

Onshore Grab Sample

Sample: SJ-32-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 49' 16.9"
Longitude: 81° 15' 44.9"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 69.721 grams
Total Fines in Sample 0.581 grams
Total Percent Fines 0.83 %

Dry Sieving Summary

Total Sample Weight 68.984 grams
Total Digested Weight 67.908 grams
Total Carbonate Weight 1.076 grams
Total Silica % 98.44 %
Total Carbonate % 1.56 %
Carbonate/Silica Ratio 0.016

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-32-SS

Total Sample Mass: 68.984 grams

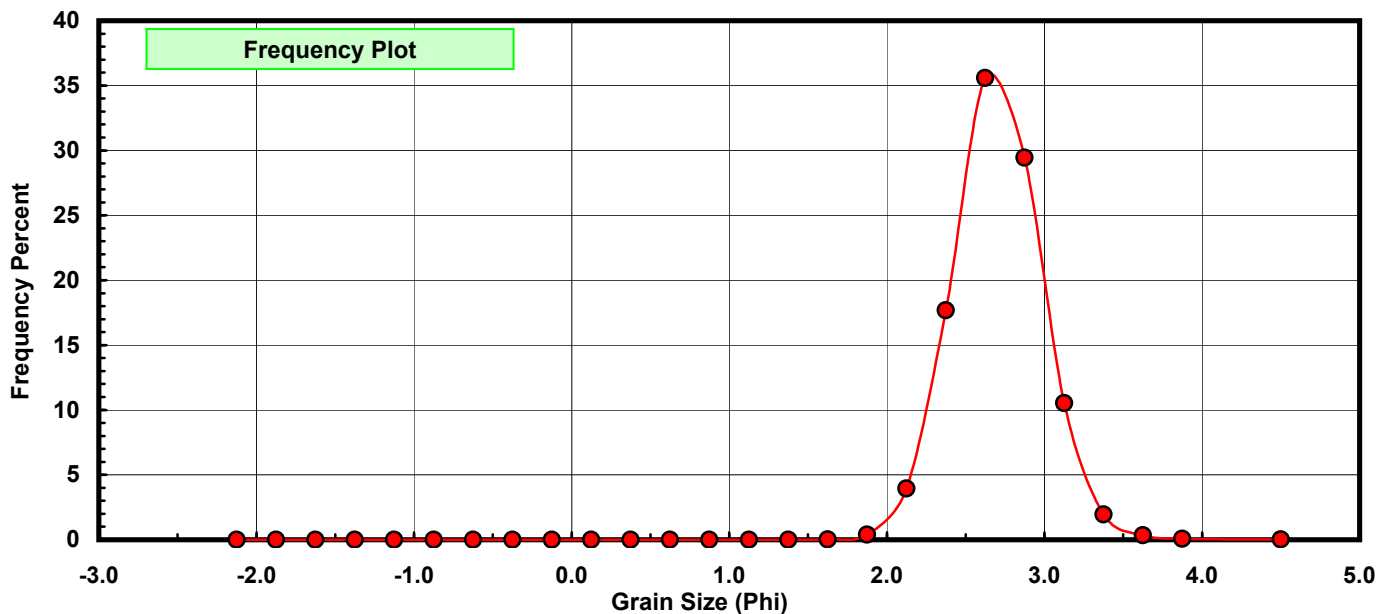
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.002	0.003	0.003
0.50	0.375	0.005	0.007	0.010
0.75	0.625	0.003	0.004	0.014
1.00	0.875	0.004	0.006	0.020
1.25	1.125	0.007	0.010	0.030
1.50	1.375	0.004	0.006	0.036
1.75	1.625	0.020	0.029	0.065
2.00	1.875	0.272	0.394	0.460
2.25	2.125	2.718	3.940	4.400
2.50	2.375	12.206	17.694	22.094
2.75	2.625	24.542	35.576	57.670
3.00	2.875	20.311	29.443	87.113
3.25	3.125	7.261	10.526	97.639
3.50	3.375	1.337	1.938	99.577
3.75	3.625	0.235	0.341	99.917
4.00	3.875	0.044	0.064	99.981
5.00	4.500	0.013	0.019	100.000

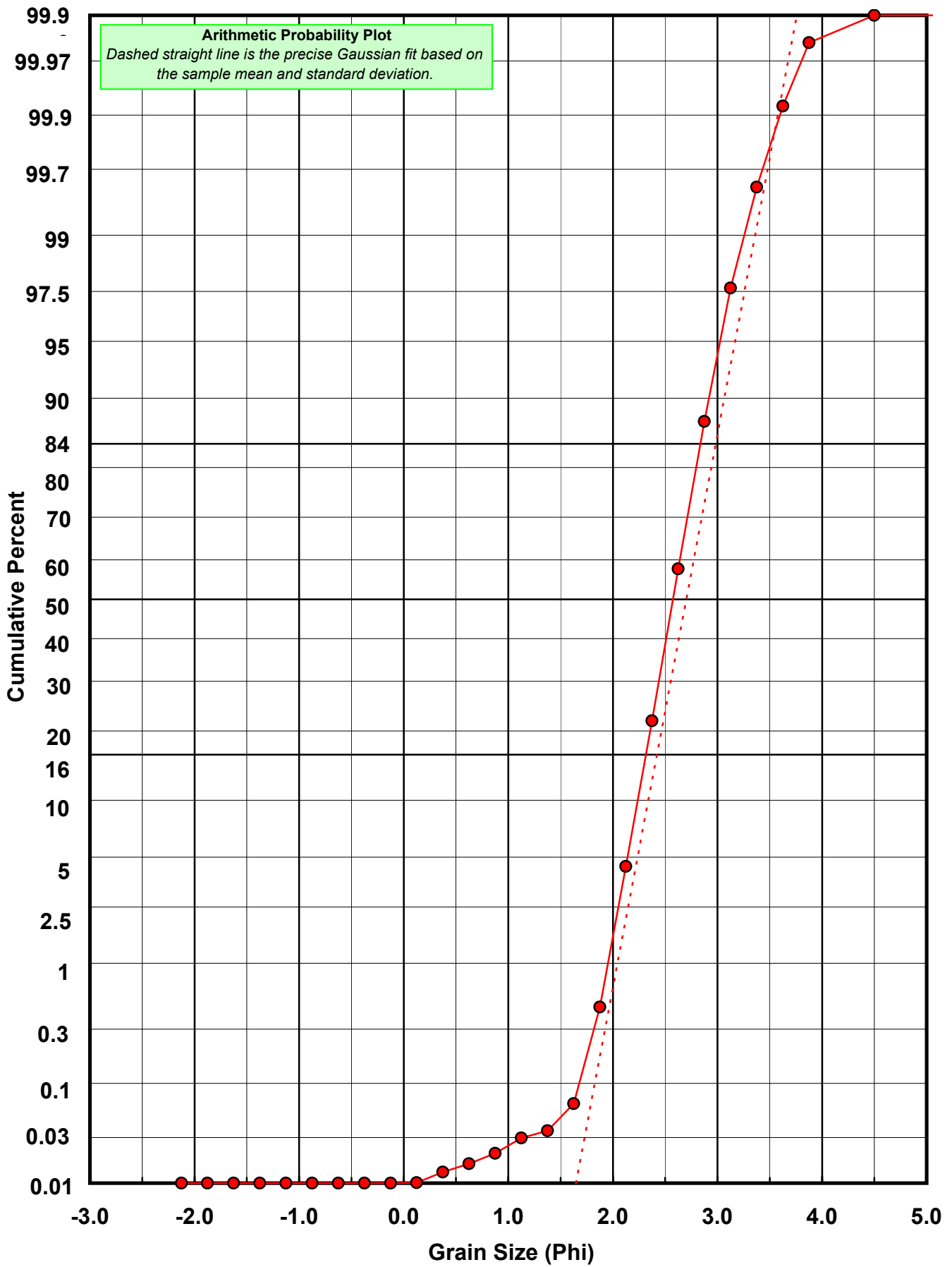
Statistical Results			
Mean:	2.7025	phi	(0.1536 mm)
Standard Dev:	0.2837	phi-units	(0.8215 mm)
Skewness:	0.0394	dimensionless	
Kurtosis:	4.3178	dimensionless	
5th Moment:	-3.3907	dimensionless	
6th Moment:	84.6266	dimensionless	
RARD *	0.1050	dimensionless	
Median	2.5711	phi	(0.1683 mm)

* 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-32-SS

Total Carbonate Mass: 2.457 grams

% Carbonate: 1.6 %

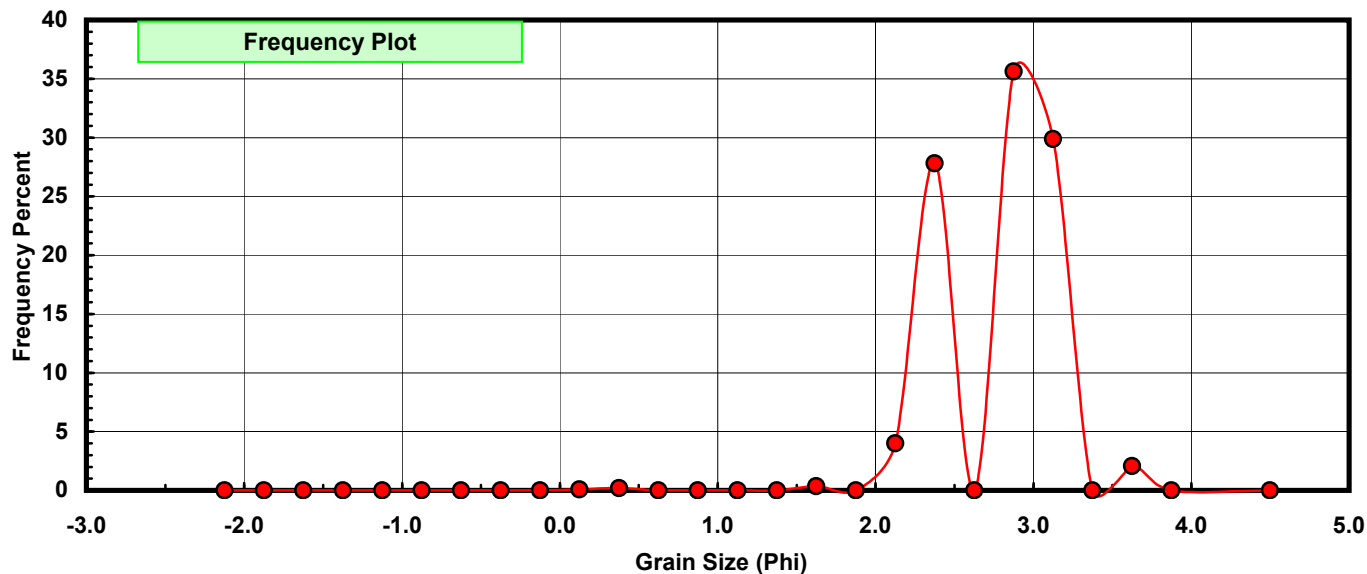
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.002	0.081	0.081
0.50	0.375	0.005	0.204	0.285
0.75	0.625	0.000	0.000	0.285
1.00	0.875	0.000	0.000	0.285
1.25	1.125	0.000	0.000	0.285
1.50	1.375	0.000	0.000	0.285
1.75	1.625	0.009	0.366	0.651
2.00	1.875	0.000	0.000	0.651
2.25	2.125	0.098	3.989	4.640
2.50	2.375	0.683	27.798	32.438
2.75	2.625	0.000	0.000	32.438
3.00	2.875	0.875	35.613	68.050
3.25	3.125	0.734	29.874	97.924
3.50	3.375	0.000	0.000	97.924
3.75	3.625	0.051	2.076	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

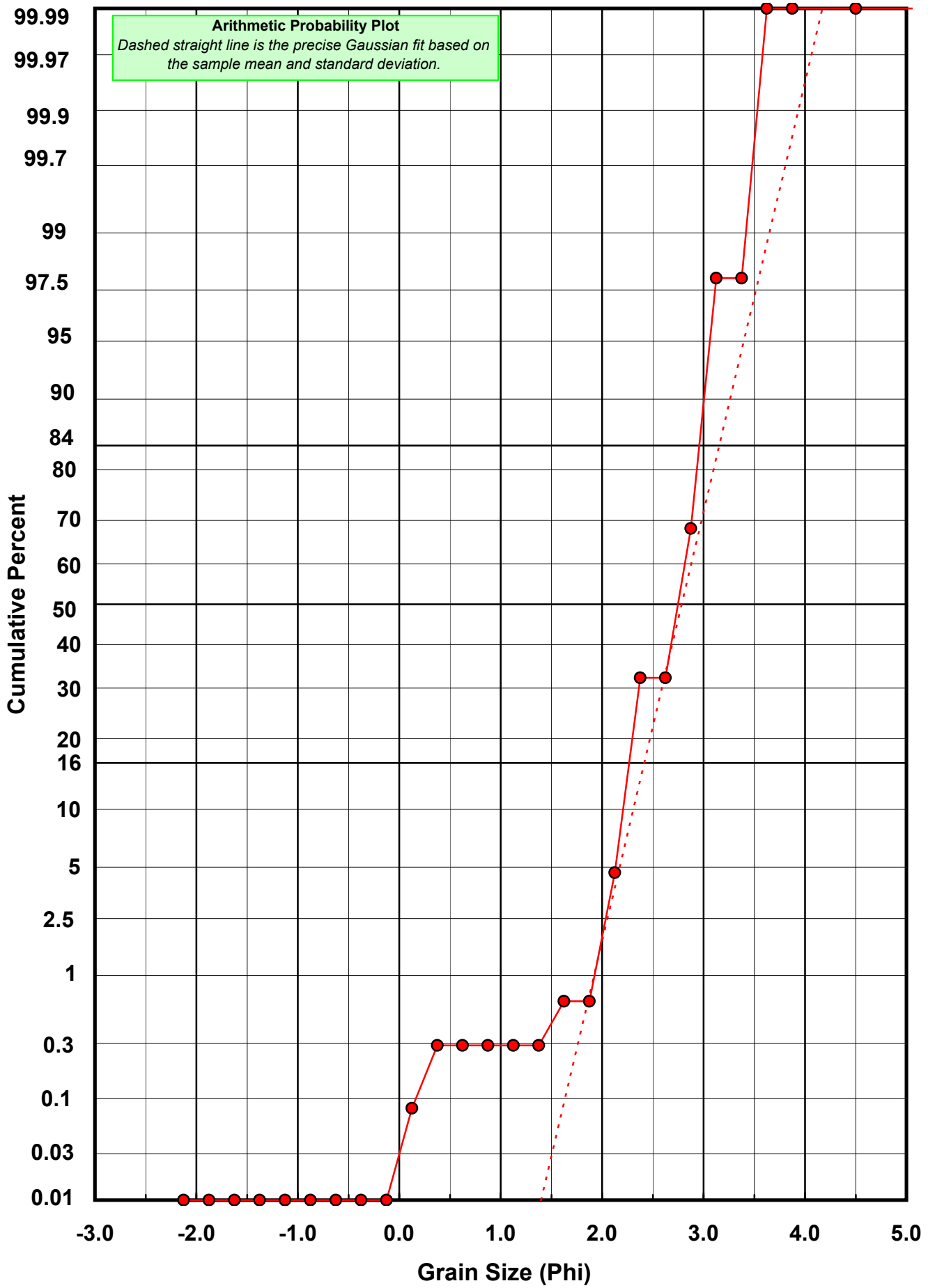
Statistical Results			
Mean:	2.7844	phi	(0.1451 mm)
Standard Dev:	0.3724	phi-units	(0.7725 mm)
Skewness:	-1.0769	dimensionless	
Kurtosis:	7.5754	dimensionless	
5th Moment:	-39.0016	dimensionless	
6th Moment:	265.2655	dimensionless	
RARD *	0.1337	dimensionless	
Median	2.7483	phi	(0.1488 mm)

* 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-32-SS

Total Digested Mass: 67.897 grams

% Silica: 98.4 %

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	0.000	0.000	0.000
0.75	0.625	0.007	0.010	0.010
1.00	0.875	0.005	0.007	0.018
1.25	1.125	0.008	0.012	0.029
1.50	1.375	0.004	0.006	0.035
1.75	1.625	0.011	0.016	0.052
2.00	1.875	0.288	0.424	0.476
2.25	2.125	2.620	3.859	4.335
2.50	2.375	11.523	16.971	21.306
2.75	2.625	25.898	38.143	59.449
3.00	2.875	19.436	28.626	88.075
3.25	3.125	6.527	9.613	97.688
3.50	3.375	1.342	1.977	99.664
3.75	3.625	0.184	0.271	99.935
4.00	3.875	0.044	0.065	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6973	phi	(0.1542 mm)
Standard Dev:	0.2765	phi-units	(0.8256 mm)
Skewness:	0.0442	dimensionless	
Kurtosis:	3.9367	dimensionless	
5th Moment:	-2.5086	dimensionless	
6th Moment:	50.0275	dimensionless	
RARD *	0.1025	dimensionless	
Median	2.5631	phi	(0.1692 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)

