

Onshore Grab Sample

Sample: NA-13-B
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Nassau
Latitude: 30° 32' 12.5"
Longitude: 81° 26' 18.8"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	57.729 grams
Total Fines in Sample	0.171 grams
Total Percent Fines	0.30 %

Dry Sieving Summary

Total Sample Weight	57.616 grams
Total Digested Weight	39.797 grams
Total Carbonate Weight	17.819 grams
Total Silica %	69.07 %
Total Carbonate %	30.93 %
Carbonate/Silica Ratio	0.448

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-13-B

Total Sample Mass: 57.616 grams

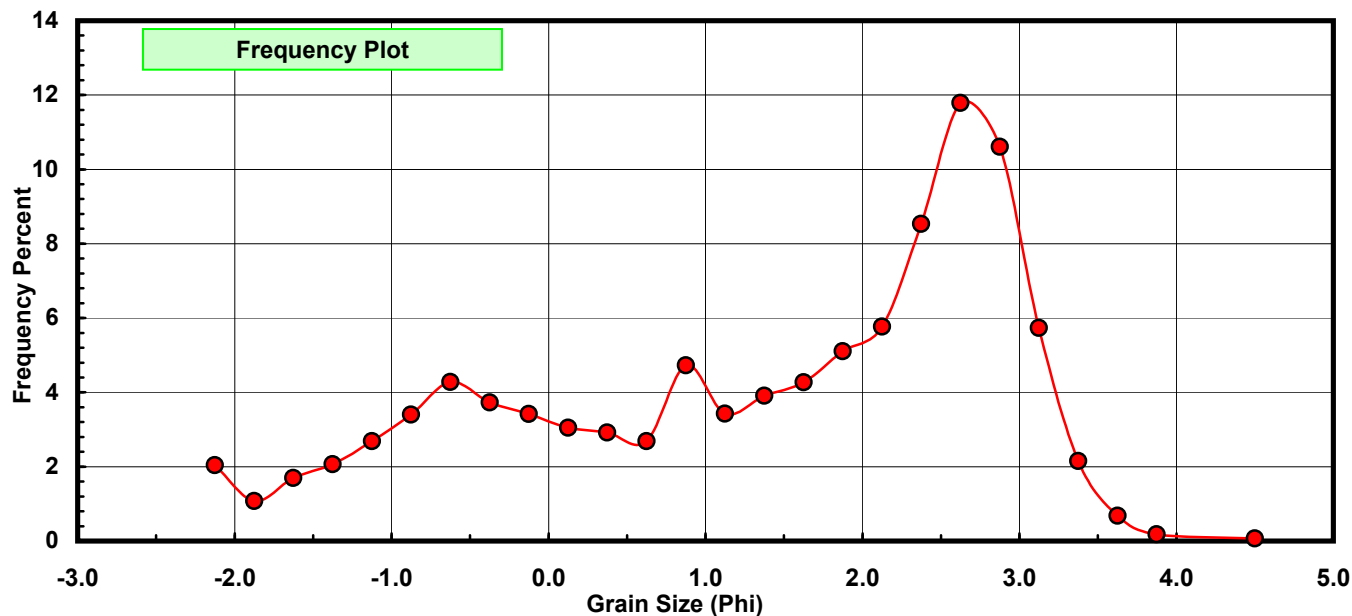
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	1.175	2.039	2.039
-1.75	-1.875	0.619	1.074	3.114
-1.50	-1.625	0.977	1.696	4.809
-1.25	-1.375	1.193	2.071	6.880
-1.00	-1.125	1.549	2.688	9.569
-0.75	-0.875	1.958	3.398	12.967
-0.50	-0.625	2.465	4.278	17.245
-0.25	-0.375	2.147	3.726	20.972
0.00	-0.125	1.968	3.416	24.387
0.25	0.125	1.757	3.050	27.437
0.50	0.375	1.680	2.916	30.353
0.75	0.625	1.546	2.683	33.036
1.00	0.875	2.724	4.728	37.764
1.25	1.125	1.975	3.428	41.192
1.50	1.375	2.254	3.912	45.104
1.75	1.625	2.463	4.275	49.379
2.00	1.875	2.944	5.110	54.488
2.25	2.125	3.323	5.767	60.256
2.50	2.375	4.918	8.536	68.792
2.75	2.625	6.790	11.785	80.577
3.00	2.875	6.113	10.610	91.186
3.25	3.125	3.302	5.731	96.918
3.50	3.375	1.241	2.154	99.071
3.75	3.625	0.391	0.679	99.750
4.00	3.875	0.104	0.181	99.931
5.00	4.500	0.040	0.069	100.000

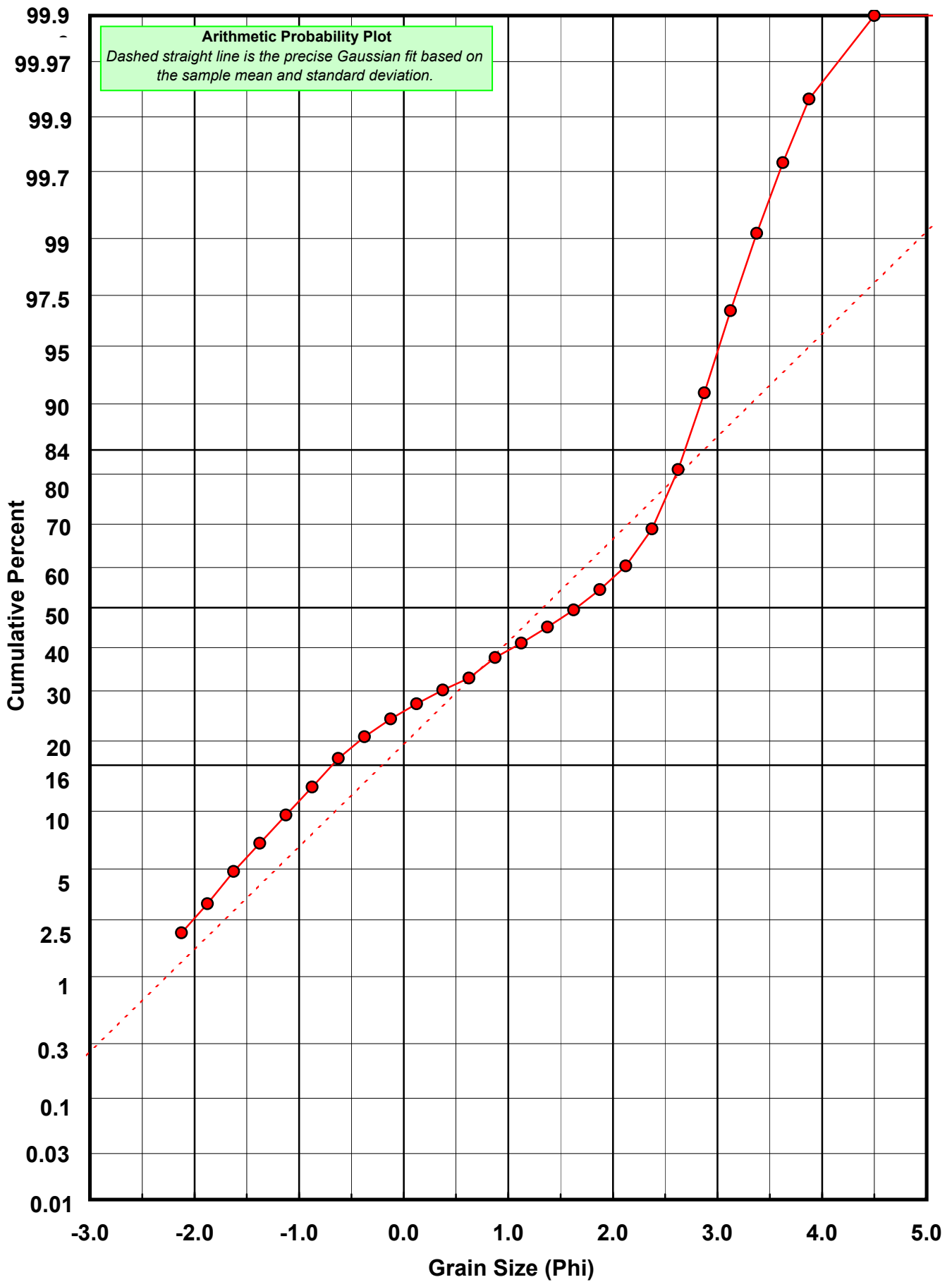
Statistical Results			
Mean:	1.3322	phi	(0.3972 mm)
Standard Dev:	1.5461	phi-units	(0.3424 mm)
Skewness:	-0.5755	dimensionless	
Kurtosis:	2.1018	dimensionless	
5th Moment:	-2.6154	dimensionless	
6th Moment:	6.5104	dimensionless	
RARD *	1.1605	dimensionless	
Median	1.6554	phi	(0.3174 mm)

* 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: NA-13-B

Total Carbonate Mass: 17.974 grams

% Carbonate: 30.9 %

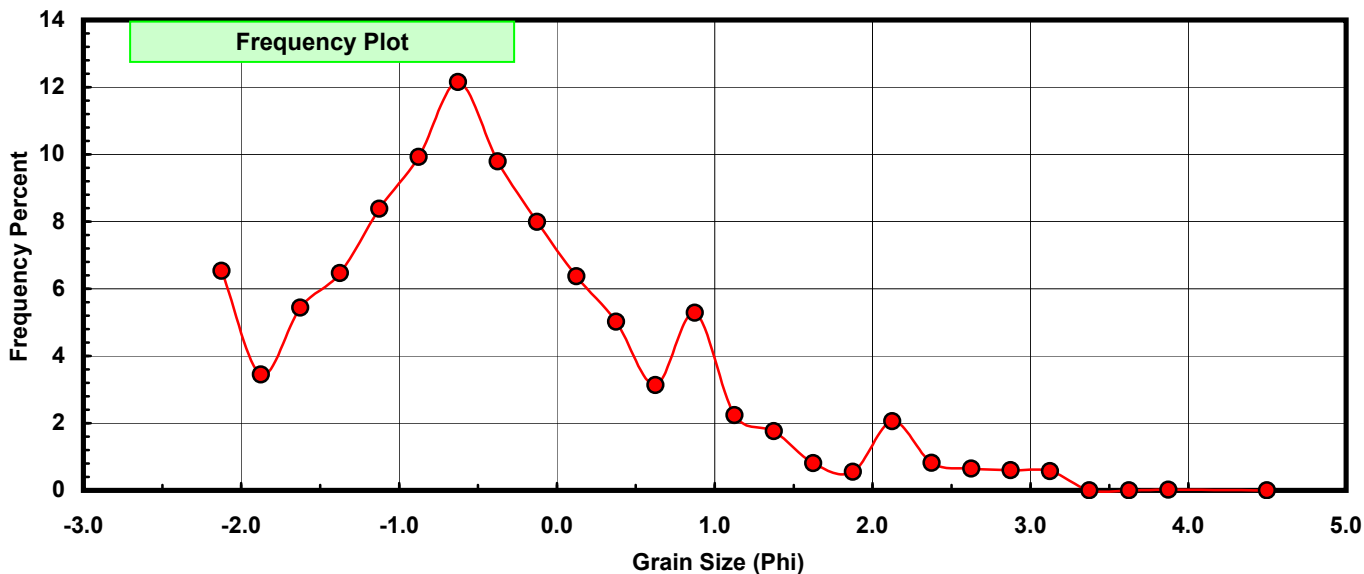
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	1.175	6.537	6.537
-1.75	-1.875	0.619	3.444	9.981
-1.50	-1.625	0.977	5.436	15.417
-1.25	-1.375	1.163	6.470	21.887
-1.00	-1.125	1.507	8.384	30.272
-0.75	-0.875	1.783	9.920	40.191
-0.50	-0.625	2.184	12.151	52.342
-0.25	-0.375	1.760	9.792	62.134
0.00	-0.125	1.437	7.995	70.129
0.25	0.125	1.145	6.370	76.499
0.50	0.375	0.902	5.018	81.518
0.75	0.625	0.563	3.132	84.650
1.00	0.875	0.950	5.285	89.935
1.25	1.125	0.402	2.237	92.172
1.50	1.375	0.316	1.758	93.930
1.75	1.625	0.145	0.807	94.737
2.00	1.875	0.099	0.551	95.288
2.25	2.125	0.370	2.059	97.346
2.50	2.375	0.147	0.818	98.164
2.75	2.625	0.116	0.645	98.809
3.00	2.875	0.108	0.601	99.410
3.25	3.125	0.102	0.567	99.978
3.50	3.375	0.000	0.000	99.978
3.75	3.625	0.000	0.000	99.978
4.00	3.875	0.004	0.022	100.000
5.00	4.500	0.000	0.000	100.000

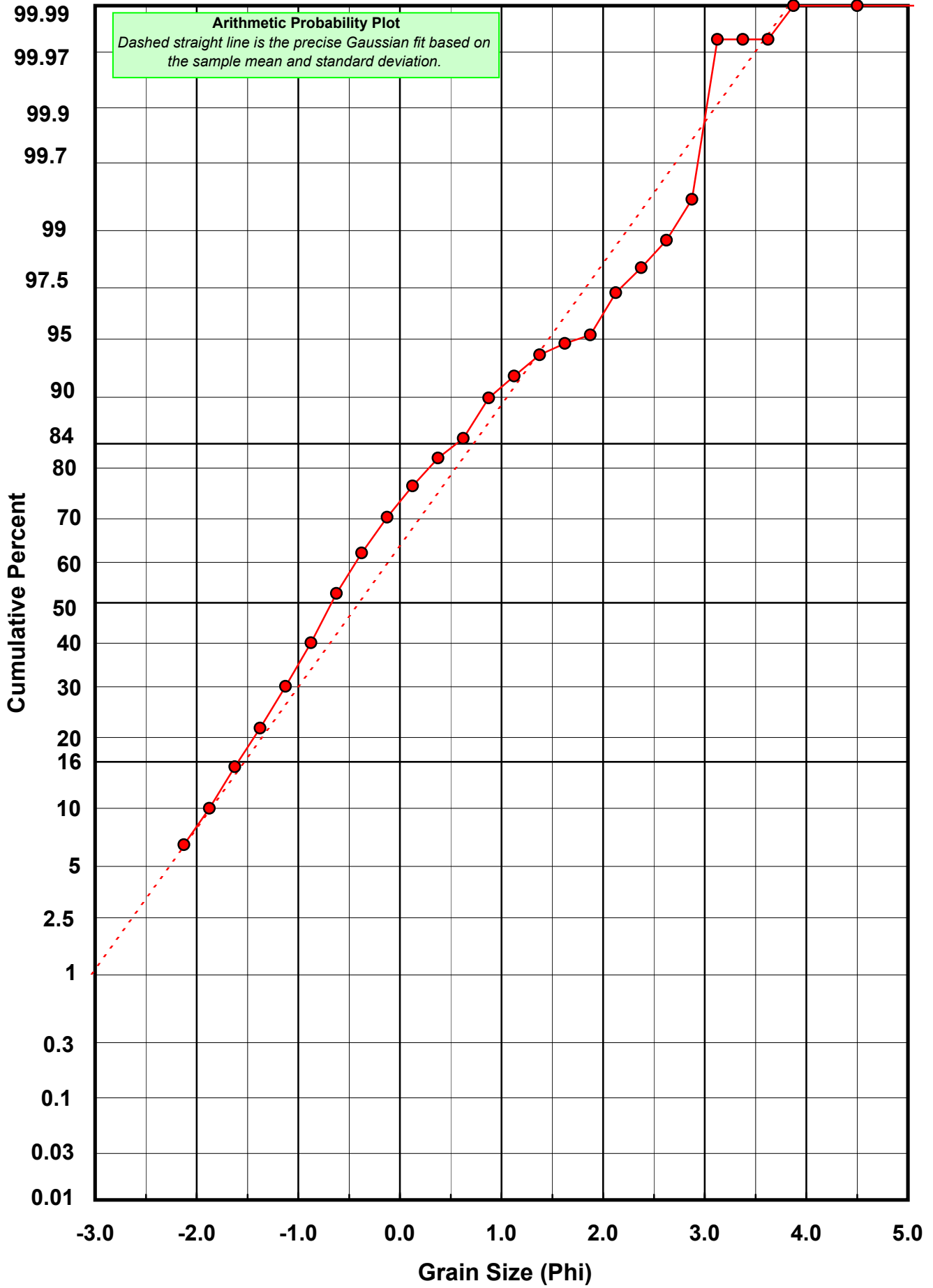
Statistical Results			
Mean:	-0.4032	phi	(1.3224 mm)
Standard Dev:	1.1362	phi-units	(0.455 mm)
Skewness:	0.7297	dimensionless	
Kurtosis:	3.3326	dimensionless	
5th Moment:	5.9941	dimensionless	
6th Moment:	19.0193	dimensionless	
RARD *	2.8178	dimensionless	
Median	-0.6732	phi	(1.5946 mm)

* 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: NA-13-B

Total Digested Mass: 39.768 grams

% Silica: 69.1 %

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	0.030	0.075	0.075
-1.00	-1.125	0.042	0.106	0.181
-0.75	-0.875	0.175	0.440	0.621
-0.50	-0.625	0.281	0.707	1.328
-0.25	-0.375	0.387	0.973	2.301
0.00	-0.125	0.531	1.335	3.636
0.25	0.125	0.612	1.539	5.175
0.50	0.375	0.778	1.956	7.131
0.75	0.625	0.983	2.472	9.603
1.00	0.875	1.774	4.461	14.064
1.25	1.125	1.573	3.955	18.020
1.50	1.375	1.938	4.873	22.893
1.75	1.625	2.318	5.829	28.722
2.00	1.875	2.845	7.154	35.876
2.25	2.125	2.953	7.426	43.301
2.50	2.375	4.771	11.997	55.298
2.75	2.625	6.674	16.782	72.081
3.00	2.875	6.005	15.100	87.181
3.25	3.125	3.200	8.047	95.227
3.50	3.375	1.354	3.405	98.632
3.75	3.625	0.444	1.116	99.749
4.00	3.875	0.100	0.251	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.1223	phi	(0.2297 mm)
Standard Dev:	0.9477	phi-units	(0.5185 mm)
Skewness:	-0.9807	dimensionless	
Kurtosis:	3.4720	dimensionless	
5th Moment:	-7.3559	dimensionless	
6th Moment:	21.8075	dimensionless	
RARD *	0.4465	dimensionless	
Median	2.2646	phi	(0.2081 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)

