

Onshore Grab Sample

Sample: SJ-10-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/2/03
Splits? N/A

County: St. Johns
Latitude: 30° 07' 50.3"
Longitude: 81° 20' 53.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 62.263 grams
Total Fines in Sample 0.151 grams
Total Percent Fines 0.24 %

Dry Sieving Summary

Total Sample Weight 62.151 grams
Total Digested Weight 5.263 grams
Total Carbonate Weight 56.888 grams
Total Silica % 8.47 %
Total Carbonate % 91.53 %
Carbonate/Silica Ratio 10.809

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-10-BB

Total Sample Mass: 62.151 grams

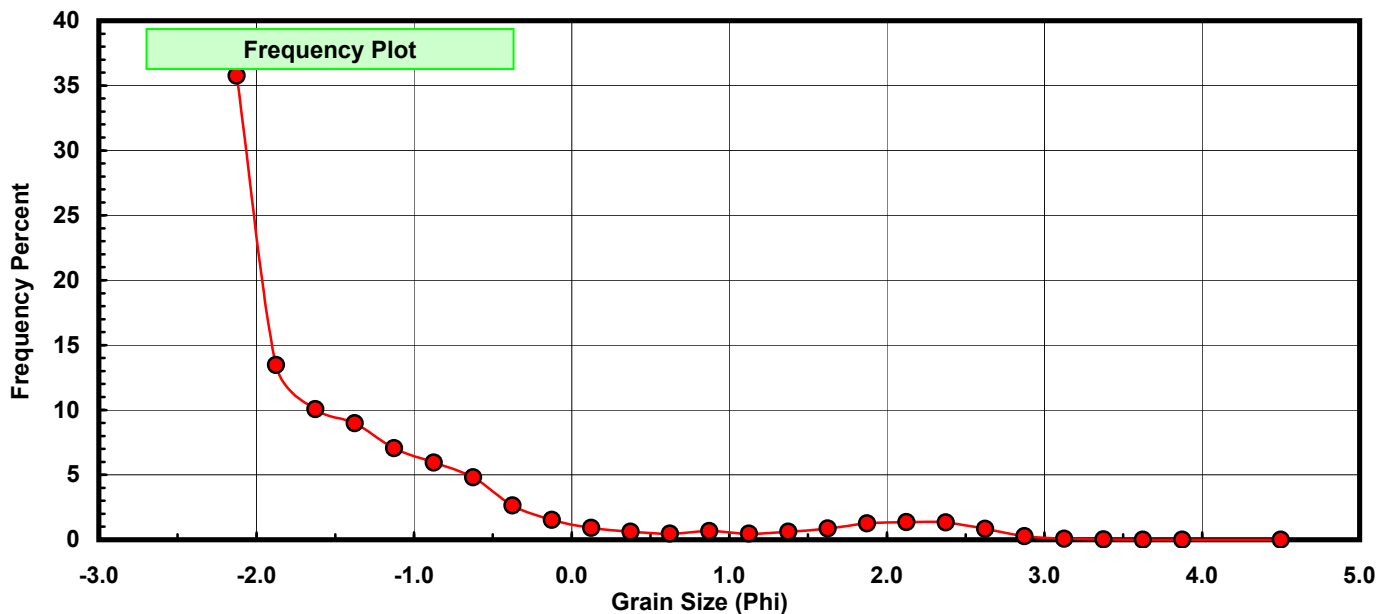
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	22.228	35.765	35.765
-1.75	-1.875	8.367	13.462	49.227
-1.50	-1.625	6.247	10.051	59.278
-1.25	-1.375	5.574	8.968	68.247
-1.00	-1.125	4.386	7.057	75.304
-0.75	-0.875	3.700	5.953	81.257
-0.50	-0.625	2.986	4.804	86.061
-0.25	-0.375	1.638	2.636	88.697
0.00	-0.125	0.954	1.535	90.232
0.25	0.125	0.574	0.924	91.155
0.50	0.375	0.380	0.611	91.767
0.75	0.625	0.291	0.468	92.235
1.00	0.875	0.411	0.661	92.896
1.25	1.125	0.291	0.468	93.365
1.50	1.375	0.384	0.618	93.982
1.75	1.625	0.534	0.859	94.842
2.00	1.875	0.785	1.263	96.105
2.25	2.125	0.842	1.355	97.459
2.50	2.375	0.820	1.319	98.779
2.75	2.625	0.521	0.838	99.617
3.00	2.875	0.170	0.274	99.891
3.25	3.125	0.045	0.072	99.963
3.50	3.375	0.015	0.024	99.987
3.75	3.625	0.005	0.008	99.995
4.00	3.875	0.002	0.003	99.998
5.00	4.500	0.001	0.002	100.000

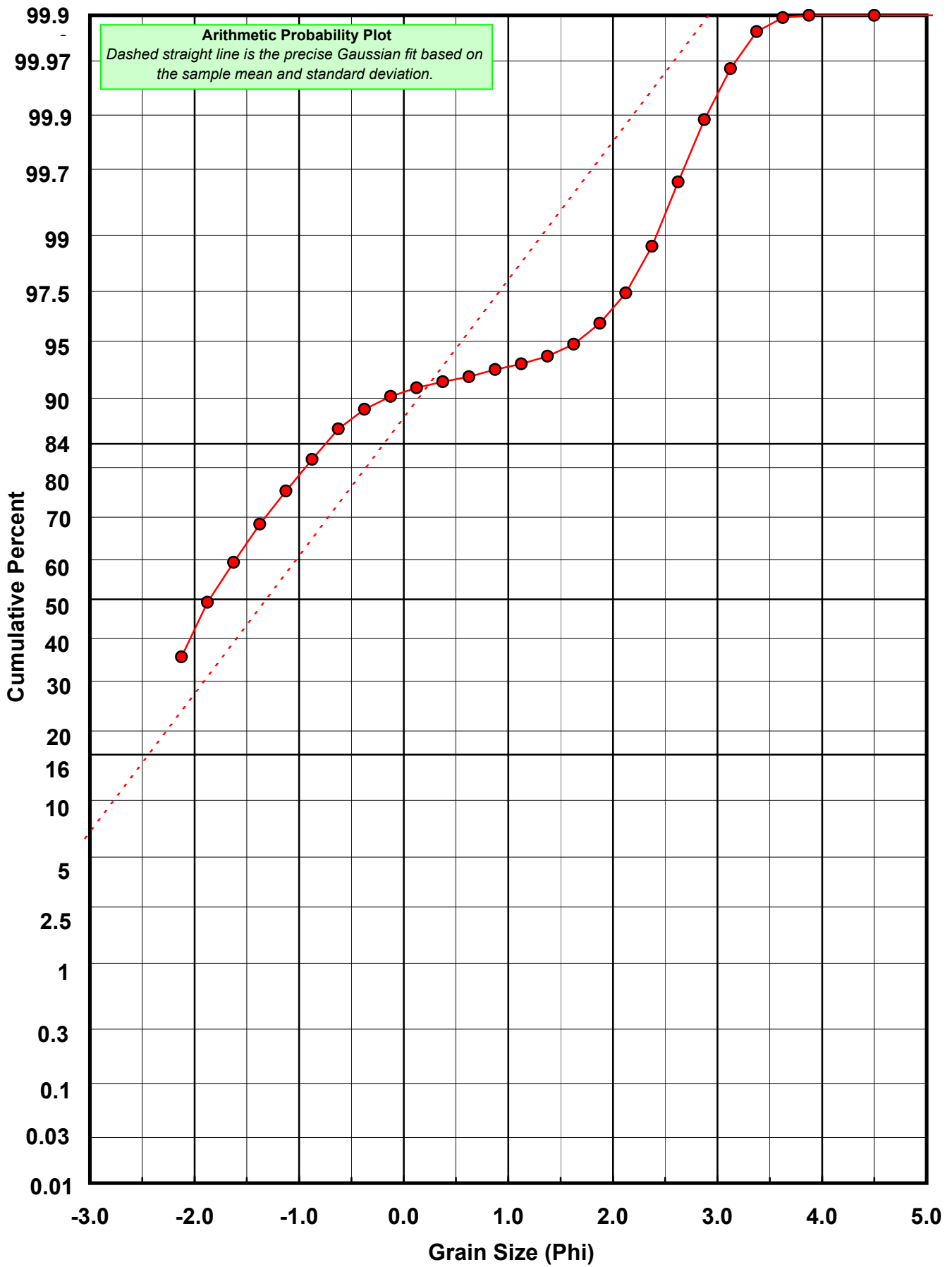
Statistical Results			
Mean:	-1.3153	phi	(2.4885 mm)
Standard Dev:	1.1367	phi-units	(0.4548 mm)
Skewness:	1.9825	dimensionless	
Kurtosis:	6.5008	dimensionless	
5th Moment:	19.9202	dimensionless	
6th Moment:	64.1228	dimensionless	
RARD *	0.8642	dimensionless	
Median	-1.8558	phi	(3.6195 mm)

* 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-10-BB

Total Carbonate Mass: 56.904 grams

% Carbonate: 91.5 %

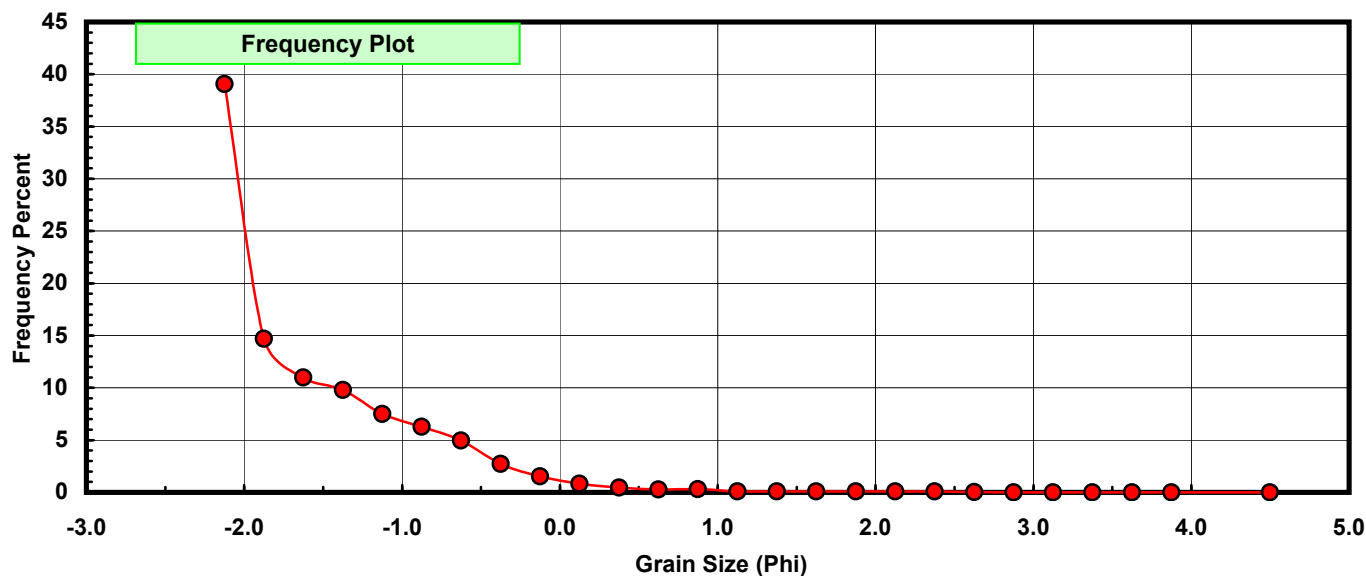
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	22.228	39.062	39.062
-1.75	-1.875	8.367	14.704	53.766
-1.50	-1.625	6.247	10.978	64.744
-1.25	-1.375	5.574	9.795	74.540
-1.00	-1.125	4.263	7.492	82.031
-0.75	-0.875	3.575	6.283	88.314
-0.50	-0.625	2.820	4.956	93.269
-0.25	-0.375	1.548	2.720	95.990
0.00	-0.125	0.867	1.524	97.513
0.25	0.125	0.479	0.842	98.355
0.50	0.375	0.261	0.459	98.814
0.75	0.625	0.164	0.288	99.102
1.00	0.875	0.176	0.309	99.411
1.25	1.125	0.055	0.097	99.508
1.50	1.375	0.060	0.105	99.613
1.75	1.625	0.052	0.091	99.705
2.00	1.875	0.047	0.083	99.787
2.25	2.125	0.059	0.104	99.891
2.50	2.375	0.051	0.090	99.981
2.75	2.625	0.011	0.019	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

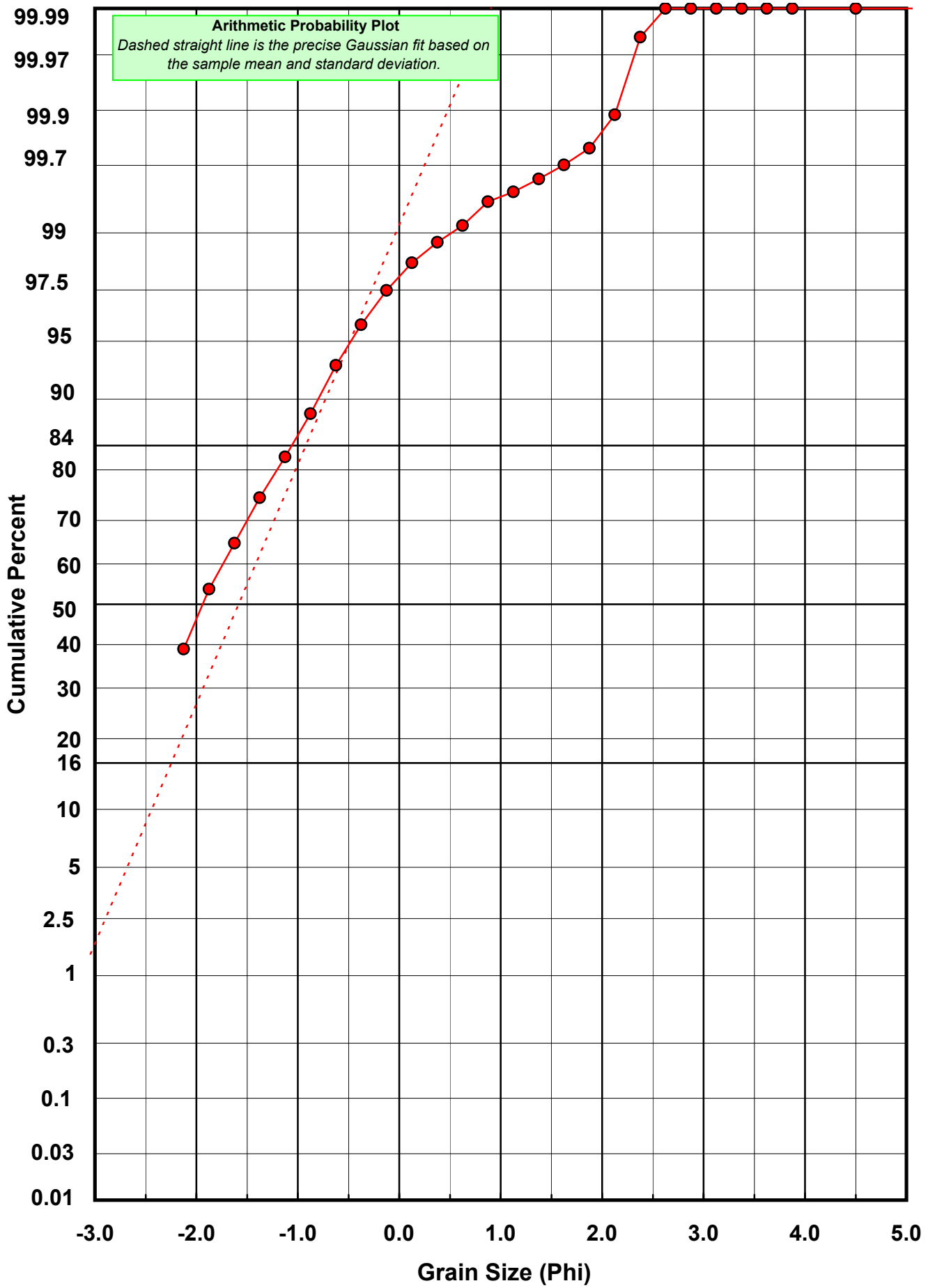
Statistical Results			
Mean:	-1.5835	phi	(2.9969 mm)
Standard Dev:	0.6682	phi-units	(0.6293 mm)
Skewness:	1.6745	dimensionless	
Kurtosis:	6.9843	dimensionless	
5th Moment:	29.3495	dimensionless	
6th Moment:	142.8180	dimensionless	
RARD *	0.4220	dimensionless	
Median	-1.9390	phi	(3.8345 mm)

* 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-10-BB

Total Digested Mass: 5.262 grams

% Silica: 8.5 %

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	0.123	2.338	2.338
-0.75	-0.875	0.125	2.376	4.713
-0.50	-0.625	0.166	3.155	7.868
-0.25	-0.375	0.090	1.710	9.578
0.00	-0.125	0.087	1.653	11.231
0.25	0.125	0.095	1.805	13.037
0.50	0.375	0.119	2.261	15.298
0.75	0.625	0.127	2.414	17.712
1.00	0.875	0.235	4.466	22.178
1.25	1.125	0.236	4.485	26.663
1.50	1.375	0.324	6.157	32.820
1.75	1.625	0.482	9.160	41.980
2.00	1.875	0.738	14.025	56.005
2.25	2.125	0.783	14.880	70.886
2.50	2.375	0.769	14.614	85.500
2.75	2.625	0.510	9.692	95.192
3.00	2.875	0.171	3.250	98.442
3.25	3.125	0.050	0.950	99.392
3.50	3.375	0.018	0.342	99.734
3.75	3.625	0.009	0.171	99.905
4.00	3.875	0.005	0.095	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.5988	phi	(0.3301 mm)
Standard Dev:	1.0310	phi-units	(0.4894 mm)
Skewness:	-1.0909	dimensionless	
Kurtosis:	3.4735	dimensionless	
5th Moment:	-6.7651	dimensionless	
6th Moment:	17.7402	dimensionless	
RARD *	0.6449	dimensionless	
Median	1.7680	phi	(0.2936 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)

