

Onshore Grab Sample

Sample: SJ-01-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: St. Johns
Latitude: 30° 14' 43.7"
Longitude: 81° 22' 43.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 58.316 grams
Total Fines in Sample 0.028 grams
Total Percent Fines 0.05 %

Dry Sieving Summary

Total Sample Weight 58.369 grams
Total Digested Weight 56.444 grams
Total Carbonate Weight 1.925 grams
Total Silica % 96.70 %
Total Carbonate % 3.30 %
Carbonate/Silica Ratio 0.034

General Comments:

None

Description

Worked By: C. Fischler
Reviewed and Edited By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-01-BB

Total Sample Mass: 58.369 grams

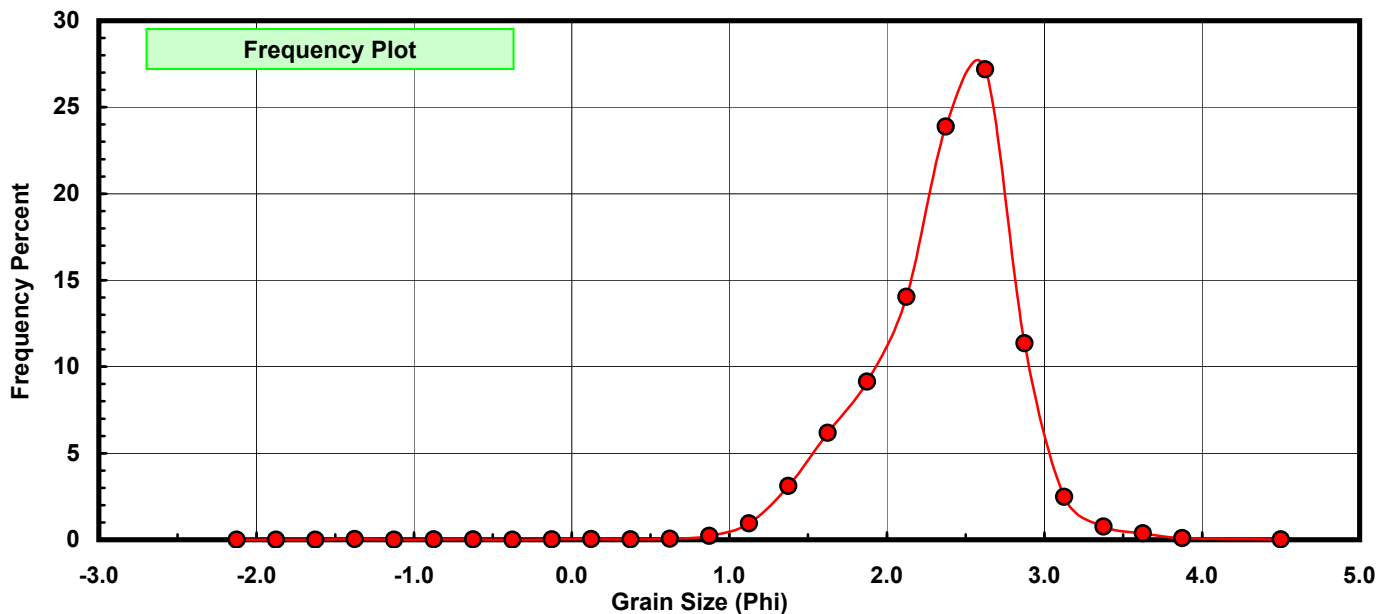
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.018	0.031	0.031
-1.00	-1.125	0.005	0.009	0.039
-0.75	-0.875	0.015	0.026	0.065
-0.50	-0.625	0.011	0.019	0.084
-0.25	-0.375	0.005	0.009	0.093
0.00	-0.125	0.008	0.014	0.106
0.25	0.125	0.021	0.036	0.142
0.50	0.375	0.011	0.019	0.161
0.75	0.625	0.030	0.051	0.212
1.00	0.875	0.131	0.224	0.437
1.25	1.125	0.548	0.939	1.376
1.50	1.375	1.812	3.104	4.480
1.75	1.625	3.604	6.175	10.655
2.00	1.875	5.335	9.140	19.795
2.25	2.125	8.199	14.047	33.842
2.50	2.375	13.938	23.879	57.721
2.75	2.625	15.865	27.181	84.901
3.00	2.875	6.631	11.360	96.262
3.25	3.125	1.451	2.486	98.748
3.50	3.375	0.443	0.759	99.507
3.75	3.625	0.213	0.365	99.872
4.00	3.875	0.059	0.101	99.973
5.00	4.500	0.016	0.027	100.000

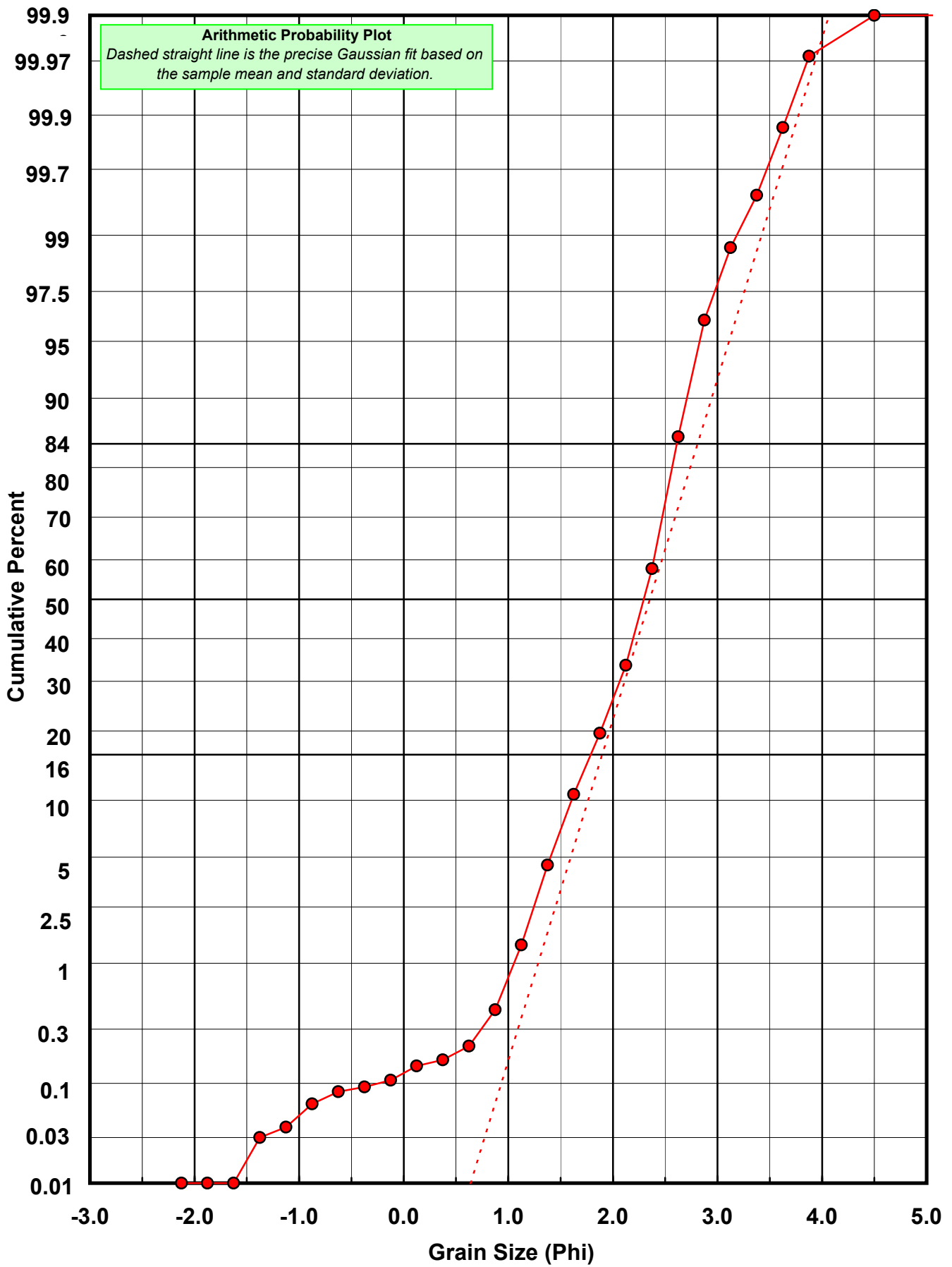
Statistical Results			
Mean:	2.3539	phi	(0.1956 mm)
Standard Dev:	0.4604	phi-units	(0.7268 mm)
Skewness:	-0.8325	dimensionless	
Kurtosis:	6.1642	dimensionless	
5th Moment:	-24.2069	dimensionless	
6th Moment:	182.1722	dimensionless	
RARD *	0.1956	dimensionless	
Median	2.2942	phi	(0.2039 mm)

* 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-01-BB

Total Carbonate Mass: 2.295 grams

% Carbonate: 3.3 %

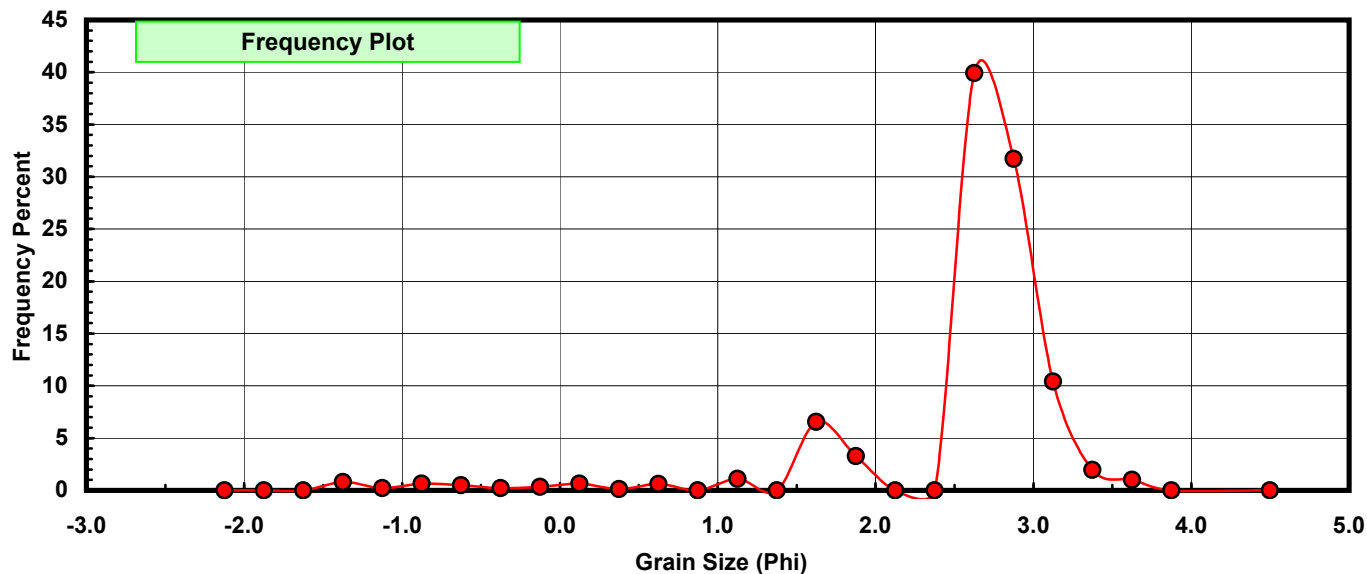
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.018	0.784	0.784
-1.00	-1.125	0.005	0.218	1.002
-0.75	-0.875	0.015	0.654	1.656
-0.50	-0.625	0.011	0.479	2.135
-0.25	-0.375	0.005	0.218	2.353
0.00	-0.125	0.008	0.349	2.702
0.25	0.125	0.015	0.654	3.355
0.50	0.375	0.003	0.131	3.486
0.75	0.625	0.014	0.610	4.096
1.00	0.875	0.000	0.000	4.096
1.25	1.125	0.025	1.089	5.185
1.50	1.375	0.000	0.000	5.185
1.75	1.625	0.150	6.536	11.721
2.00	1.875	0.075	3.268	14.989
2.25	2.125	0.000	0.000	14.989
2.50	2.375	0.000	0.000	14.989
2.75	2.625	0.916	39.913	54.902
3.00	2.875	0.728	31.721	86.623
3.25	3.125	0.239	10.414	97.037
3.50	3.375	0.045	1.961	98.998
3.75	3.625	0.023	1.002	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

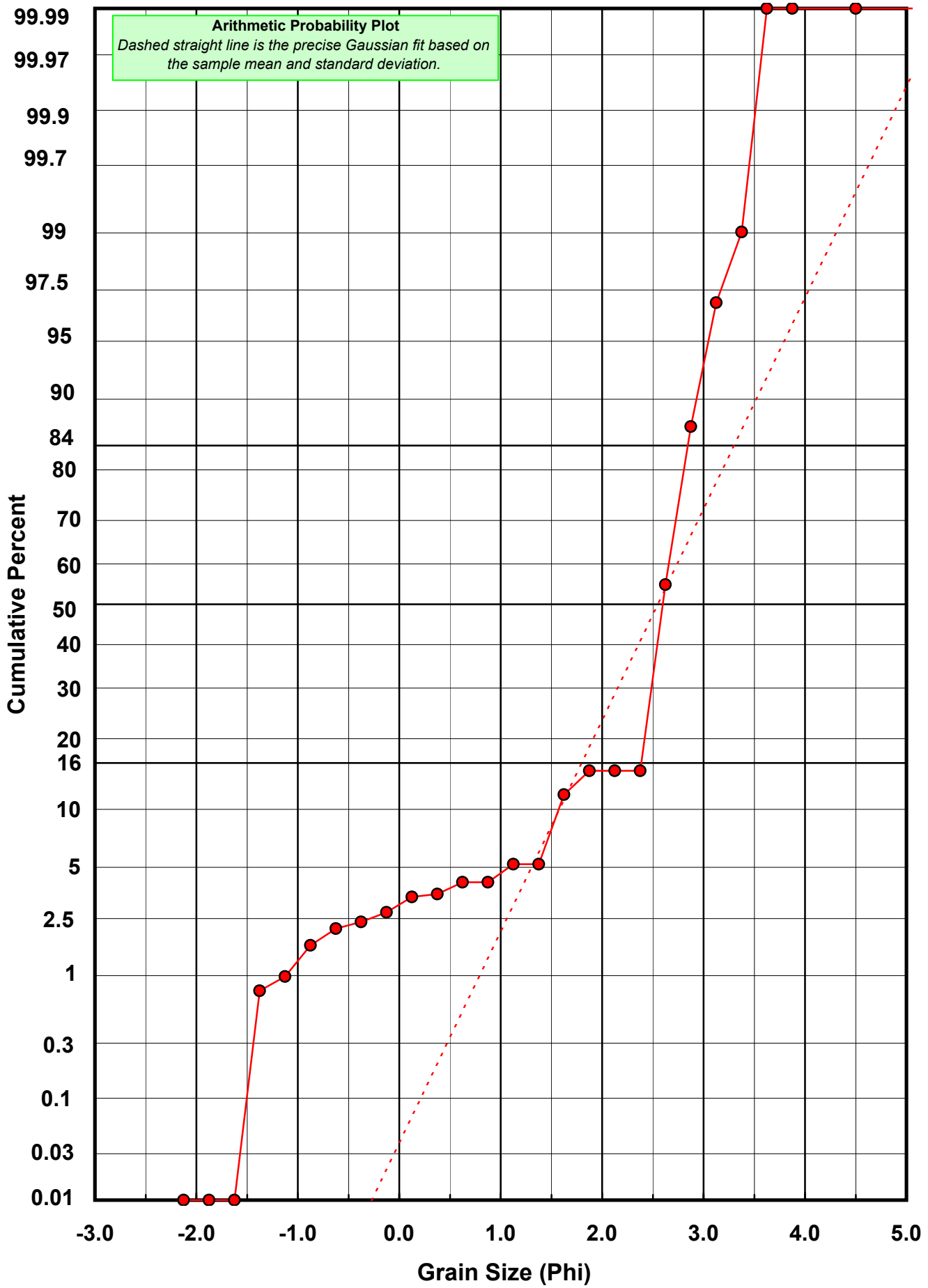
Statistical Results			
Mean:	2.5493	phi	(0.1708 mm)
Standard Dev:	0.7577	phi-units	(0.5914 mm)
Skewness:	-3.0060	dimensionless	
Kurtosis:	13.5189	dimensionless	
5th Moment:	-60.7801	dimensionless	
6th Moment:	285.5079	dimensionless	
RARD *	0.2972	dimensionless	
Median	2.5943	phi	(0.1656 mm)

* 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-01-BB

Total Digested Mass: 56.426 grams

% Silica: 96.7 %

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	0.006	0.011	0.011
0.50	0.375	0.008	0.014	0.025
0.75	0.625	0.016	0.028	0.053
1.00	0.875	0.137	0.243	0.296
1.25	1.125	0.523	0.927	1.223
1.50	1.375	1.825	3.234	4.457
1.75	1.625	3.454	6.121	10.578
2.00	1.875	5.260	9.322	19.900
2.25	2.125	8.531	15.119	35.019
2.50	2.375	13.954	24.730	59.749
2.75	2.625	14.949	26.493	86.242
3.00	2.875	5.903	10.461	96.704
3.25	3.125	1.212	2.148	98.852
3.50	3.375	0.398	0.705	99.557
3.75	3.625	0.190	0.337	99.894
4.00	3.875	0.060	0.106	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.3436	phi	(0.197 mm)
Standard Dev:	0.4398	phi-units	(0.7373 mm)
Skewness:	-0.4899	dimensionless	
Kurtosis:	3.5240	dimensionless	
5th Moment:	-3.5380	dimensionless	
6th Moment:	23.0242	dimensionless	
RARD *	0.1876	dimensionless	
Median	2.2764	phi	(0.2064 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)
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