

Onshore Grab Sample

Sample: SJ-23-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: St. Johns
Latitude: 29° 56' 55.8"
Longitude: 81° 18' 9.5"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 84.395 grams
Total Fines in Sample 0.808 grams
Total Percent Fines 0.95 %

Dry Sieving Summary

Total Sample Weight 83.546 grams
Total Digested Weight 67.092 grams
Total Carbonate Weight 16.454 grams
Total Silica % 80.31 %
Total Carbonate % 19.69 %
Carbonate/Silica Ratio 0.245

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-23-SS

Total Sample Mass: 83.546 grams

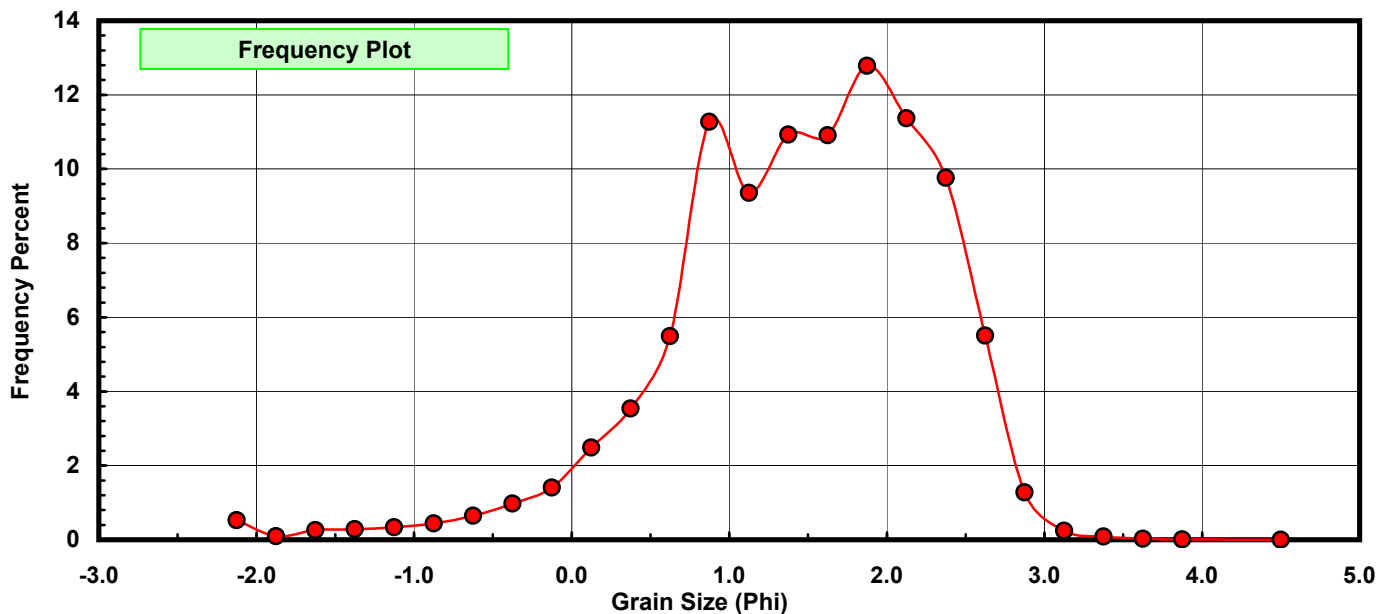
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.438	0.524	0.524
-1.75	-1.875	0.076	0.091	0.615
-1.50	-1.625	0.216	0.259	0.874
-1.25	-1.375	0.241	0.288	1.162
-1.00	-1.125	0.284	0.340	1.502
-0.75	-0.875	0.368	0.440	1.943
-0.50	-0.625	0.543	0.650	2.593
-0.25	-0.375	0.815	0.976	3.568
0.00	-0.125	1.173	1.404	4.972
0.25	0.125	2.075	2.484	7.456
0.50	0.375	2.955	3.537	10.993
0.75	0.625	4.587	5.490	16.483
1.00	0.875	9.420	11.275	27.758
1.25	1.125	7.816	9.355	37.114
1.50	1.375	9.129	10.927	48.041
1.75	1.625	9.112	10.907	58.947
2.00	1.875	10.678	12.781	71.728
2.25	2.125	9.499	11.370	83.098
2.50	2.375	8.154	9.760	92.858
2.75	2.625	4.598	5.504	98.361
3.00	2.875	1.070	1.281	99.642
3.25	3.125	0.199	0.238	99.880
3.50	3.375	0.071	0.085	99.965
3.75	3.625	0.024	0.029	99.994
4.00	3.875	0.004	0.005	99.999
5.00	4.500	0.001	0.001	100.000

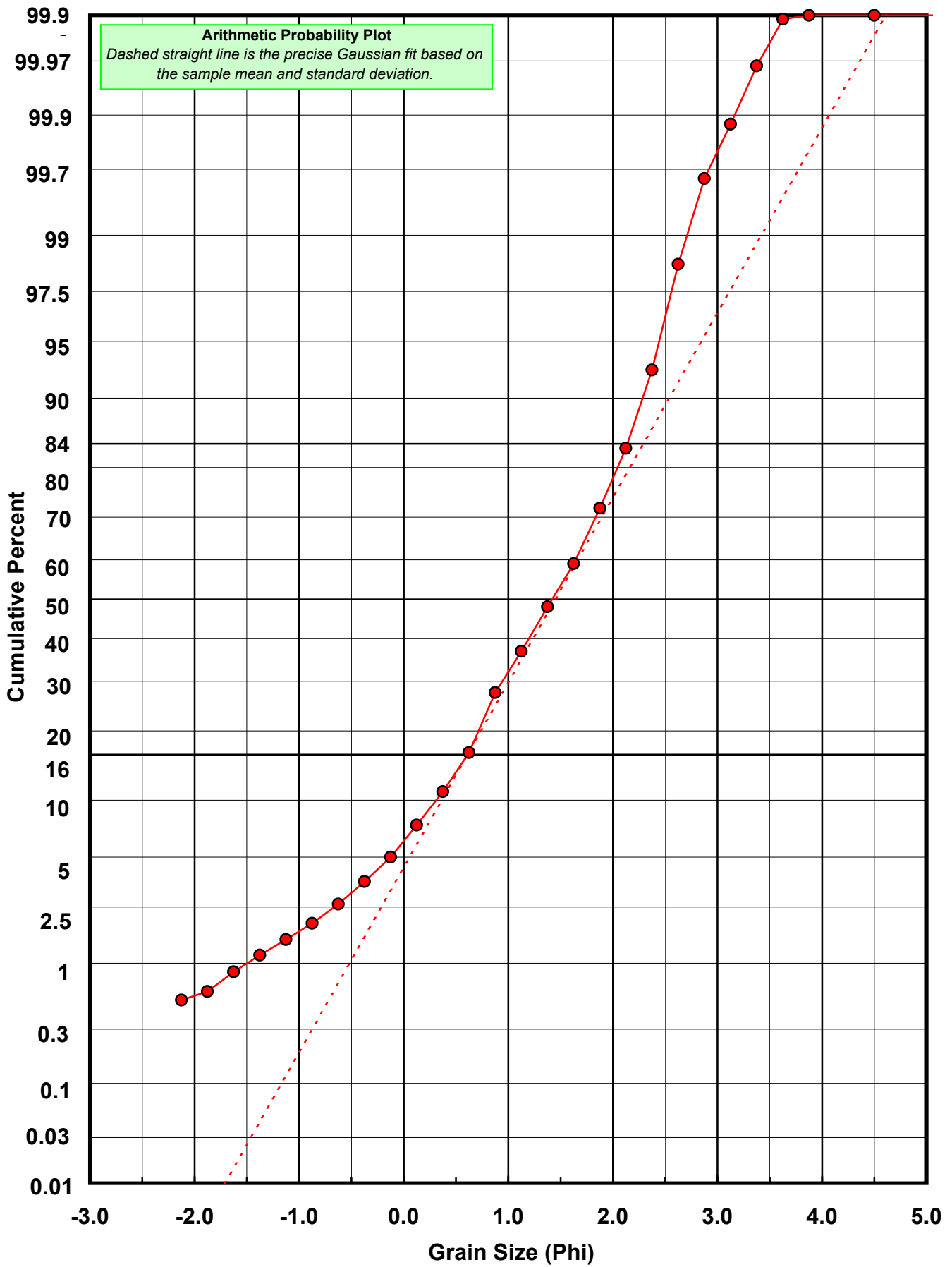
Statistical Results			
Mean:	1.4498	phi	(0.3661 mm)
Standard Dev:	0.8484	phi-units	(0.5554 mm)
Skewness:	-0.9705	dimensionless	
Kurtosis:	4.7566	dimensionless	
5th Moment:	-13.2422	dimensionless	
6th Moment:	52.3422	dimensionless	
RARD *	0.5852	dimensionless	
Median	1.4199	phi	(0.3737 mm)

* 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-23-SS

Total Carbonate Mass: 16.637 grams

% Carbonate: 19.7 %

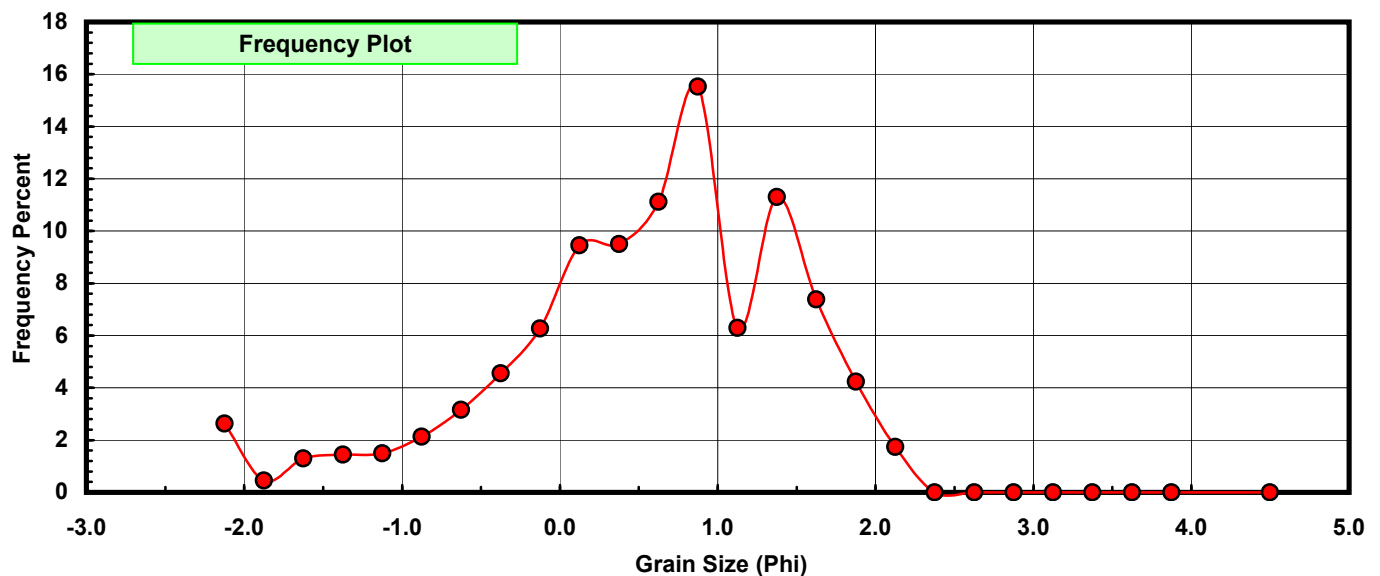
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.438	2.633	2.633
-1.75	-1.875	0.076	0.457	3.089
-1.50	-1.625	0.216	1.298	4.388
-1.25	-1.375	0.241	1.449	5.836
-1.00	-1.125	0.248	1.491	7.327
-0.75	-0.875	0.354	2.128	9.455
-0.50	-0.625	0.526	3.162	12.616
-0.25	-0.375	0.758	4.556	17.173
0.00	-0.125	1.044	6.275	23.448
0.25	0.125	1.572	9.449	32.897
0.50	0.375	1.581	9.503	42.399
0.75	0.625	1.849	11.114	53.513
1.00	0.875	2.584	15.532	69.045
1.25	1.125	1.047	6.293	75.338
1.50	1.375	1.880	11.300	86.638
1.75	1.625	1.229	7.387	94.025
2.00	1.875	0.705	4.238	98.263
2.25	2.125	0.289	1.737	100.000
2.50	2.375	0.000	0.000	100.000
2.75	2.625	0.000	0.000	100.000
3.00	2.875	0.000	0.000	100.000
3.25	3.125	0.000	0.000	100.000
3.50	3.375	0.000	0.000	100.000
3.75	3.625	0.000	0.000	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

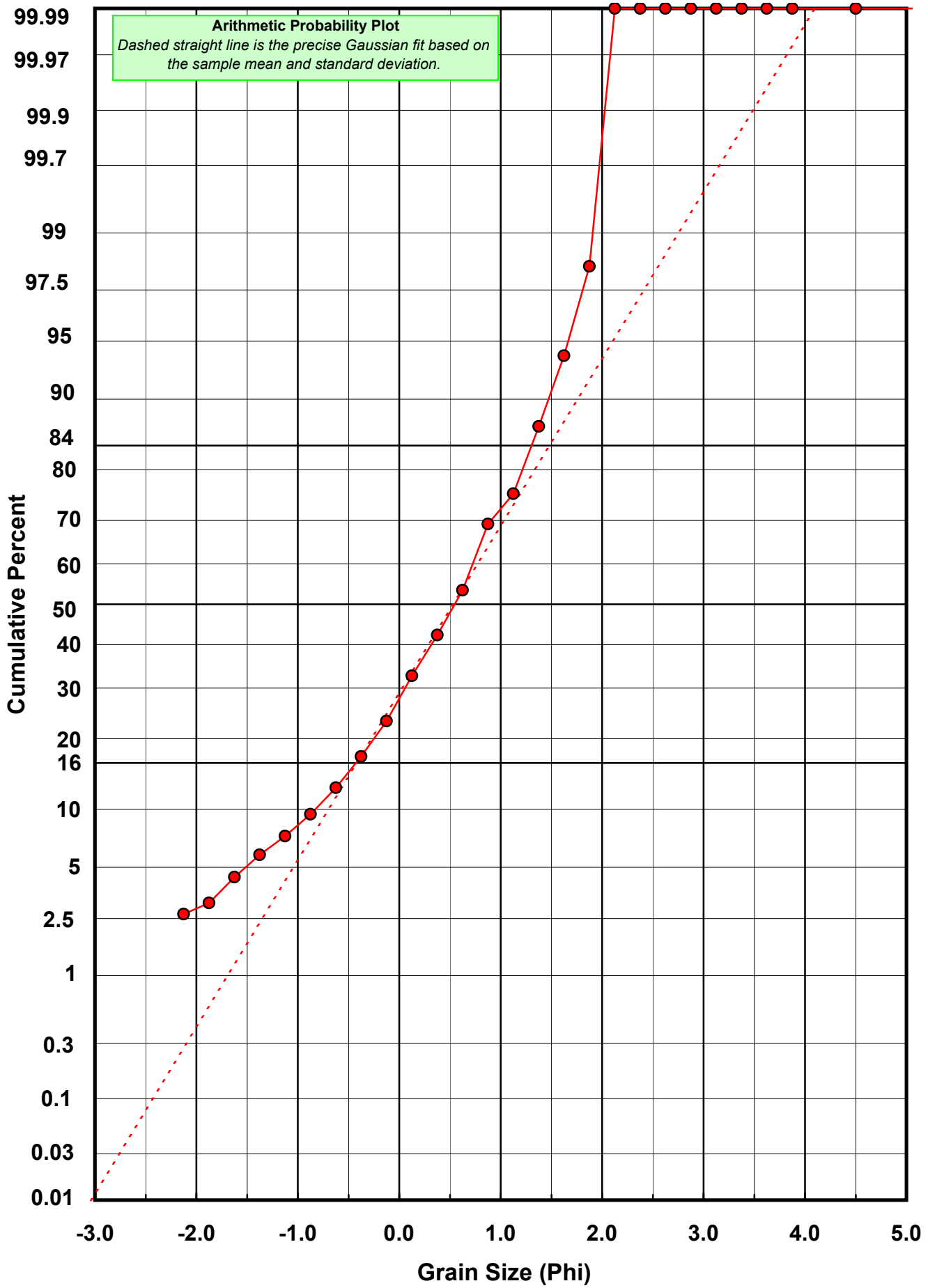
Statistical Results			
Mean:	0.5298	phi	(0.6927 mm)
Standard Dev:	0.9587	phi-units	(0.5145 mm)
Skewness:	-0.7978	dimensionless	
Kurtosis:	3.3408	dimensionless	
5th Moment:	-6.1385	dimensionless	
6th Moment:	18.3350	dimensionless	
RARD *	1.8095	dimensionless	
Median	0.5460	phi	(0.6849 mm)

* 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-23-SS

Total Digested Mass: 67.091 grams

% Silica: 80.3 %

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	0.036	0.054	0.054
-0.75	-0.875	0.014	0.021	0.075
-0.50	-0.625	0.017	0.025	0.100
-0.25	-0.375	0.057	0.085	0.185
0.00	-0.125	0.129	0.192	0.377
0.25	0.125	0.503	0.750	1.127
0.50	0.375	1.374	2.048	3.175
0.75	0.625	2.738	4.081	7.256
1.00	0.875	6.836	10.189	17.445
1.25	1.125	6.769	10.089	27.534
1.50	1.375	7.249	10.805	38.339
1.75	1.625	7.883	11.750	50.089
2.00	1.875	9.973	14.865	64.954
2.25	2.125	9.210	13.728	78.681
2.50	2.375	8.244	12.288	90.969
2.75	2.625	4.630	6.901	97.870
3.00	2.875	1.117	1.665	99.535
3.25	3.125	0.209	0.312	99.846
3.50	3.375	0.074	0.110	99.957
3.75	3.625	0.025	0.037	99.994
4.00	3.875	0.004	0.006	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.6811	phi	(0.3118 mm)
Standard Dev:	0.6465	phi-units	(0.6388 mm)
Skewness:	-0.2793	dimensionless	
Kurtosis:	2.5858	dimensionless	
5th Moment:	-2.5035	dimensionless	
6th Moment:	13.5993	dimensionless	
RARD *	0.3845	dimensionless	
Median	1.6231	phi	(0.3246 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
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> 1.33	Poor homogeneity (e.g., glacial)

