

Onshore Grab Sample

Sample: SJ-17-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/2/03
Splits? N/A

County: St. Johns
Latitude: 30° 01' 54.9"
Longitude: 81° 19' 30.0"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	74.591 grams
Total Fines in Sample	0.629 grams
Total Percent Fines	0.84 %

Dry Sieving Summary

Total Sample Weight	73.986 grams
Total Digested Weight	49.660 grams
Total Carbonate Weight	24.326 grams
Total Silica %	67.12 %
Total Carbonate %	32.88 %
Carbonate/Silica Ratio	0.490

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-17-SS

Total Sample Mass: 73.986 grams

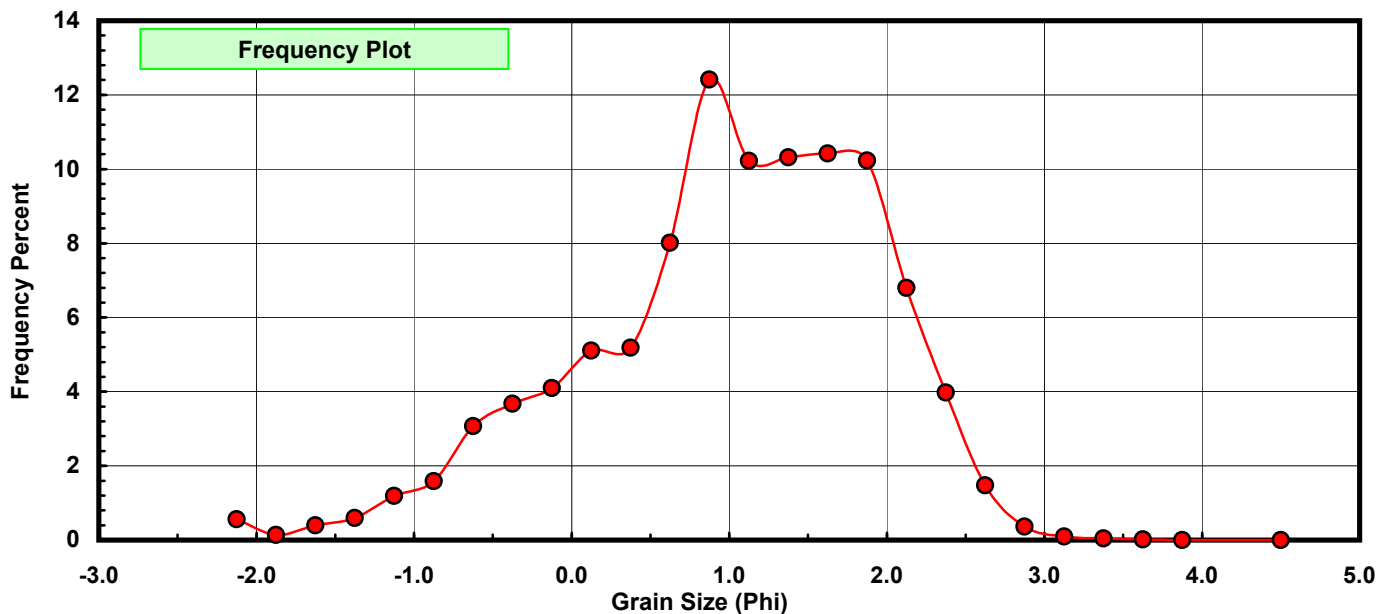
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.416	0.562	0.562
-1.75	-1.875	0.102	0.138	0.700
-1.50	-1.625	0.293	0.396	1.096
-1.25	-1.375	0.438	0.592	1.688
-1.00	-1.125	0.881	1.191	2.879
-0.75	-0.875	1.175	1.588	4.467
-0.50	-0.625	2.274	3.074	7.541
-0.25	-0.375	2.721	3.678	11.218
0.00	-0.125	3.032	4.098	15.316
0.25	0.125	3.780	5.109	20.425
0.50	0.375	3.838	5.187	25.613
0.75	0.625	5.932	8.018	33.631
1.00	0.875	9.183	12.412	46.042
1.25	1.125	7.564	10.224	56.266
1.50	1.375	7.631	10.314	66.580
1.75	1.625	7.711	10.422	77.002
2.00	1.875	7.566	10.226	87.229
2.25	2.125	5.030	6.799	94.027
2.50	2.375	2.940	3.974	98.001
2.75	2.625	1.092	1.476	99.477
3.00	2.875	0.268	0.362	99.839
3.25	3.125	0.073	0.099	99.938
3.50	3.375	0.030	0.041	99.978
3.75	3.625	0.012	0.016	99.995
4.00	3.875	0.003	0.004	99.999
5.00	4.500	0.001	0.001	100.000

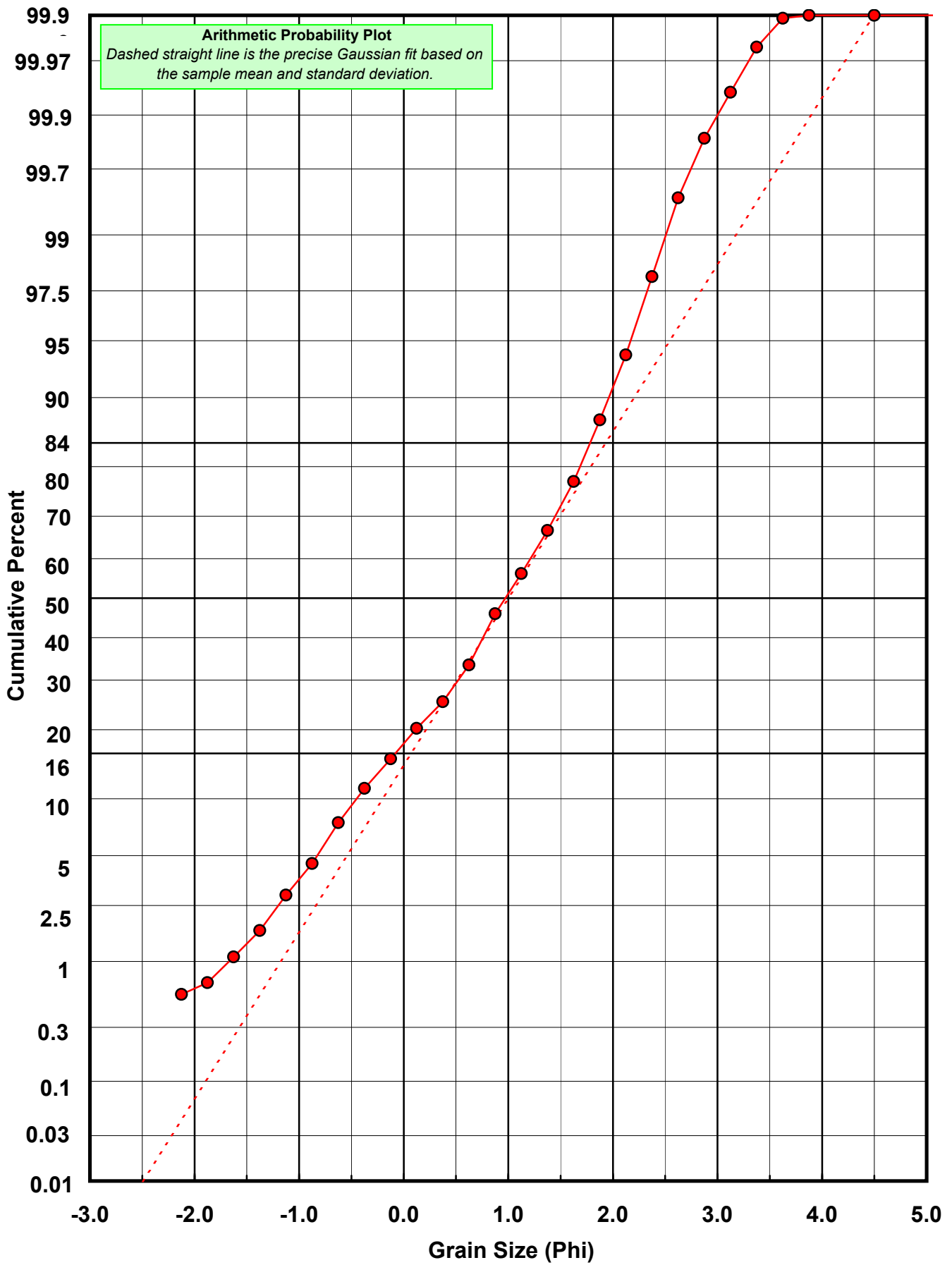
Statistical Results			
Mean:	1.0012	phi	(0.4996 mm)
Standard Dev:	0.9381	phi-units	(0.5219 mm)
Skewness:	-0.6243	dimensionless	
Kurtosis:	3.1697	dimensionless	
5th Moment:	-5.1354	dimensionless	
6th Moment:	18.2421	dimensionless	
RARD *	0.9369	dimensionless	
Median	0.9718	phi	(0.5099 mm)

* 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-17-SS

Total Carbonate Mass: 24.520 grams

% Carbonate: 32.9 %

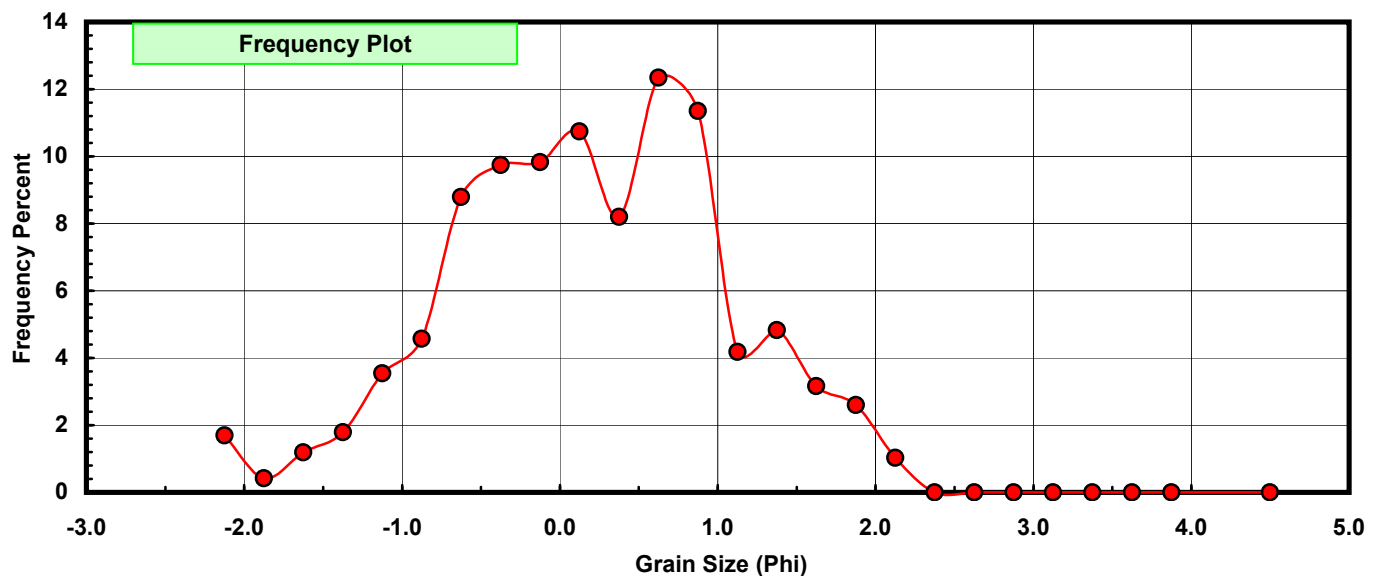
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.416	1.697	1.697
-1.75	-1.875	0.102	0.416	2.113
-1.50	-1.625	0.293	1.195	3.308
-1.25	-1.375	0.438	1.786	5.094
-1.00	-1.125	0.868	3.540	8.634
-0.75	-0.875	1.120	4.568	13.201
-0.50	-0.625	2.155	8.789	21.990
-0.25	-0.375	2.390	9.747	31.737
0.00	-0.125	2.410	9.829	41.566
0.25	0.125	2.633	10.738	52.304
0.50	0.375	2.011	8.201	60.506
0.75	0.625	3.027	12.345	72.851
1.00	0.875	2.784	11.354	84.205
1.25	1.125	1.025	4.180	88.385
1.50	1.375	1.183	4.825	93.210
1.75	1.625	0.776	3.165	96.374
2.00	1.875	0.637	2.598	98.972
2.25	2.125	0.252	1.028	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

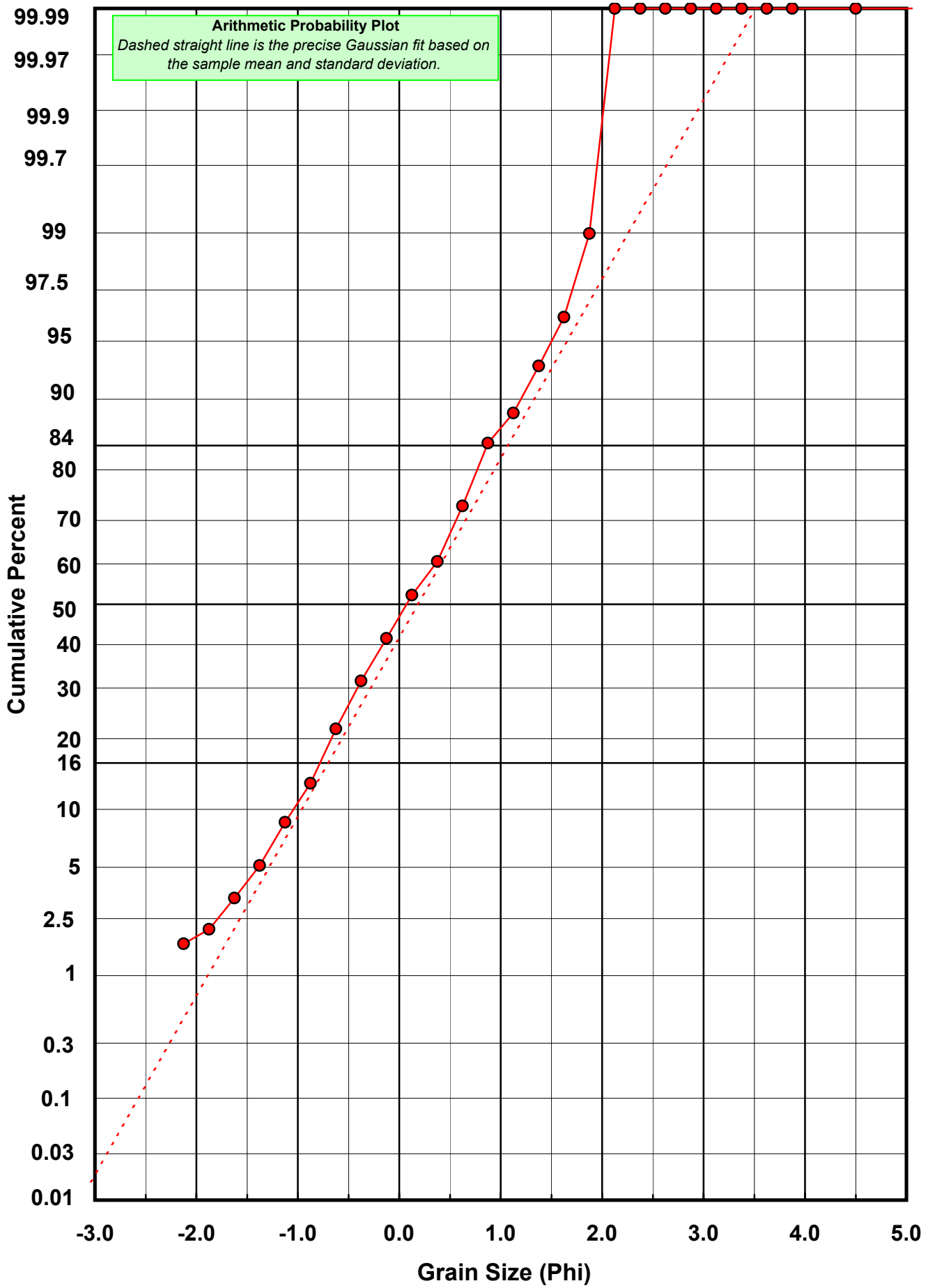
Statistical Results			
Mean:	0.1846	phi	(0.8799 mm)
Standard Dev:	0.8934	phi-units	(0.5383 mm)
Skewness:	-0.1824	dimensionless	
Kurtosis:	2.7092	dimensionless	
5th Moment:	-1.6416	dimensionless	
6th Moment:	11.1886	dimensionless	
RARD *	4.8387	dimensionless	
Median	0.0714	phi	(0.9517 mm)

* 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-17-SS

Total Digested Mass: 49.653 grams

% Silica: 67.1 %

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	0.013	0.026	0.026
-0.75	-0.875	0.055	0.111	0.137
-0.50	-0.625	0.119	0.240	0.377
-0.25	-0.375	0.331	0.667	1.043
0.00	-0.125	0.622	1.253	2.296
0.25	0.125	1.147	2.310	4.606
0.50	0.375	1.827	3.680	8.286
0.75	0.625	2.905	5.851	14.136
1.00	0.875	6.399	12.887	27.024
1.25	1.125	6.539	13.169	40.193
1.50	1.375	6.448	12.986	53.179
1.75	1.625	6.935	13.967	67.146
2.00	1.875	6.929	13.955	81.101
2.25	2.125	4.778	9.623	90.724
2.50	2.375	3.051	6.145	96.868
2.75	2.625	1.137	2.290	99.158
3.00	2.875	0.269	0.542	99.700
3.25	3.125	0.078	0.157	99.857
3.50	3.375	0.040	0.081	99.938
3.75	3.625	0.022	0.044	99.982
4.00	3.875	0.009	0.018	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.4106	phi	(0.3762 mm)
Standard Dev:	0.6617	phi-units	(0.6321 mm)
Skewness:	-0.2714	dimensionless	
Kurtosis:	2.9893	dimensionless	
5th Moment:	-2.4177	dimensionless	
6th Moment:	15.9849	dimensionless	
RARD *	0.4691	dimensionless	
Median	1.3138	phi	(0.4023 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)
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