

Onshore Grab Sample

Sample: CR-10-BB
Sample Taken By: D. Phelps
Sample Collected On: 11/5/09
Splits? N/A

County: Collier
Latitude: 26° 13' 14.8"
Longitude: 81° 49' 5.3"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 54.852 grams
Total Fines in Sample 0.191 grams
Total Percent Fines 0.35 %

Dry Sieving Summary

Total Sample Weight 54.776 grams
Total Digested Weight 20.222 grams
Total Carbonate Weight 34.554 grams
Total Silica % 36.92 %
Total Carbonate % 63.08 %
Carbonate/Silica Ratio 1.709

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CR-10-BB

Total Sample Mass: 54.776 grams

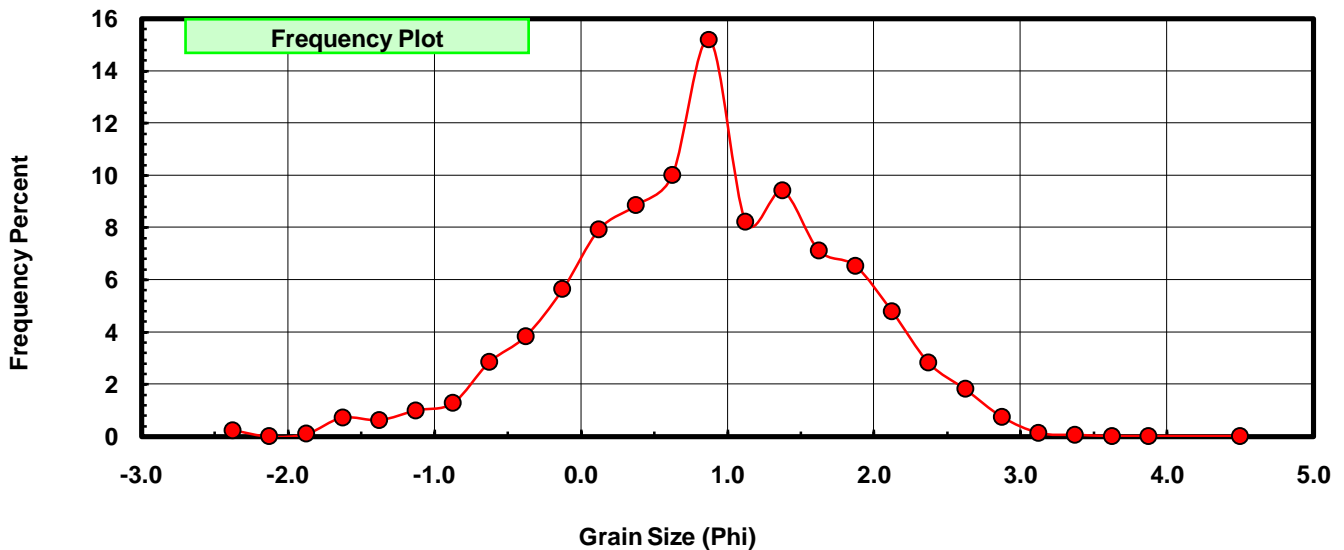
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.131	0.239	0.239
-2.00	-2.125	0.000	0.000	0.239
-1.75	-1.875	0.059	0.108	0.347
-1.50	-1.625	0.398	0.727	1.073
-1.25	-1.375	0.346	0.632	1.705
-1.00	-1.125	0.548	1.000	2.706
-0.75	-0.875	0.699	1.276	3.982
-0.50	-0.625	1.560	2.848	6.830
-0.25	-0.375	2.101	3.836	10.665
0.00	-0.125	3.091	5.643	16.308
0.25	0.125	4.344	7.930	24.239
0.50	0.375	4.848	8.851	33.089
0.75	0.625	5.476	9.997	43.086
1.00	0.875	8.332	15.211	58.297
1.25	1.125	4.497	8.210	66.507
1.50	1.375	5.157	9.415	75.922
1.75	1.625	3.901	7.122	83.044
2.00	1.875	3.579	6.534	89.578
2.25	2.125	2.619	4.781	94.359
2.50	2.375	1.549	2.828	97.187
2.75	2.625	0.995	1.816	99.003
3.00	2.875	0.409	0.747	99.750
3.25	3.125	0.077	0.141	99.890
3.50	3.375	0.035	0.064	99.954
3.75	3.625	0.010	0.018	99.973
4.00	3.875	0.008	0.015	99.987
5.00	4.50	0.007	0.013	100.000

Statistical Results			
Mean:	0.8551	phi	(0.5528 mm)
Standard Dev:	0.9119	phi-units	(0.5315 mm)
Skewness:	-0.2273	dimensionless	
Kurtosis:	3.1130	dimensionless	
5th Moment:	-2.5371	dimensionless	
6th Moment:	17.0543	dimensionless	
RARD *	1.0663	dimensionless	
Median	0.7386	phi	(0.5993 mm)

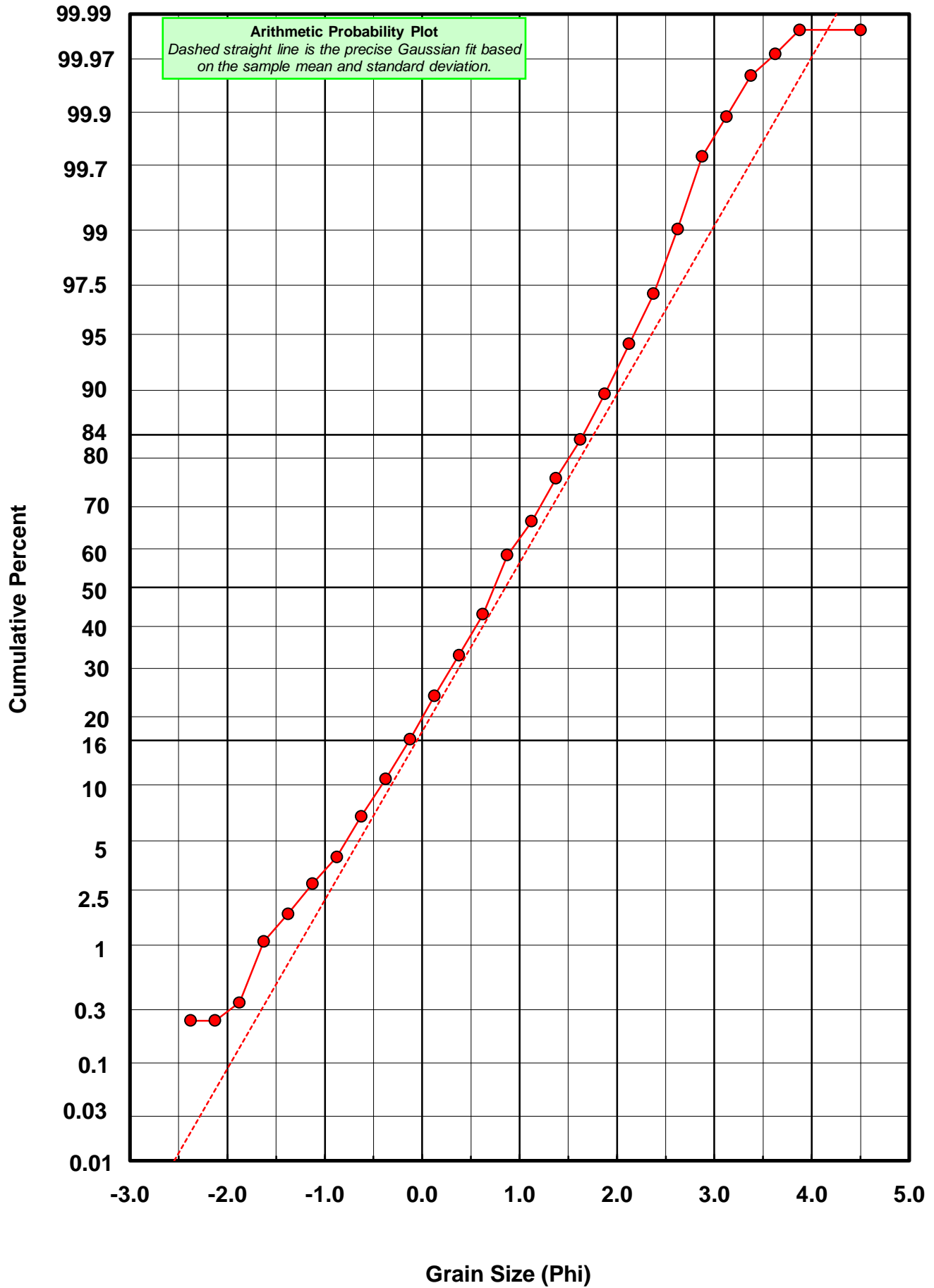
* RARD = reciprocal absolute relative dispersion (see below)

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 Basille et al. 2002	
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)



CR-10-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: CR-10-BB

Total Carbonate Mass: 34.559 grams

% Carbonate: 63.1 %

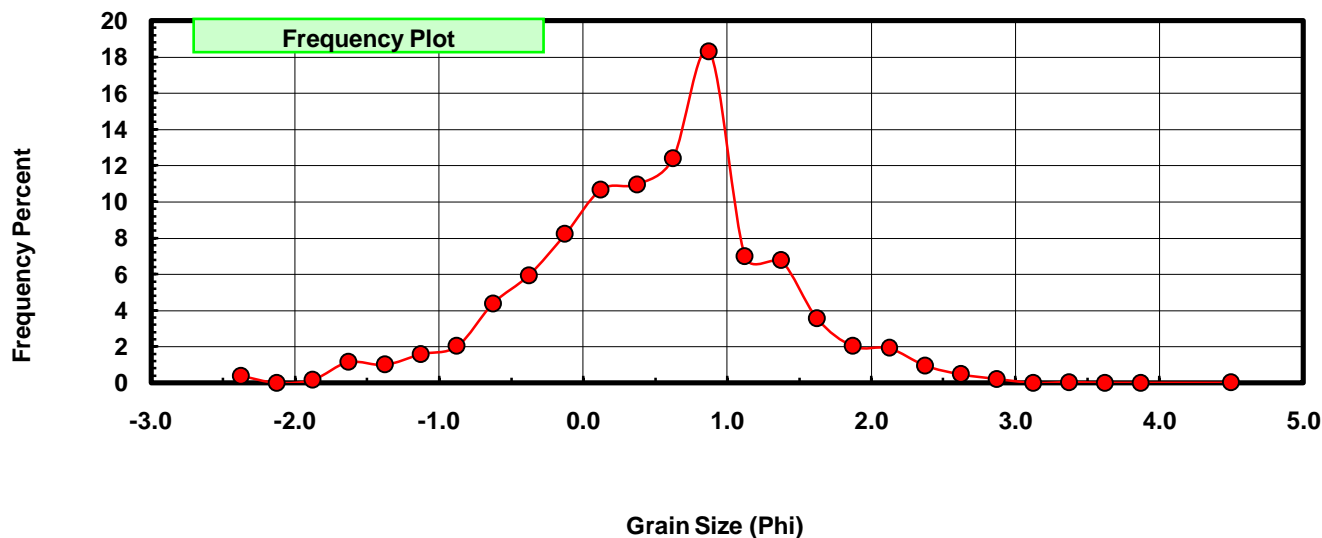
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.131	0.379	0.379
-2.00	-2.125	0.000	0.000	0.379
-1.75	-1.875	0.059	0.171	0.550
-1.50	-1.625	0.398	1.152	1.701
-1.25	-1.375	0.346	1.001	2.703
-1.00	-1.125	0.548	1.586	4.288
-0.75	-0.875	0.699	2.023	6.311
-0.50	-0.625	1.512	4.375	10.686
-0.25	-0.375	2.047	5.923	16.609
0.00	-0.125	2.836	8.206	24.816
0.25	0.125	3.688	10.672	35.487
0.50	0.375	3.785	10.952	46.439
0.75	0.625	4.279	12.382	58.821
1.00	0.875	6.322	18.293	77.114
1.25	1.125	2.409	6.971	84.085
1.50	1.375	2.337	6.762	90.848
1.75	1.625	1.229	3.556	94.404
2.00	1.875	0.699	2.023	96.426
2.25	2.125	0.663	1.918	98.345
2.50	2.375	0.327	0.946	99.291
2.75	2.625	0.160	0.463	99.754
3.00	2.875	0.070	0.203	99.957
3.25	3.125	0.000	0.000	99.957
3.50	3.375	0.012	0.035	99.991
3.75	3.625	0.000	0.000	99.991
4.00	3.875	0.000	0.000	99.991
5.00	4.500	0.003	0.009	100.000

Statistical Results			
Mean:	0.5017	phi	(0.7063 mm)
Standard Dev:	0.8295	phi-units	(0.5627 mm)
Skewness:	-0.2452	dimensionless	
Kurtosis:	3.5099	dimensionless	
5th Moment:	-2.2596	dimensionless	
6th Moment:	21.6509	dimensionless	
RARD *	1.6534	dimensionless	
Median	0.4469	phi	(0.7336 mm)

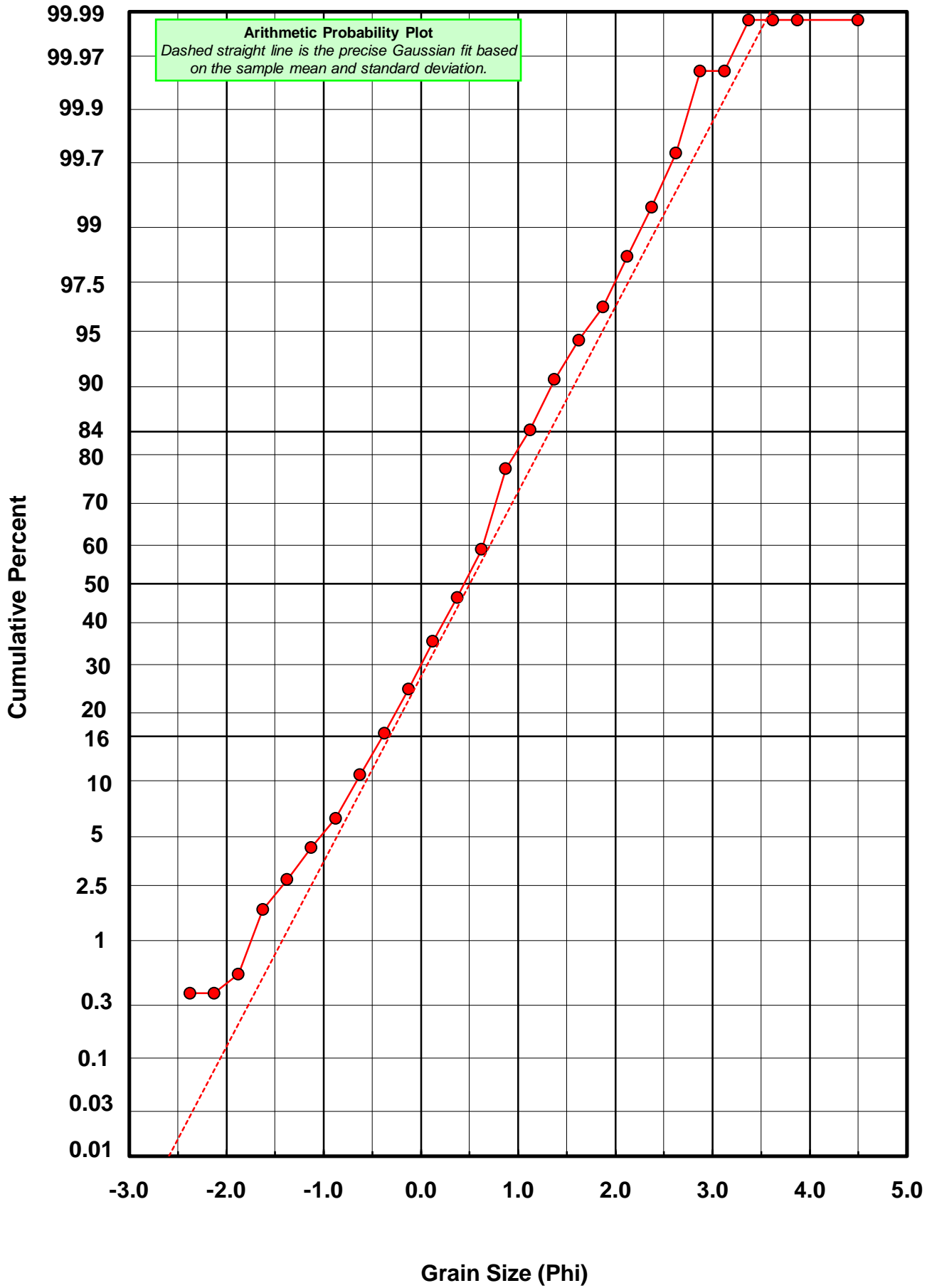
* RARD = reciprocal absolute relative dispersion (see below)

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 Basille et al. 2002	
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)



CR-10-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CR-10-BB

Total Digested Mass: 20.222 grams

% Silica: 36.9 %

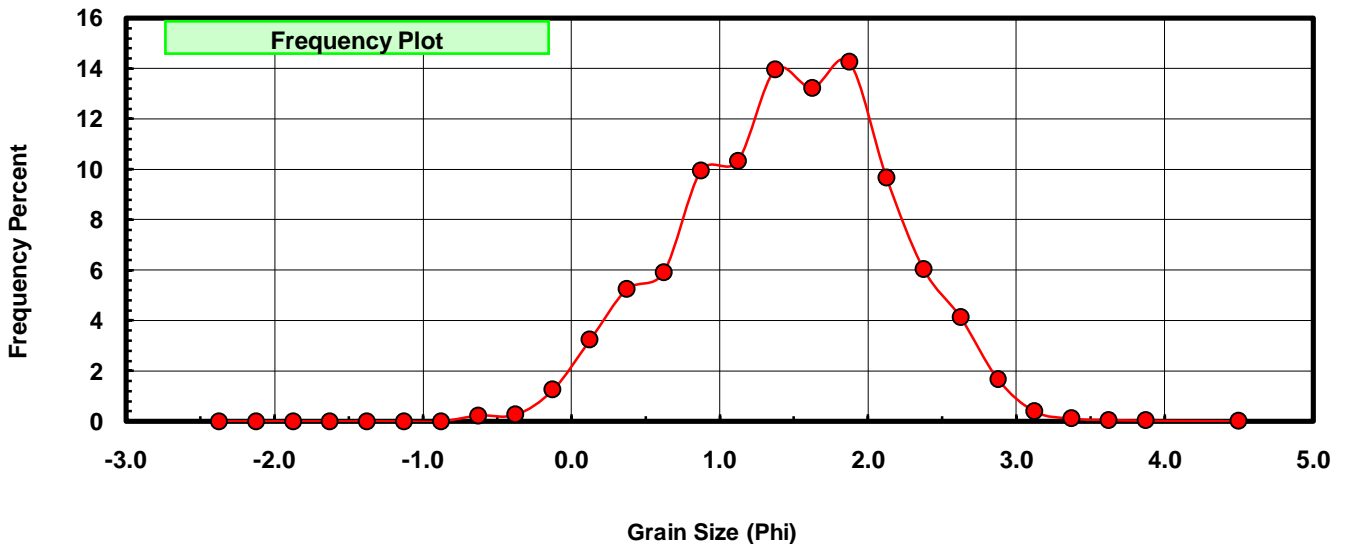
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.048	0.237	0.237
-0.25	-0.375	0.054	0.267	0.504
0.00	-0.125	0.255	1.261	1.765
0.25	0.125	0.656	3.244	5.009
0.50	0.375	1.063	5.257	10.266
0.75	0.625	1.197	5.919	16.185
1.00	0.875	2.010	9.940	26.125
1.25	1.125	2.088	10.325	36.450
1.50	1.375	2.820	13.945	50.396
1.75	1.625	2.672	13.213	63.609
2.00	1.875	2.880	14.242	77.851
2.25	2.125	1.956	9.673	87.523
2.50	2.375	1.222	6.043	93.566
2.75	2.625	0.835	4.129	97.696
3.00	2.875	0.339	1.676	99.372
3.25	3.125	0.080	0.396	99.768
3.50	3.375	0.023	0.114	99.881
3.75	3.625	0.012	0.059	99.941
4.00	3.875	0.008	0.040	99.980
5.00	4.500	0.004	0.020	100.000

Statistical Results			
Mean:	1.4598	phi	(0.3636 mm)
Standard Dev:	0.7192	phi-units	(0.6074 mm)
Skewness:	-0.1381	dimensionless	
Kurtosis:	2.6349	dimensionless	
5th Moment:	-0.5110	dimensionless	
6th Moment:	11.4661	dimensionless	
RARD *	0.4927	dimensionless	
Median	1.3679	phi	(0.3875 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 Basille et al. 2002	
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)



CR-10-BB

