

Onshore Grab Sample

Sample: SJ-31-MB
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 50' 5.4"
Longitude: 81° 15' 50.3"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	53.287 grams
Total Fines in Sample	0.122 grams
Total Percent Fines	0.23 %

Dry Sieving Summary

Total Sample Weight	53.397 grams
Total Digested Weight	50.482 grams
Total Carbonate Weight	2.915 grams
Total Silica %	94.54 %
Total Carbonate %	5.46 %
Carbonate/Silica Ratio	0.058

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-31-MB

Total Sample Mass: 53.397 grams

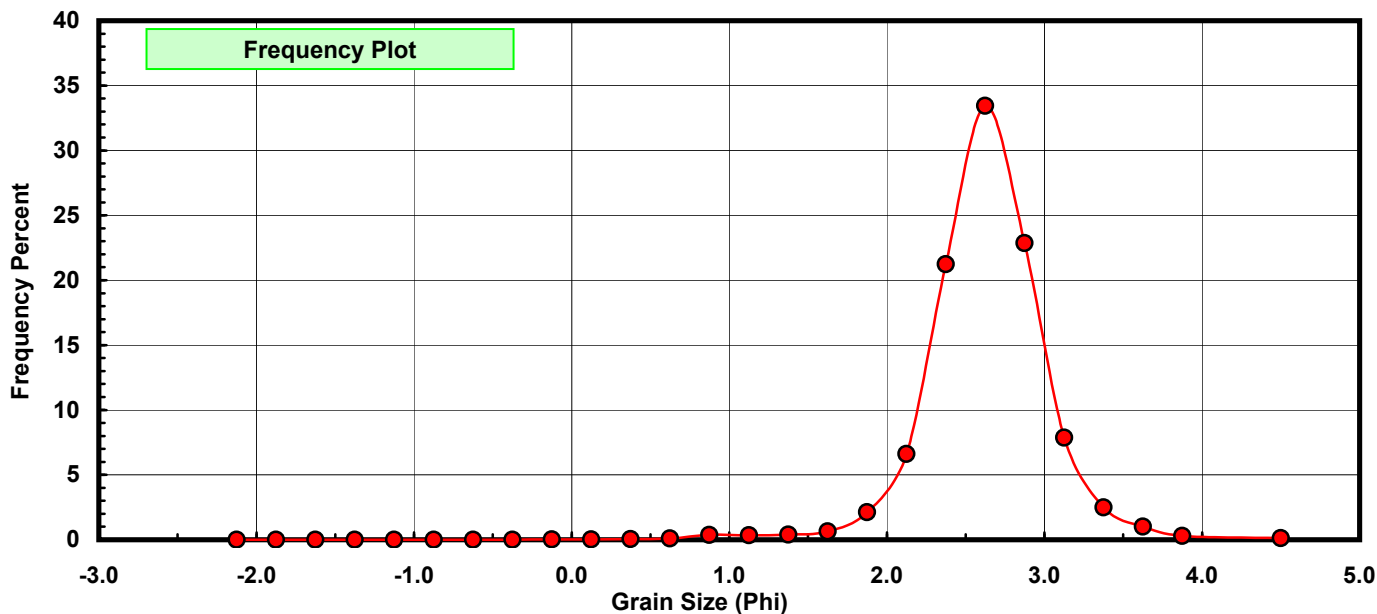
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.005	0.009	0.009
0.00	-0.125	0.007	0.013	0.022
0.25	0.125	0.019	0.036	0.058
0.50	0.375	0.027	0.051	0.109
0.75	0.625	0.055	0.103	0.212
1.00	0.875	0.191	0.358	0.569
1.25	1.125	0.187	0.350	0.920
1.50	1.375	0.209	0.391	1.311
1.75	1.625	0.338	0.633	1.944
2.00	1.875	1.136	2.127	4.071
2.25	2.125	3.524	6.600	10.671
2.50	2.375	11.339	21.235	31.906
2.75	2.625	17.858	33.444	65.350
3.00	2.875	12.213	22.872	88.222
3.25	3.125	4.207	7.879	96.101
3.50	3.375	1.326	2.483	98.584
3.75	3.625	0.541	1.013	99.597
4.00	3.875	0.155	0.290	99.888
5.00	4.500	0.060	0.112	100.000

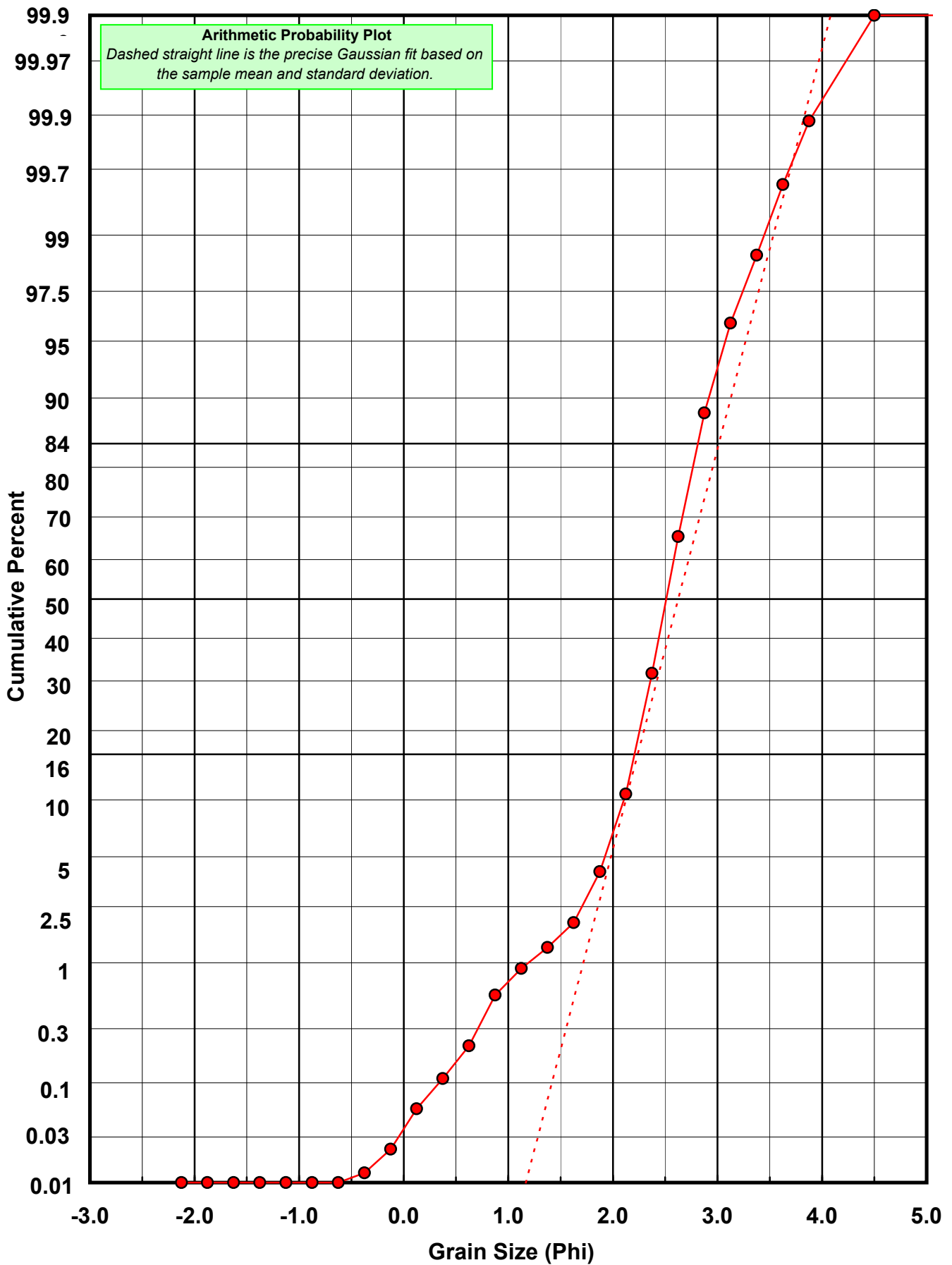
Statistical Results			
Mean:	2.6266	phi	(0.1619 mm)
Standard Dev:	0.3914	phi-units	(0.7624 mm)
Skewness:	-0.7464	dimensionless	
Kurtosis:	7.9165	dimensionless	
5th Moment:	-22.0698	dimensionless	
6th Moment:	167.1364	dimensionless	
RARD *	0.1490	dimensionless	
Median	2.5103	phi	(0.1755 mm)

* 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-31-MB

Total Carbonate Mass: 2.934 grams

% Carbonate: 5.5 %

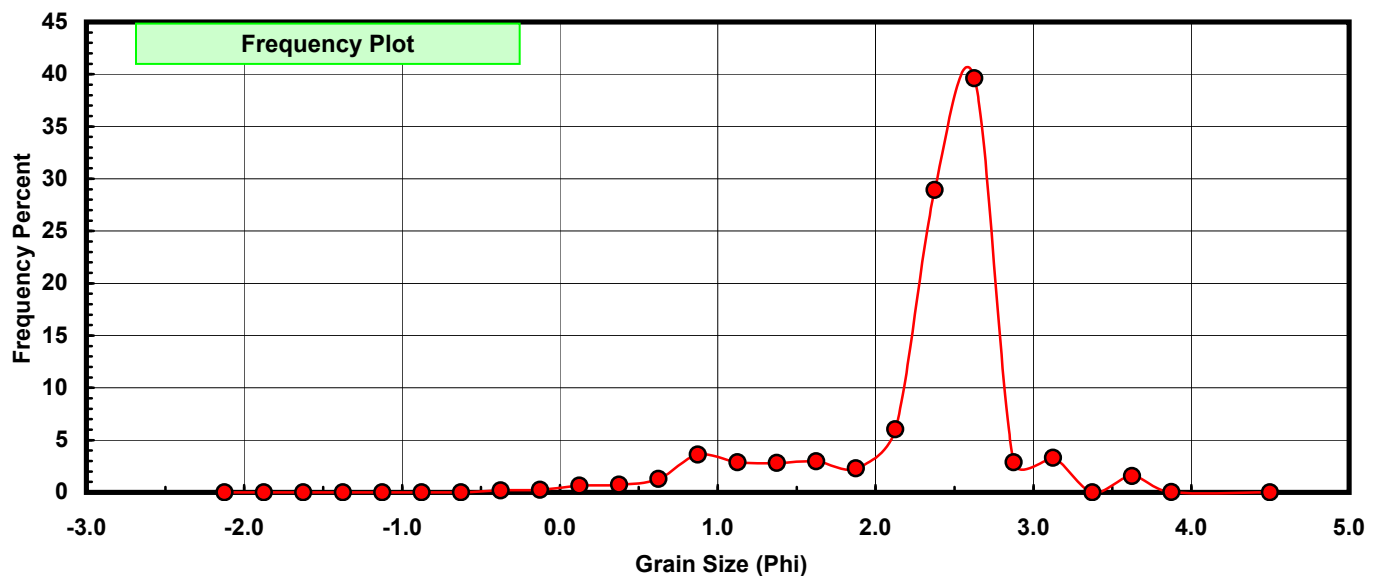
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.005	0.170	0.170
0.00	-0.125	0.007	0.239	0.409
0.25	0.125	0.019	0.648	1.057
0.50	0.375	0.022	0.750	1.806
0.75	0.625	0.038	1.295	3.102
1.00	0.875	0.106	3.613	6.714
1.25	1.125	0.084	2.863	9.577
1.50	1.375	0.083	2.829	12.406
1.75	1.625	0.087	2.965	15.372
2.00	1.875	0.067	2.284	17.655
2.25	2.125	0.177	6.033	23.688
2.50	2.375	0.849	28.937	52.624
2.75	2.625	1.162	39.605	92.229
3.00	2.875	0.084	2.863	95.092
3.25	3.125	0.097	3.306	98.398
3.50	3.375	0.000	0.000	98.398
3.75	3.625	0.046	1.568	99.966
4.00	3.875	0.001	0.034	100.000
5.00	4.500	0.000	0.000	100.000

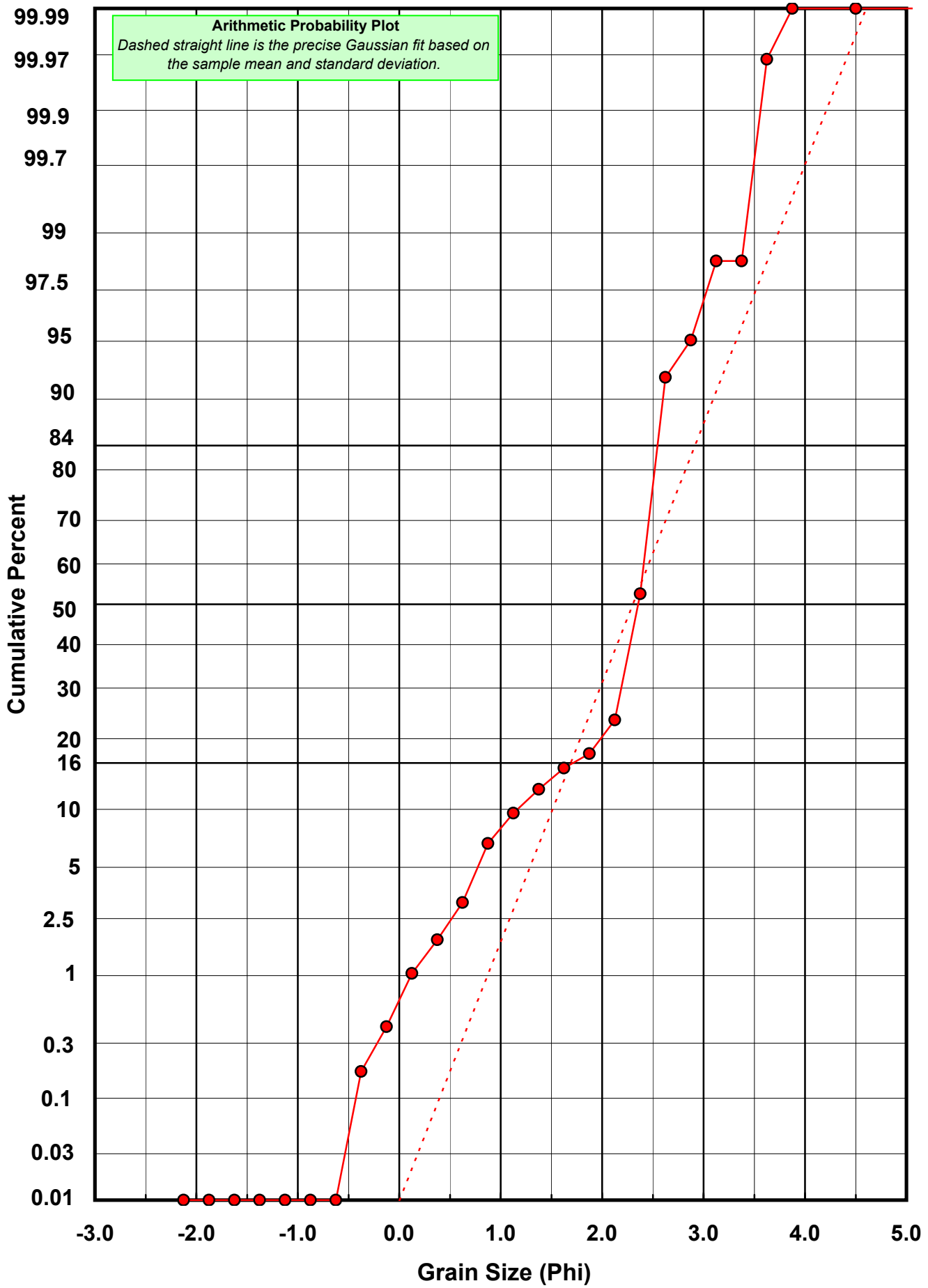
Statistical Results			
Mean:	2.3033	phi	(0.2026 mm)
Standard Dev:	0.6175	phi-units	(0.6518 mm)
Skewness:	-1.5308	dimensionless	
Kurtosis:	5.6998	dimensionless	
5th Moment:	-15.0138	dimensionless	
6th Moment:	53.9166	dimensionless	
RARD *	0.2681	dimensionless	
Median	2.3523	phi	(0.1958 mm)

* 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-31-MB

Total Digested Mass: 50.432 grams

% Silica: 94.5 %

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	0.000	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	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.005	0.010	0.010
0.75	0.625	0.017	0.034	0.044
1.00	0.875	0.085	0.169	0.212
1.25	1.125	0.103	0.204	0.416
1.50	1.375	0.126	0.250	0.666
1.75	1.625	0.251	0.498	1.164
2.00	1.875	1.069	2.120	3.284
2.25	2.125	3.347	6.637	9.920
2.50	2.375	10.490	20.800	30.721
2.75	2.625	16.696	33.106	63.827
3.00	2.875	12.129	24.050	87.877
3.25	3.125	4.110	8.150	96.026
3.50	3.375	1.355	2.687	98.713
3.75	3.625	0.495	0.982	99.695
4.00	3.875	0.154	0.305	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6436	phi	(0.16 mm)
Standard Dev:	0.3596	phi-units	(0.7794 mm)
Skewness:	-0.3533	dimensionless	
Kurtosis:	5.4632	dimensionless	
5th Moment:	-10.1023	dimensionless	
6th Moment:	75.1014	dimensionless	
RARD *	0.1360	dimensionless	
Median	2.5206	phi	(0.1743 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)

