

Onshore Grab Sample

Sample: SJ-30-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 50' 54.2"
Longitude: 81° 15' 55.0"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 50.793 grams
Total Fines in Sample 0.182 grams
Total Percent Fines 0.36 %

Dry Sieving Summary

Total Sample Weight 50.642 grams
Total Digested Weight 42.717 grams
Total Carbonate Weight 7.925 grams
Total Silica % 84.35 %
Total Carbonate % 15.65 %
Carbonate/Silica Ratio 0.186

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-30-BB

Total Sample Mass: 50.642 grams

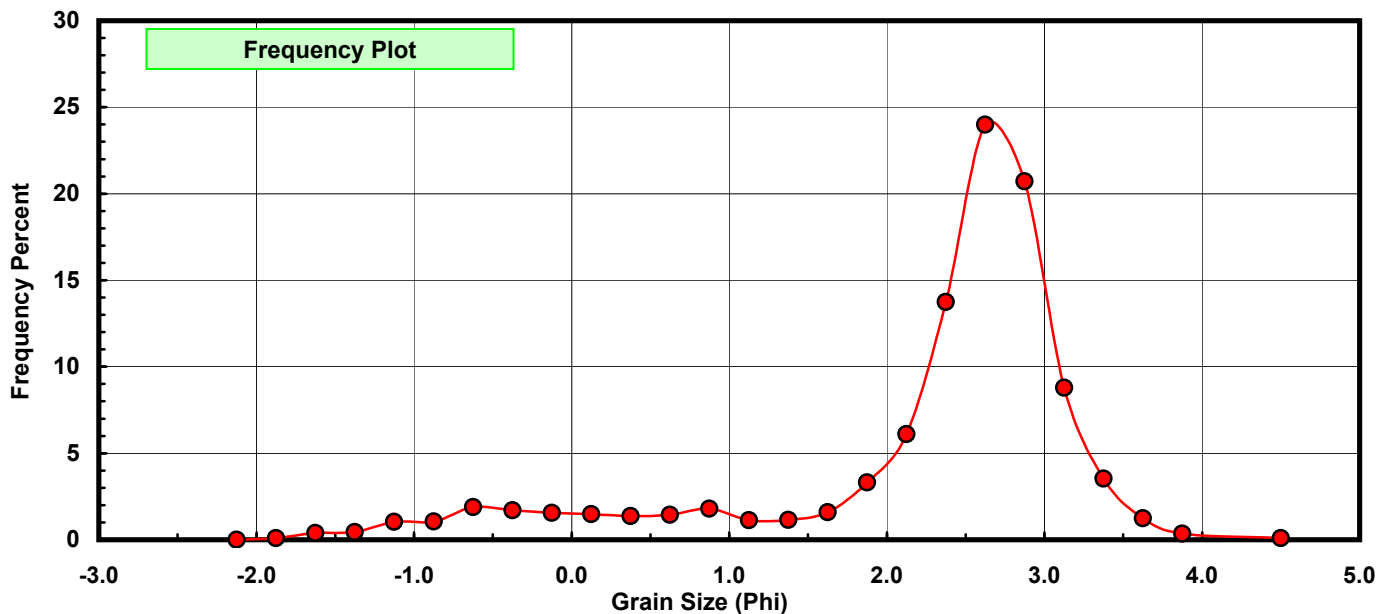
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.051	0.101	0.101
-1.50	-1.625	0.193	0.381	0.482
-1.25	-1.375	0.224	0.442	0.924
-1.00	-1.125	0.520	1.027	1.951
-0.75	-0.875	0.533	1.052	3.003
-0.50	-0.625	0.956	1.888	4.891
-0.25	-0.375	0.864	1.706	6.597
0.00	-0.125	0.791	1.562	8.159
0.25	0.125	0.753	1.487	9.646
0.50	0.375	0.696	1.374	11.020
0.75	0.625	0.731	1.443	12.464
1.00	0.875	0.909	1.795	14.259
1.25	1.125	0.574	1.133	15.392
1.50	1.375	0.579	1.143	16.536
1.75	1.625	0.810	1.599	18.135
2.00	1.875	1.680	3.317	21.453
2.25	2.125	3.094	6.110	27.562
2.50	2.375	6.964	13.751	41.314
2.75	2.625	12.151	23.994	65.307
3.00	2.875	10.486	20.706	86.014
3.25	3.125	4.447	8.781	94.795
3.50	3.375	1.786	3.527	98.322
3.75	3.625	0.625	1.234	99.556
4.00	3.875	0.177	0.350	99.905
5.00	4.500	0.048	0.095	100.000

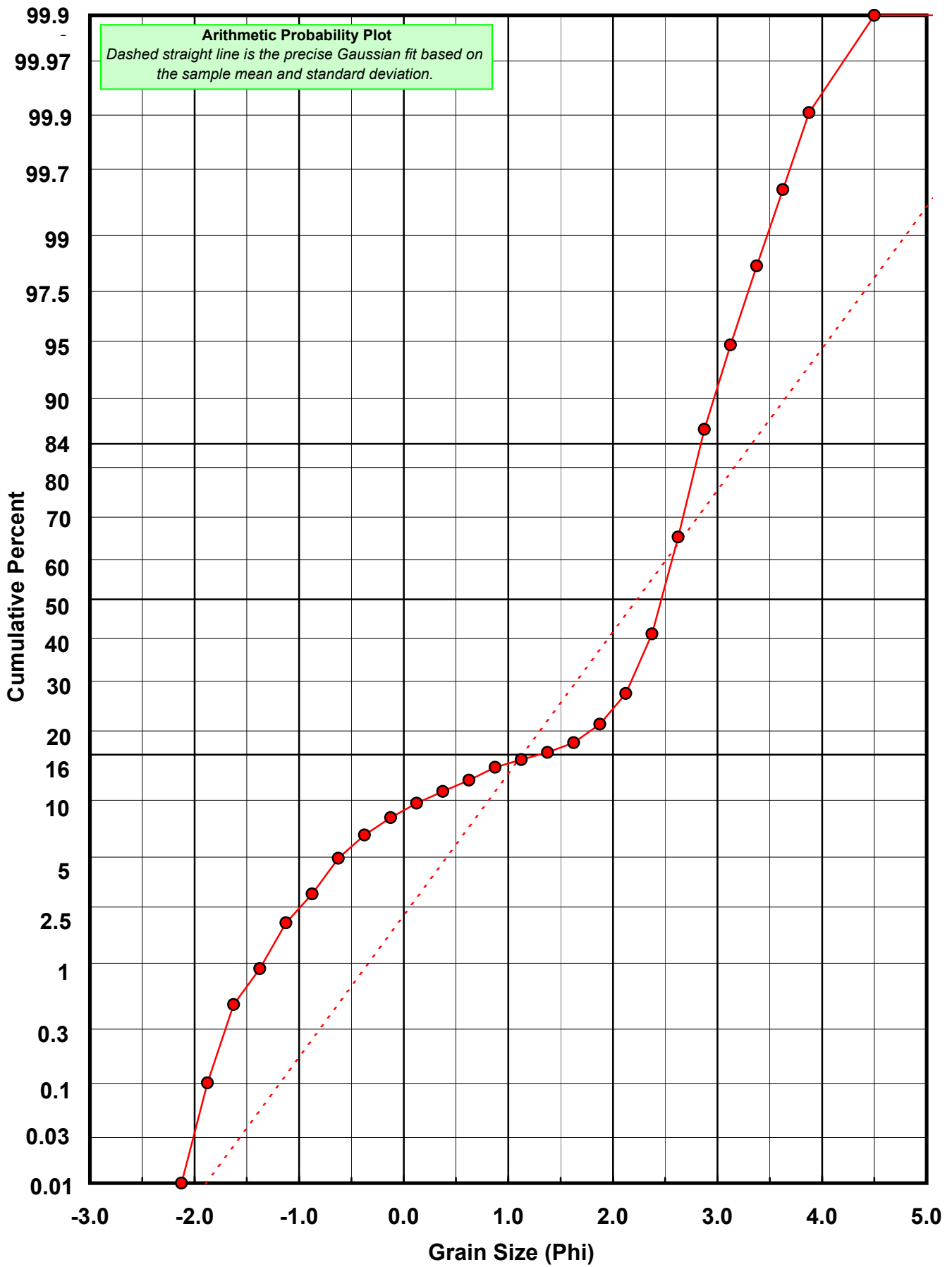
Statistical Results			
Mean:	2.2309	phi	(0.213 mm)
Standard Dev:	1.1074	phi-units	(0.4641 mm)
Skewness:	-1.6961	dimensionless	
Kurtosis:	5.1391	dimensionless	
5th Moment:	-13.5849	dimensionless	
6th Moment:	39.8976	dimensionless	
RARD *	0.4964	dimensionless	
Median	2.4655	phi	(0.1811 mm)

* 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-30-BB

Total Carbonate Mass: 8.359 grams

% Carbonate: 15.6 %

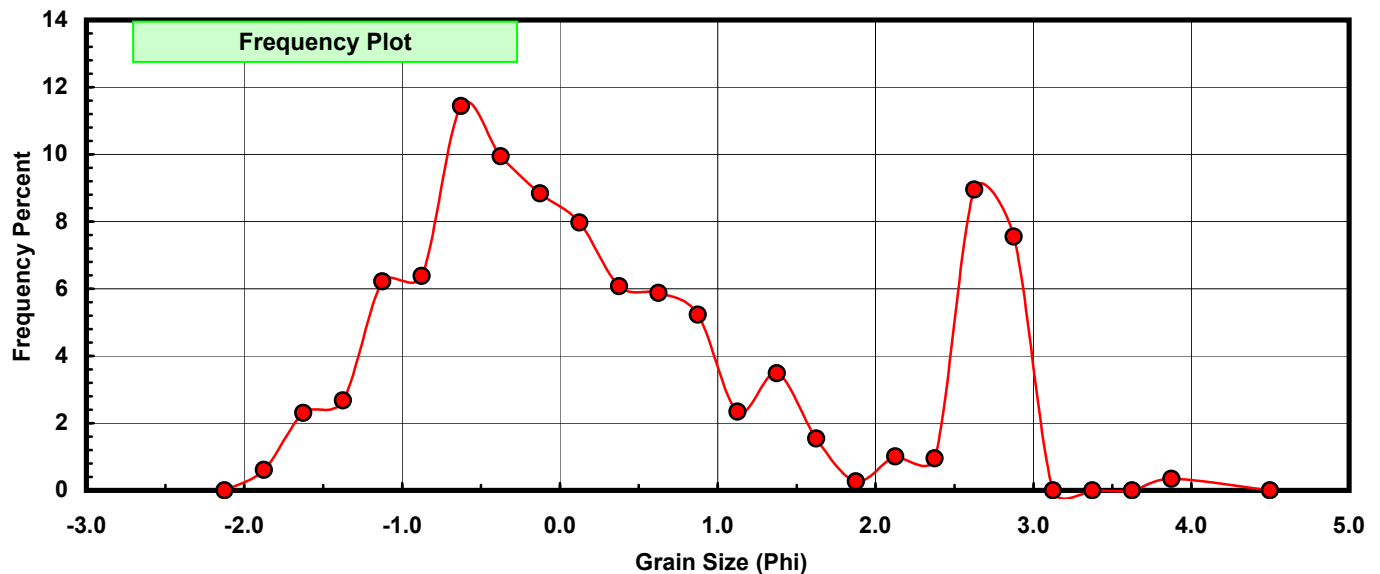
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.051	0.610	0.610
-1.50	-1.625	0.193	2.309	2.919
-1.25	-1.375	0.224	2.680	5.599
-1.00	-1.125	0.520	6.221	11.820
-0.75	-0.875	0.533	6.376	18.196
-0.50	-0.625	0.956	11.437	29.633
-0.25	-0.375	0.831	9.941	39.574
0.00	-0.125	0.739	8.841	48.415
0.25	0.125	0.666	7.967	56.382
0.50	0.375	0.508	6.077	62.460
0.75	0.625	0.491	5.874	68.334
1.00	0.875	0.437	5.228	73.561
1.25	1.125	0.196	2.345	75.906
1.50	1.375	0.291	3.481	79.387
1.75	1.625	0.129	1.543	80.931
2.00	1.875	0.022	0.263	81.194
2.25	2.125	0.084	1.005	82.199
2.50	2.375	0.080	0.957	83.156
2.75	2.625	0.748	8.948	92.104
3.00	2.875	0.631	7.549	99.653
3.25	3.125	0.000	0.000	99.653
3.50	3.375	0.000	0.000	99.653
3.75	3.625	0.000	0.000	99.653
4.00	3.875	0.029	0.347	100.000
5.00	4.500	0.000	0.000	100.000

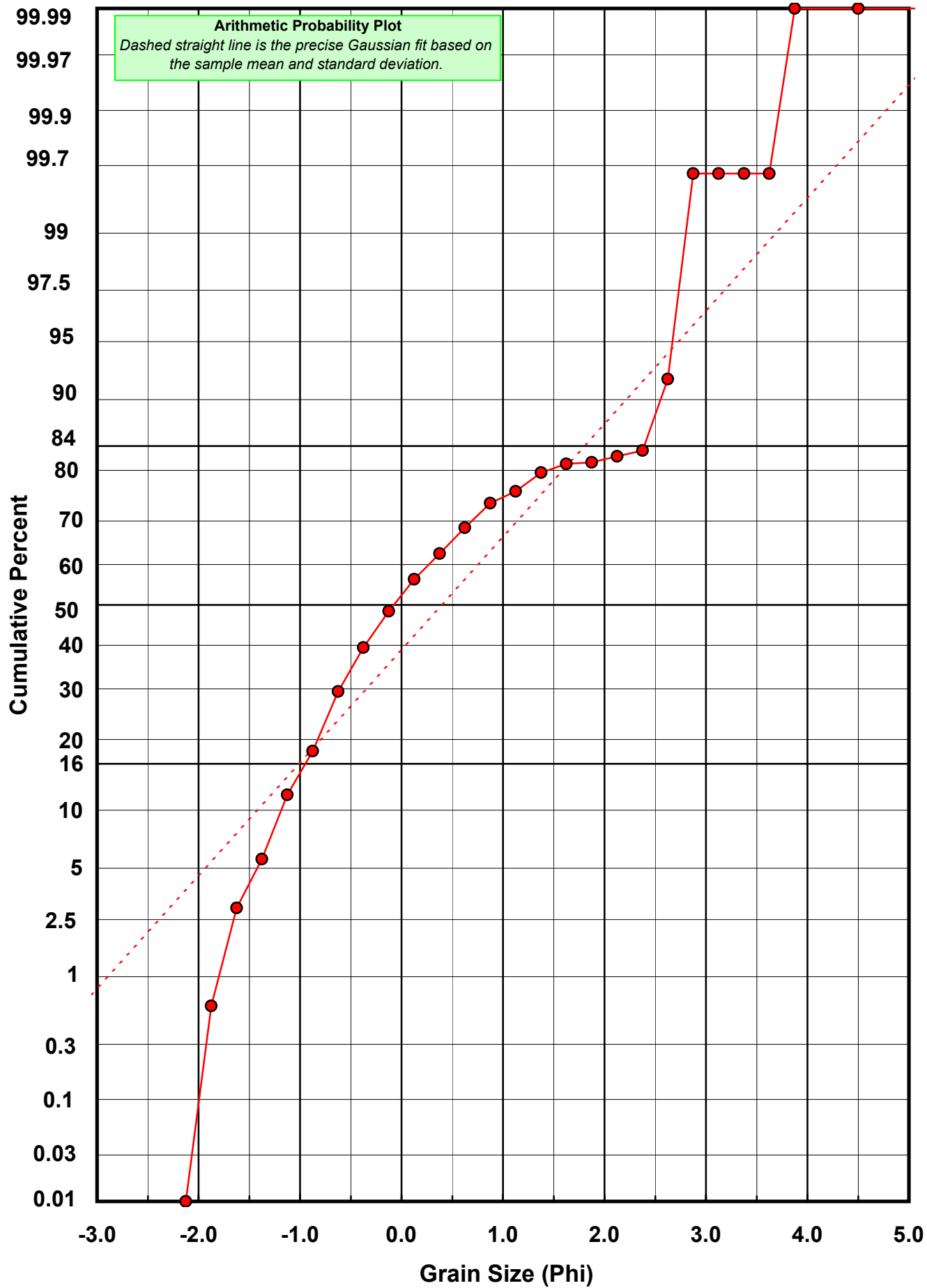
Statistical Results			
Mean:	0.3975	phi	(0.7592 mm)
Standard Dev:	1.4191	phi-units	(0.3739 mm)
Skewness:	0.6154	dimensionless	
Kurtosis:	2.0618	dimensionless	
5th Moment:	2.3209	dimensionless	
6th Moment:	5.5529	dimensionless	
RARD *	3.5699	dimensionless	
Median	-0.0753	phi	(1.0536 mm)

* 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-30-BB

Total Digested Mass: 42.672 grams

% Silica: 84.4 %

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	0.033	0.077	0.077
0.00	-0.125	0.052	0.122	0.199
0.25	0.125	0.087	0.204	0.403
0.50	0.375	0.188	0.441	0.844
0.75	0.625	0.240	0.562	1.406
1.00	0.875	0.472	1.106	2.512
1.25	1.125	0.378	0.886	3.398
1.50	1.375	0.288	0.675	4.073
1.75	1.625	0.681	1.596	5.669
2.00	1.875	1.658	3.885	9.554
2.25	2.125	3.010	7.054	16.608
2.50	2.375	6.884	16.132	32.740
2.75	2.625	11.403	26.722	59.463
3.00	2.875	9.855	23.095	82.558
3.25	3.125	4.840	11.342	93.900
3.50	3.375	1.811	4.244	98.144
3.75	3.625	0.644	1.509	99.653
4.00	3.875	0.148	0.347	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5970	phi	(0.1653 mm)
Standard Dev:	0.5449	phi-units	(0.6854 mm)
Skewness:	-1.5021	dimensionless	
Kurtosis:	7.3189	dimensionless	
5th Moment:	-25.1455	dimensionless	
6th Moment:	110.2967	dimensionless	
RARD *	0.2098	dimensionless	
Median	2.5365	phi	(0.1724 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)

