

Onshore Grab Sample

Sample: SJ-44-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/2/03
Splits? N/A

County: St. Johns
Latitude: 29° 40' 19.5"
Longitude: 81° 12' 49.0"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 122.907 grams
Total Fines in Sample 1.337 grams
Total Percent Fines 1.08 %

Dry Sieving Summary

Total Sample Weight 121.642 grams
Total Digested Weight 98.612 grams
Total Carbonate Weight 23.030 grams
Total Silica % 81.07 %
Total Carbonate % 18.93 %
Carbonate/Silica Ratio 0.234

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-44-SS

Total Sample Mass: 121.642 grams

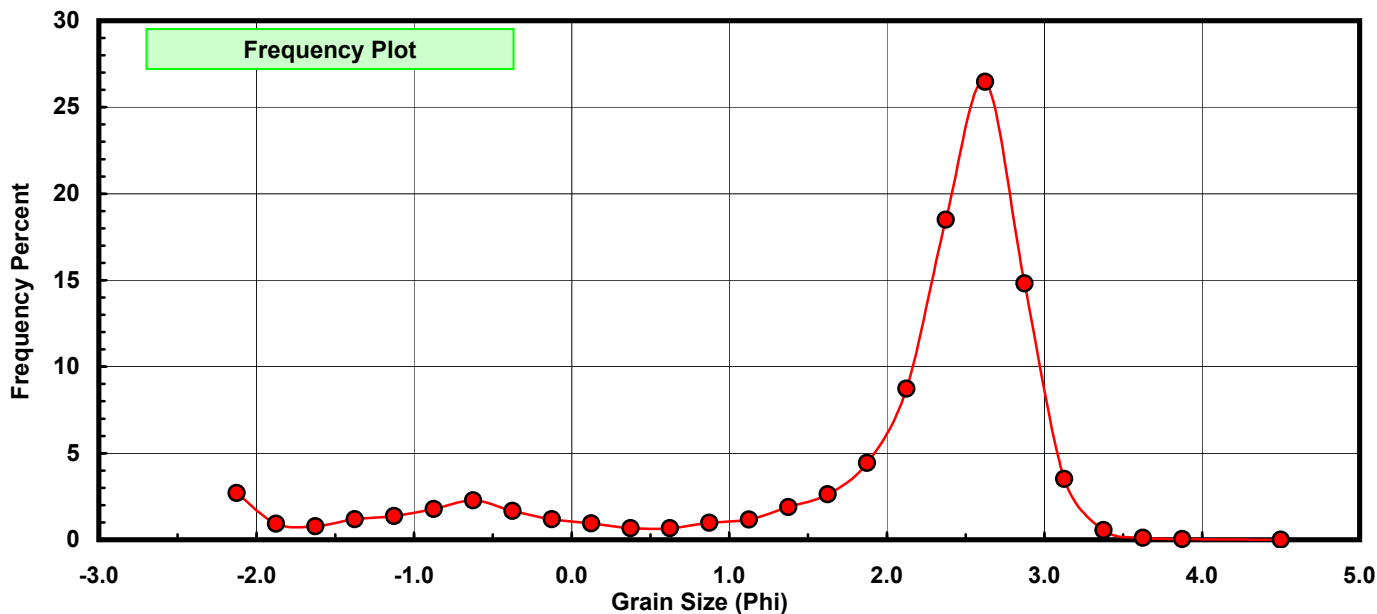
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	3.290	2.705	2.705
-1.75	-1.875	1.118	0.919	3.624
-1.50	-1.625	0.937	0.770	4.394
-1.25	-1.375	1.447	1.190	5.584
-1.00	-1.125	1.654	1.360	6.943
-0.75	-0.875	2.170	1.784	8.727
-0.50	-0.625	2.775	2.281	11.009
-0.25	-0.375	2.015	1.657	12.665
0.00	-0.125	1.436	1.181	13.846
0.25	0.125	1.158	0.952	14.798
0.50	0.375	0.817	0.672	15.469
0.75	0.625	0.813	0.668	16.138
1.00	0.875	1.199	0.986	17.123
1.25	1.125	1.426	1.172	18.295
1.50	1.375	2.303	1.893	20.189
1.75	1.625	3.199	2.630	22.819
2.00	1.875	5.398	4.438	27.256
2.25	2.125	10.613	8.725	35.981
2.50	2.375	22.508	18.503	54.484
2.75	2.625	32.188	26.461	80.946
3.00	2.875	18.021	14.815	95.761
3.25	3.125	4.283	3.521	99.281
3.50	3.375	0.684	0.562	99.844
3.75	3.625	0.140	0.115	99.959
4.00	3.875	0.040	0.033	99.992
5.00	4.500	0.010	0.008	100.000

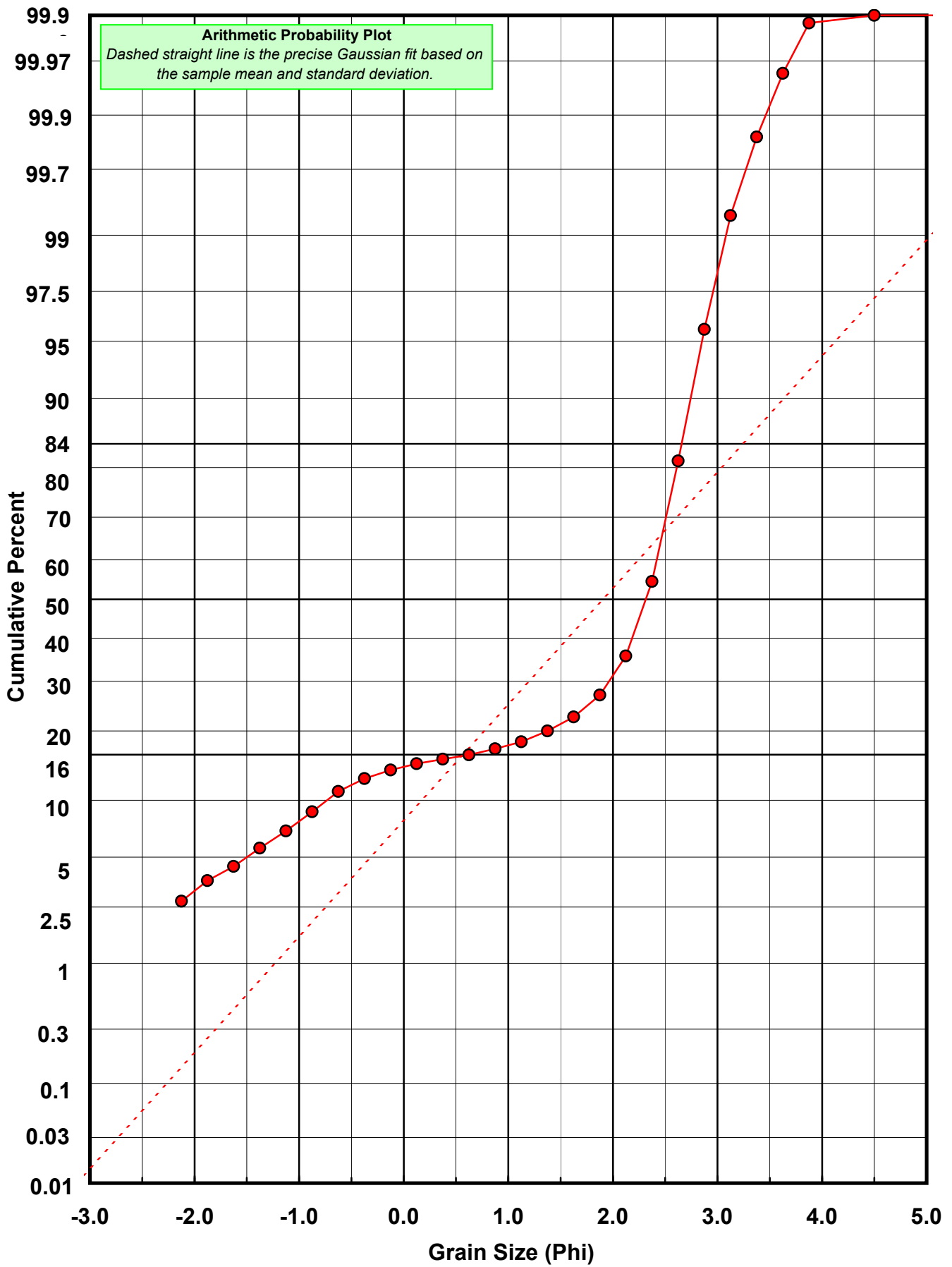
Statistical Results			
Mean:	1.9055	phi	(0.2669 mm)
Standard Dev:	1.3514	phi-units	(0.3919 mm)
Skewness:	-1.7237	dimensionless	
Kurtosis:	4.8025	dimensionless	
5th Moment:	-12.2478	dimensionless	
6th Moment:	33.3138	dimensionless	
RARD *	0.7092	dimensionless	
Median	2.3144	phi	(0.201 mm)

* 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-44-SS

Total Carbonate Mass: 24.240 grams

% Carbonate: 18.9 %

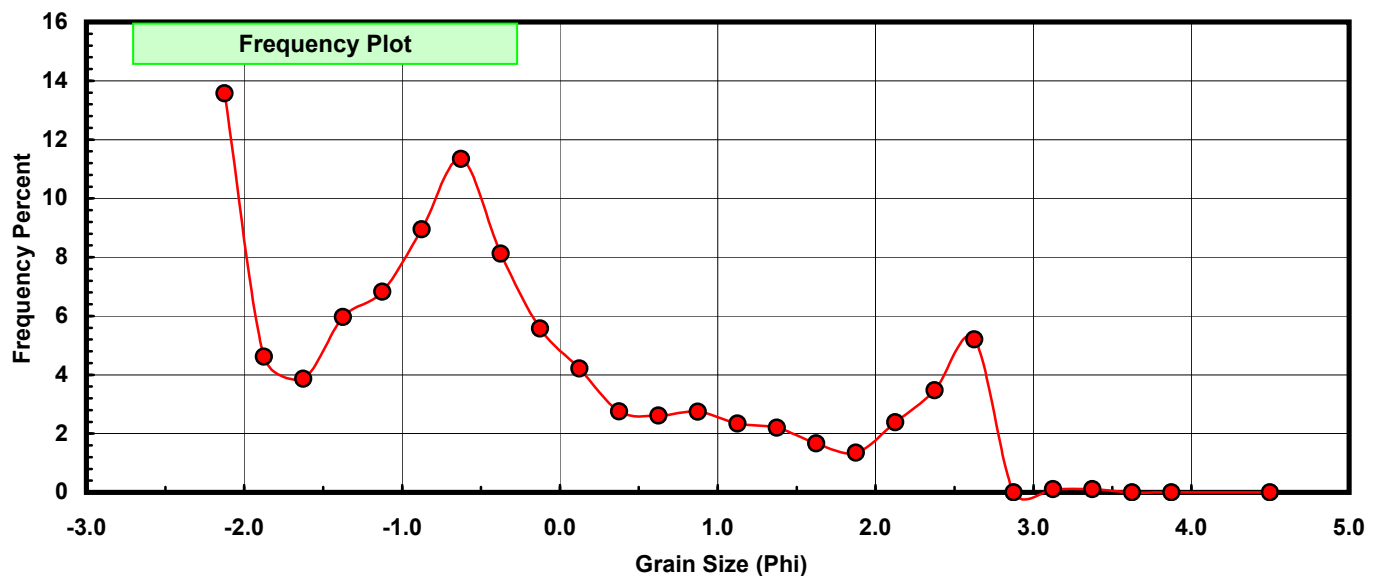
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	3.290	13.573	13.573
-1.75	-1.875	1.118	4.612	18.185
-1.50	-1.625	0.937	3.866	22.050
-1.25	-1.375	1.447	5.969	28.020
-1.00	-1.125	1.654	6.823	34.843
-0.75	-0.875	2.170	8.952	43.795
-0.50	-0.625	2.749	11.341	55.136
-0.25	-0.375	1.968	8.119	63.255
0.00	-0.125	1.352	5.578	68.833
0.25	0.125	1.021	4.212	73.045
0.50	0.375	0.668	2.756	75.800
0.75	0.625	0.633	2.611	78.412
1.00	0.875	0.665	2.743	81.155
1.25	1.125	0.568	2.343	83.498
1.50	1.375	0.533	2.199	85.697
1.75	1.625	0.404	1.667	87.364
2.00	1.875	0.327	1.349	88.713
2.25	2.125	0.578	2.384	91.097
2.50	2.375	0.842	3.474	94.571
2.75	2.625	1.262	5.206	99.777
3.00	2.875	0.000	0.000	99.777
3.25	3.125	0.027	0.111	99.889
3.50	3.375	0.027	0.111	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

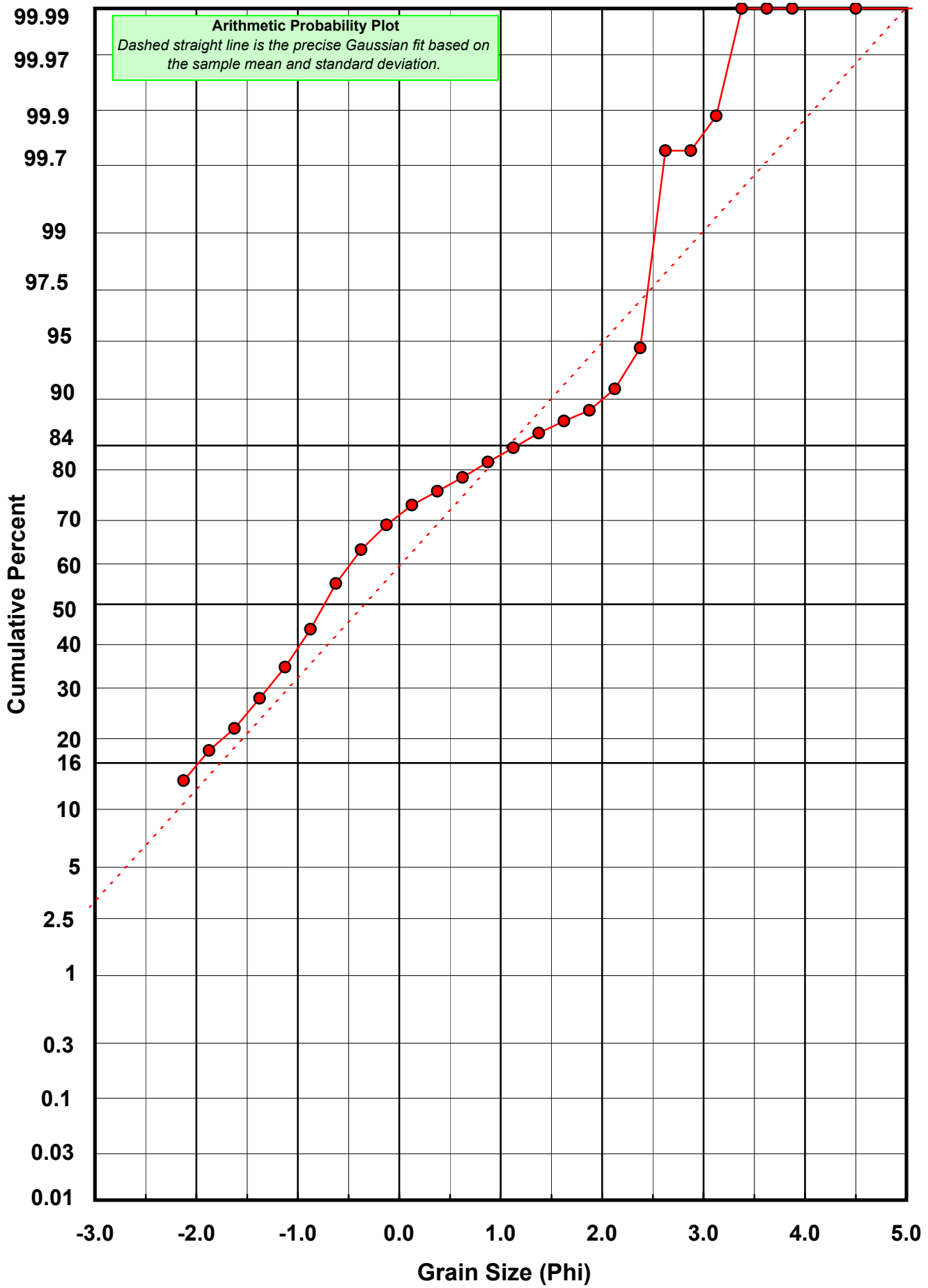
Statistical Results			
Mean:	-0.3412	phi	(1.2668 mm)
Standard Dev:	1.4332	phi-units	(0.3703 mm)
Skewness:	0.6834	dimensionless	
Kurtosis:	2.4667	dimensionless	
5th Moment:	3.3356	dimensionless	
6th Moment:	8.2255	dimensionless	
RARD *	4.2003	dimensionless	
Median	-0.7382	phi	(1.6681 mm)

* 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-44-SS

Total Digested Mass: 98.594 grams

% Silica: 81.1 %

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	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.026	0.026	0.026
-0.25	-0.375	0.047	0.048	0.074
0.00	-0.125	0.084	0.085	0.159
0.25	0.125	0.137	0.139	0.298
0.50	0.375	0.149	0.151	0.449
0.75	0.625	0.180	0.183	0.632
1.00	0.875	0.534	0.542	1.173
1.25	1.125	0.858	0.870	2.044
1.50	1.375	1.770	1.795	3.839
1.75	1.625	2.795	2.835	6.674
2.00	1.875	5.071	5.143	11.817
2.25	2.125	10.035	10.178	21.995
2.50	2.375	21.666	21.975	43.970
2.75	2.625	30.926	31.367	75.337
3.00	2.875	19.198	19.472	94.809
3.25	3.125	4.256	4.317	99.126
3.50	3.375	0.657	0.666	99.792
3.75	3.625	0.159	0.161	99.953
4.00	3.875	0.046	0.047	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.4696	phi	(0.1805 mm)
Standard Dev:	0.4526	phi-units	(0.7307 mm)
Skewness:	-1.5345	dimensionless	
Kurtosis:	7.7151	dimensionless	
5th Moment:	-31.0602	dimensionless	
6th Moment:	161.5619	dimensionless	
RARD *	0.1833	dimensionless	
Median	2.4231	phi	(0.1865 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)

