

Onshore Grab Sample

Sample: SJ-16-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/2/03
Splits? N/A

County: St. Johns
Latitude: 30° 02' 46.1"
Longitude: 81° 19' 42.0"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 79.13 grams
Total Fines in Sample 0.600 grams
Total Percent Fines 0.75 %

Dry Sieving Summary

Total Sample Weight 78.552 grams
Total Digested Weight 54.855 grams
Total Carbonate Weight 23.697 grams
Total Silica % 69.83 %
Total Carbonate % 30.17 %
Carbonate/Silica Ratio 0.432

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-16-SS

Total Sample Mass: 78.552 grams

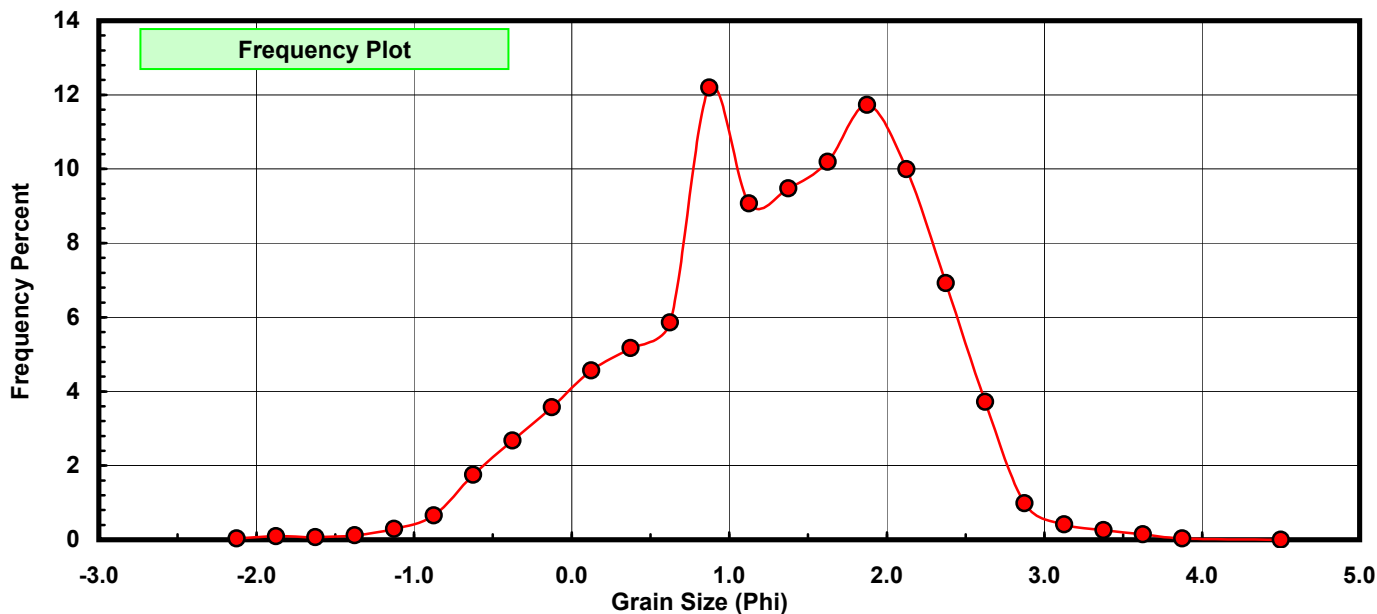
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.028	0.036	0.036
-1.75	-1.875	0.074	0.094	0.130
-1.50	-1.625	0.057	0.073	0.202
-1.25	-1.375	0.095	0.121	0.323
-1.00	-1.125	0.233	0.297	0.620
-0.75	-0.875	0.514	0.654	1.274
-0.50	-0.625	1.378	1.754	3.029
-0.25	-0.375	2.100	2.673	5.702
0.00	-0.125	2.804	3.570	9.272
0.25	0.125	3.588	4.568	13.839
0.50	0.375	4.058	5.166	19.005
0.75	0.625	4.601	5.857	24.863
1.00	0.875	9.583	12.200	37.062
1.25	1.125	7.124	9.069	46.131
1.50	1.375	7.446	9.479	55.610
1.75	1.625	8.009	10.196	65.806
2.00	1.875	9.216	11.732	77.538
2.25	2.125	7.850	9.993	87.532
2.50	2.375	5.436	6.920	94.452
2.75	2.625	2.923	3.721	98.173
3.00	2.875	0.770	0.980	99.153
3.25	3.125	0.324	0.412	99.566
3.50	3.375	0.202	0.257	99.823
3.75	3.625	0.113	0.144	99.967
4.00	3.875	0.024	0.031	99.997
5.00	4.500	0.002	0.003	100.000

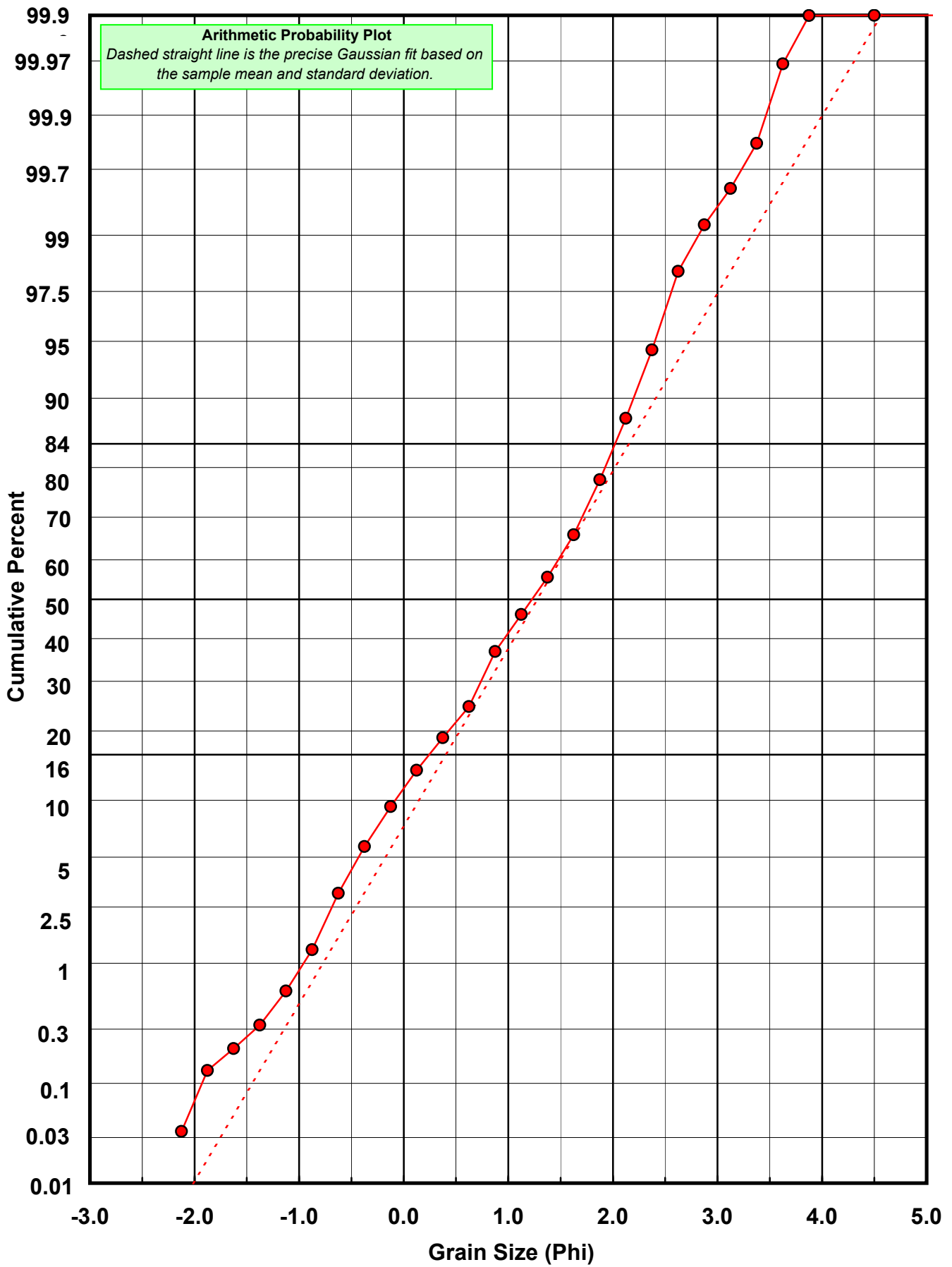
Statistical Results			
Mean:	1.2772	phi	(0.4126 mm)
Standard Dev:	0.8833	phi-units	(0.5421 mm)
Skewness:	-0.4038	dimensionless	
Kurtosis:	2.8292	dimensionless	
5th Moment:	-3.0570	dimensionless	
6th Moment:	14.1498	dimensionless	
RARD *	0.6916	dimensionless	
Median	1.2270	phi	(0.4272 mm)

* 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-16-SS

Total Carbonate Mass: 23.701 grams

% Carbonate: 30.2 %

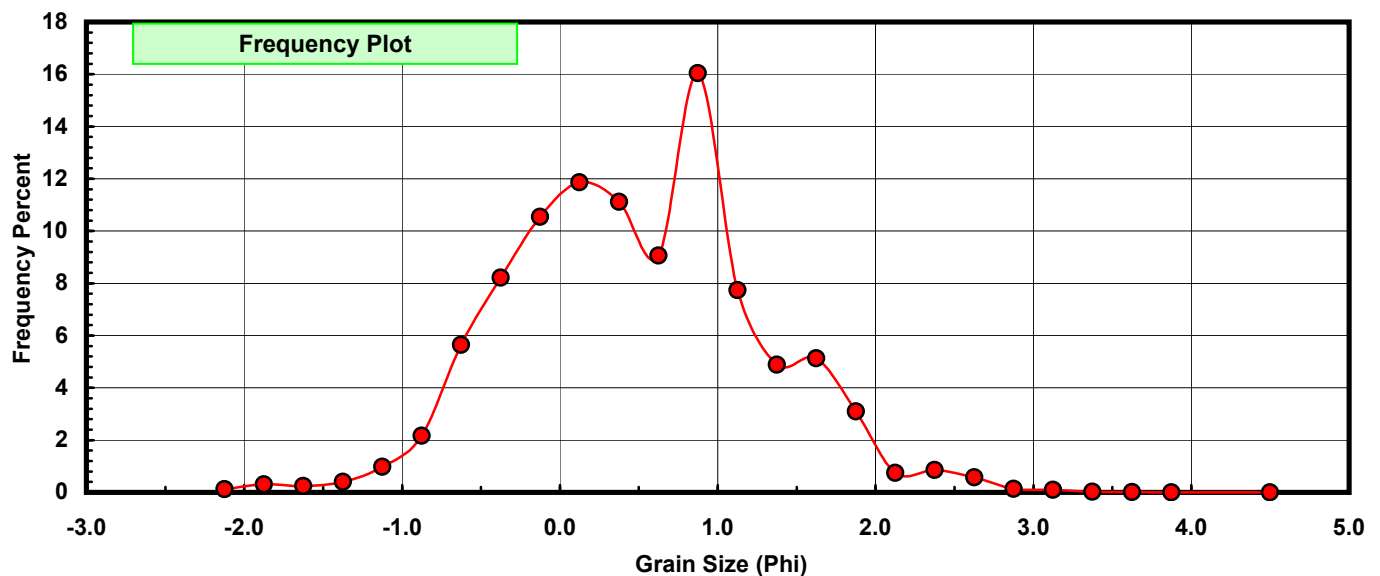
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.028	0.118	0.118
-1.75	-1.875	0.074	0.312	0.430
-1.50	-1.625	0.057	0.240	0.671
-1.25	-1.375	0.095	0.401	1.072
-1.00	-1.125	0.233	0.983	2.055
-0.75	-0.875	0.514	2.169	4.223
-0.50	-0.625	1.338	5.645	9.869
-0.25	-0.375	1.948	8.219	18.088
0.00	-0.125	2.498	10.540	28.627
0.25	0.125	2.811	11.860	40.488
0.50	0.375	2.636	11.122	51.610
0.75	0.625	2.149	9.067	60.677
1.00	0.875	3.801	16.037	76.714
1.25	1.125	1.833	7.734	84.448
1.50	1.375	1.158	4.886	89.334
1.75	1.625	1.215	5.126	94.460
2.00	1.875	0.735	3.101	97.561
2.25	2.125	0.176	0.743	98.304
2.50	2.375	0.203	0.857	99.160
2.75	2.625	0.135	0.570	99.730
3.00	2.875	0.033	0.139	99.869
3.25	3.125	0.024	0.101	99.970
3.50	3.375	0.005	0.021	99.992
3.75	3.625	0.002	0.008	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

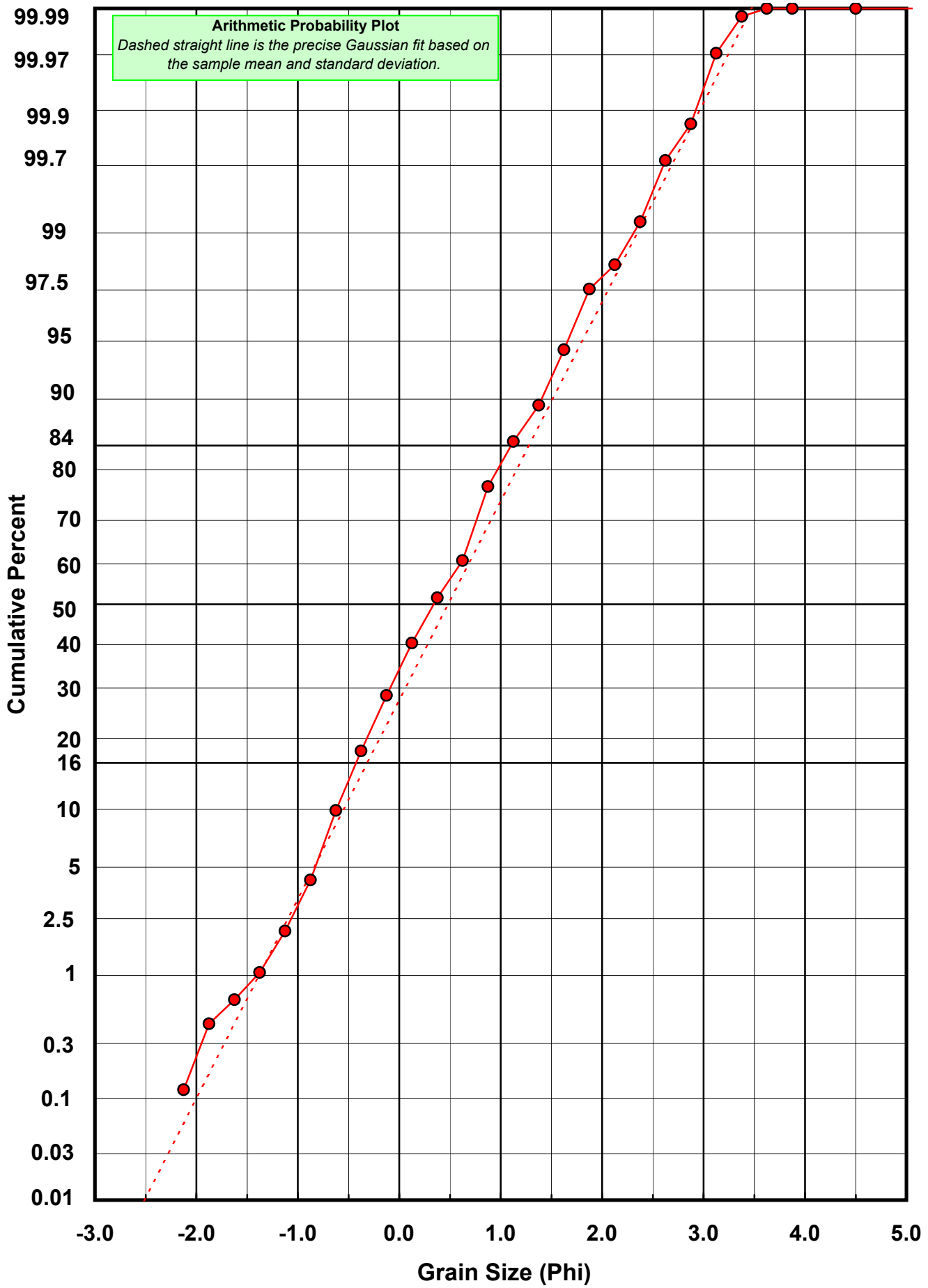
Statistical Results			
Mean:	0.4813	phi	(0.7163 mm)
Standard Dev:	0.8040	phi-units	(0.5727 mm)
Skewness:	0.1149	dimensionless	
Kurtosis:	2.9610	dimensionless	
5th Moment:	0.8181	dimensionless	
6th Moment:	15.4713	dimensionless	
RARD *	1.6705	dimensionless	
Median	0.3388	phi	(0.7907 mm)

* 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-16-SS

Total Digested Mass: 54.850 grams

% Silica: 69.8 %

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	0.040	0.073	0.073
-0.25	-0.375	0.152	0.277	0.350
0.00	-0.125	0.306	0.558	0.908
0.25	0.125	0.777	1.417	2.325
0.50	0.375	1.422	2.593	4.917
0.75	0.625	2.452	4.470	9.387
1.00	0.875	5.782	10.541	19.929
1.25	1.125	5.291	9.646	29.575
1.50	1.375	6.288	11.464	41.039
1.75	1.625	6.794	12.387	53.426
2.00	1.875	8.481	15.462	68.888
2.25	2.125	7.674	13.991	82.879
2.50	2.375	5.233	9.541	92.419
2.75	2.625	2.788	5.083	97.502
3.00	2.875	0.737	1.344	98.846
3.25	3.125	0.300	0.547	99.393
3.50	3.375	0.197	0.359	99.752
3.75	3.625	0.111	0.202	99.954
4.00	3.875	0.025	0.046	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.6211	phi	(0.3251 mm)
Standard Dev:	0.6720	phi-units	(0.6276 mm)
Skewness:	-0.2025	dimensionless	
Kurtosis:	2.8097	dimensionless	
5th Moment:	-1.1916	dimensionless	
6th Moment:	13.5936	dimensionless	
RARD *	0.4145	dimensionless	
Median	1.5559	phi	(0.3401 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	
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