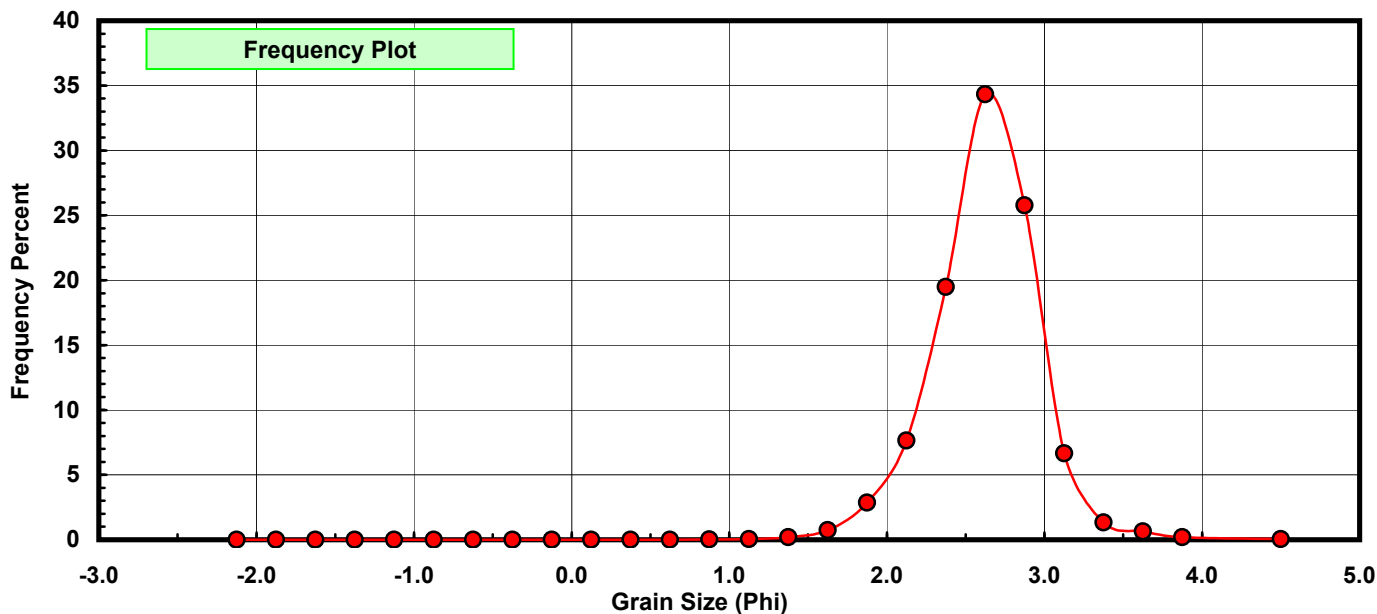
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.003	0.006	0.006
0.25	0.125	0.004	0.007	0.013
0.50	0.375	0.005	0.009	0.022
0.75	0.625	0.003	0.006	0.028
1.00	0.875	0.014	0.026	0.054
1.25	1.125	0.027	0.050	0.104
1.50	1.375	0.101	0.188	0.292
1.75	1.625	0.398	0.740	1.032
2.00	1.875	1.541	2.864	3.896
2.25	2.125	4.115	7.649	11.544
2.50	2.375	10.483	19.485	31.029
2.75	2.625	18.467	34.325	65.354
3.00	2.875	13.867	25.775	91.128
3.25	3.125	3.577	6.649	97.777
3.50	3.375	0.722	1.342	99.119
3.75	3.625	0.347	0.645	99.764
4.00	3.875	0.104	0.193	99.957
5.00	4.500	0.023	0.043	100.000

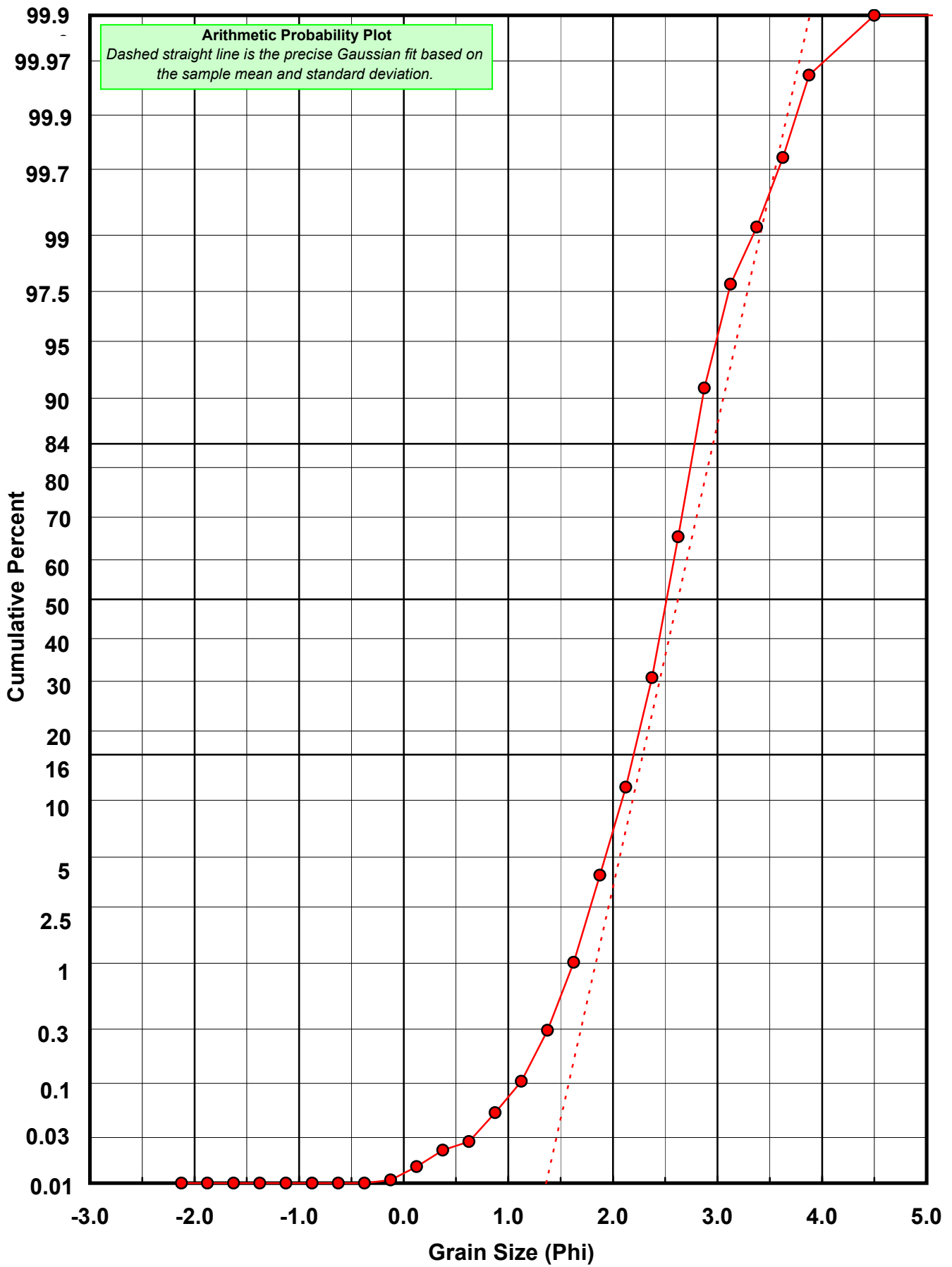
Statistical Results			
Mean:	2.6224	phi	(0.1624 mm)
Standard Dev:	0.3386	phi-units	(0.7908 mm)
Skewness:	-0.2819	dimensionless	
Kurtosis:	5.1710	dimensionless	
5th Moment:	-5.7519	dimensionless	
6th Moment:	86.2456	dimensionless	
RARD *	0.1291	dimensionless	
Median	2.5132	phi	(0.1752 mm)

* 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-43-MB

Total Carbonate Mass: 1.677 grams

% Carbonate: 1.3 %

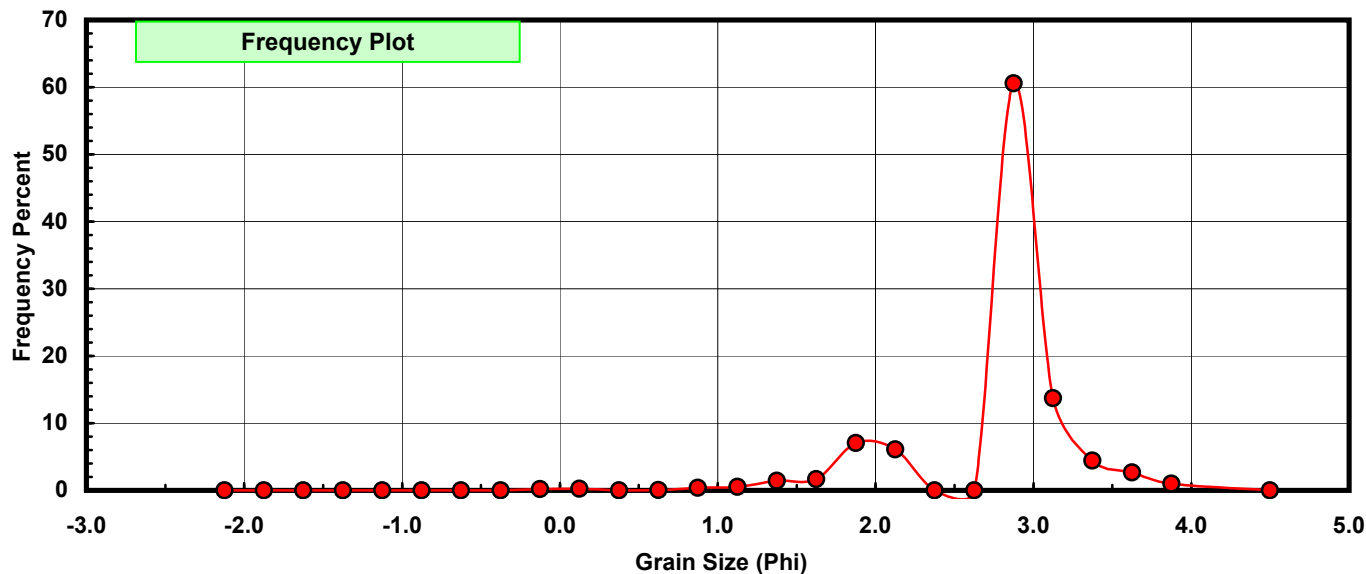
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.003	0.179	0.179
0.25	0.125	0.004	0.239	0.417
0.50	0.375	0.000	0.000	0.417
0.75	0.625	0.001	0.060	0.477
1.00	0.875	0.006	0.358	0.835
1.25	1.125	0.009	0.537	1.371
1.50	1.375	0.024	1.431	2.803
1.75	1.625	0.028	1.670	4.472
2.00	1.875	0.118	7.036	11.509
2.25	2.125	0.102	6.082	17.591
2.50	2.375	0.000	0.000	17.591
2.75	2.625	0.000	0.000	17.591
3.00	2.875	1.016	60.584	78.175
3.25	3.125	0.230	13.715	91.890
3.50	3.375	0.074	4.413	96.303
3.75	3.625	0.045	2.683	98.986
4.00	3.875	0.017	1.014	100.000
5.00	4.500	0.000	0.000	100.000

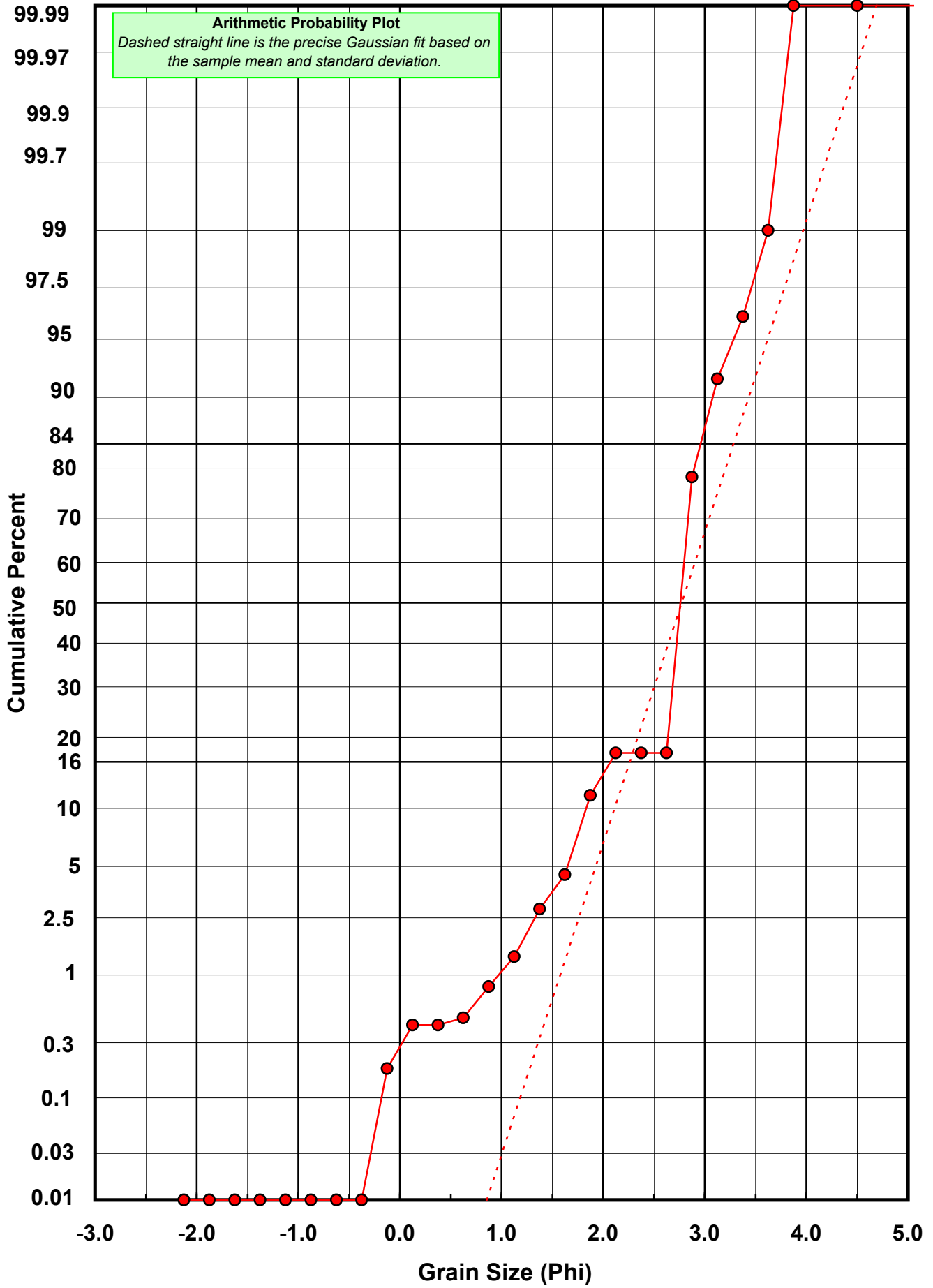
Statistical Results			
Mean:	2.7735	phi	(0.1463 mm)
Standard Dev:	0.5151	phi-units	(0.6998 mm)
Skewness:	-1.6689	dimensionless	
Kurtosis:	7.3853	dimensionless	
5th Moment:	-27.1176	dimensionless	
6th Moment:	130.4285	dimensionless	
RARD *	0.1857	dimensionless	
Median	2.7587	phi	(0.1478 mm)

* 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-43-MB

Total Digested Mass: 53.058 grams

% Silica: 98.7 %

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	0.005	0.009	0.009
0.75	0.625	0.002	0.004	0.013
1.00	0.875	0.008	0.015	0.028
1.25	1.125	0.018	0.034	0.062
1.50	1.375	0.077	0.145	0.207
1.75	1.625	0.370	0.697	0.905
2.00	1.875	1.423	2.682	3.587
2.25	2.125	4.013	7.563	11.150
2.50	2.375	10.637	20.048	31.198
2.75	2.625	19.270	36.319	67.517
3.00	2.875	12.851	24.221	91.737
3.25	3.125	3.347	6.308	98.046
3.50	3.375	0.648	1.221	99.267
3.75	3.625	0.302	0.569	99.836
4.00	3.875	0.087	0.164	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6161	phi	(0.1631 mm)
Standard Dev:	0.3249	phi-units	(0.7984 mm)
Skewness:	-0.2542	dimensionless	
Kurtosis:	4.4596	dimensionless	
5th Moment:	-3.9517	dimensionless	
6th Moment:	48.2669	dimensionless	
RARD *	0.1242	dimensionless	
Median	2.5044	phi	(0.1762 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)

