

Onshore Grab Sample

Sample: MT-11
Sample Taken By: D. Phelps
Sample Collected On: 12/17/08
Splits? N/A

County: Martin
Latitude: 27° 08' 43.5"
Longitude: 80° 08' 1.7"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	71.632 grams
Total Fines in Sample	0.315 grams
Total Percent Fines	0.44 %

Dry Sieving Summary

Total Sample Weight	71.288 grams
Total Digested Weight	31.542 grams
Total Carbonate Weight	39.746 grams
Total Silica %	44.25 %
Total Carbonate %	55.75 %
Carbonate/Silica Ratio	1.260

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MT-11

Total Sample Mass: 71.288 grams

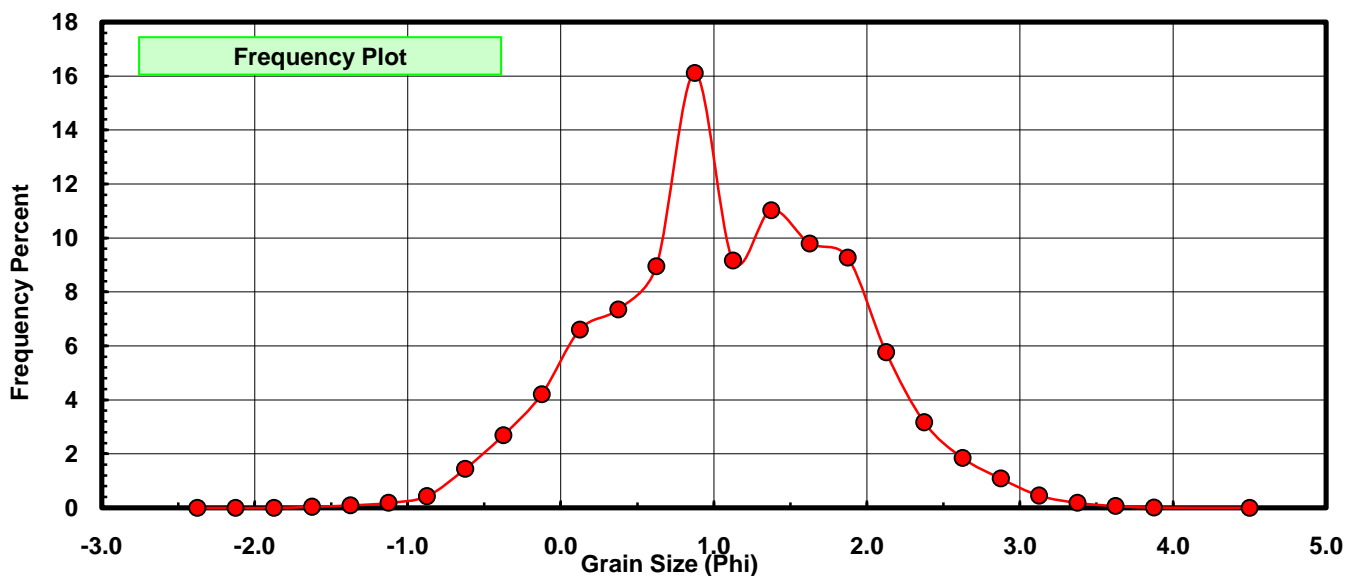
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.029	0.041	0.041
-1.25	-1.375	0.066	0.093	0.133
-1.00	-1.125	0.132	0.185	0.318
-0.75	-0.875	0.308	0.432	0.750
-0.50	-0.625	1.030	1.445	2.195
-0.25	-0.375	1.921	2.695	4.890
0.00	-0.125	2.999	4.207	9.097
0.25	0.125	4.707	6.603	15.700
0.50	0.375	5.243	7.355	23.054
0.75	0.625	6.384	8.955	32.010
1.00	0.875	11.485	16.111	48.120
1.25	1.125	6.536	9.168	57.289
1.50	1.375	7.864	11.031	68.320
1.75	1.625	6.984	9.797	78.117
2.00	1.875	6.613	9.276	87.393
2.25	2.125	4.112	5.768	93.162
2.50	2.375	2.261	3.172	96.333
2.75	2.625	1.318	1.849	98.182
3.00	2.875	0.775	1.087	99.269
3.25	3.125	0.325	0.456	99.725
3.50	3.375	0.135	0.189	99.914
3.75	3.625	0.049	0.069	99.983
4.00	3.875	0.009	0.013	99.996
5.00	4.50	0.003	0.004	100.000

Statistical Results			
Mean:	1.0900	phi	(0.4698 mm)
Standard Dev:	0.8082	phi-units	(0.5711 mm)
Skewness:	-0.0113	dimensionless	
Kurtosis:	2.7771	dimensionless	
5th Moment:	0.0222	dimensionless	
6th Moment:	12.3872	dimensionless	
RARD *	0.7414	dimensionless	
Median	0.9263	phi	(0.5262 mm)

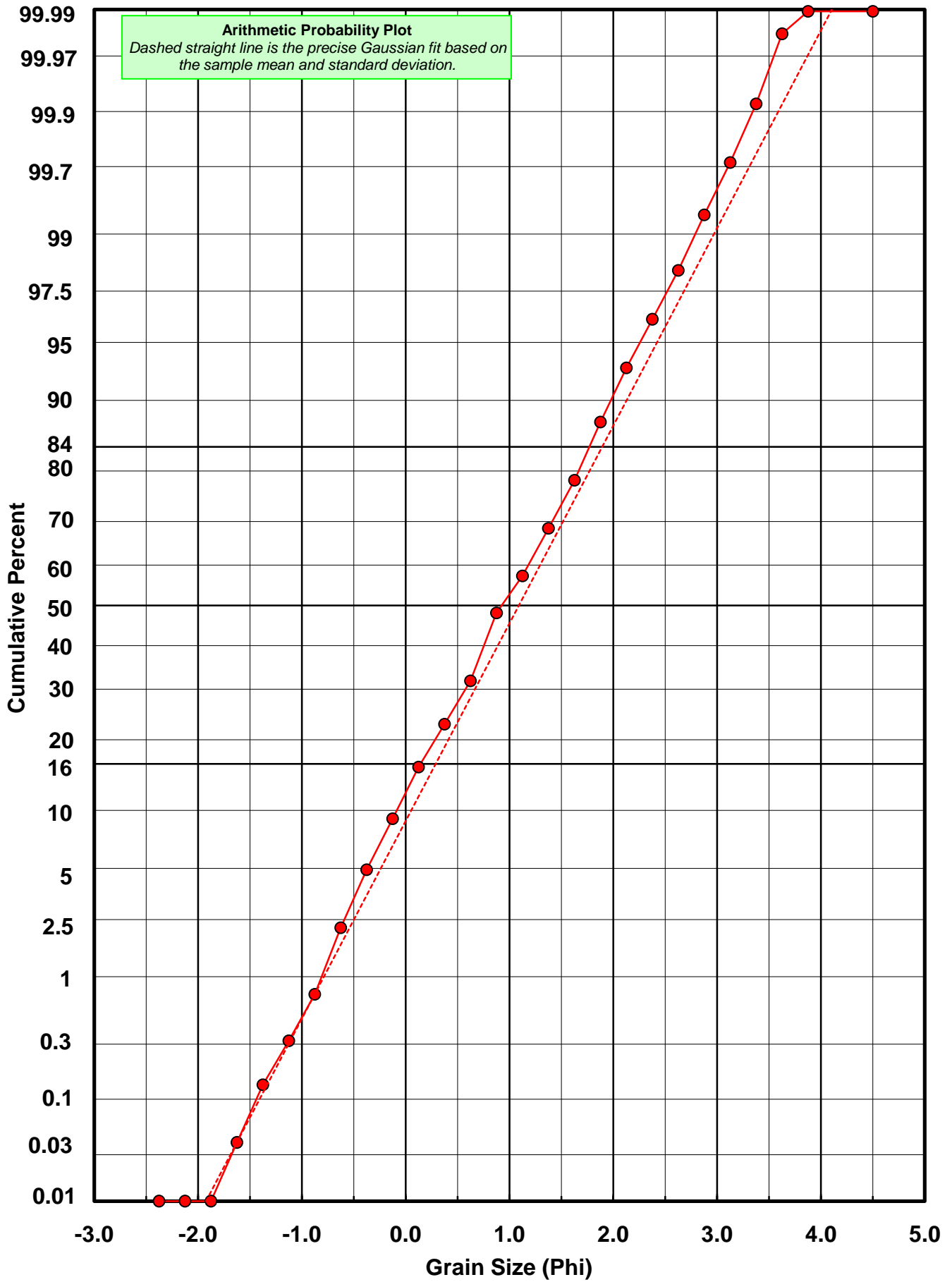
* RARD = reciprocal absolute relative dispersion (see below)

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)



MT-11



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: MT-11

Total Carbonate Mass: 39.788 grams

% Carbonate: 55.8 %

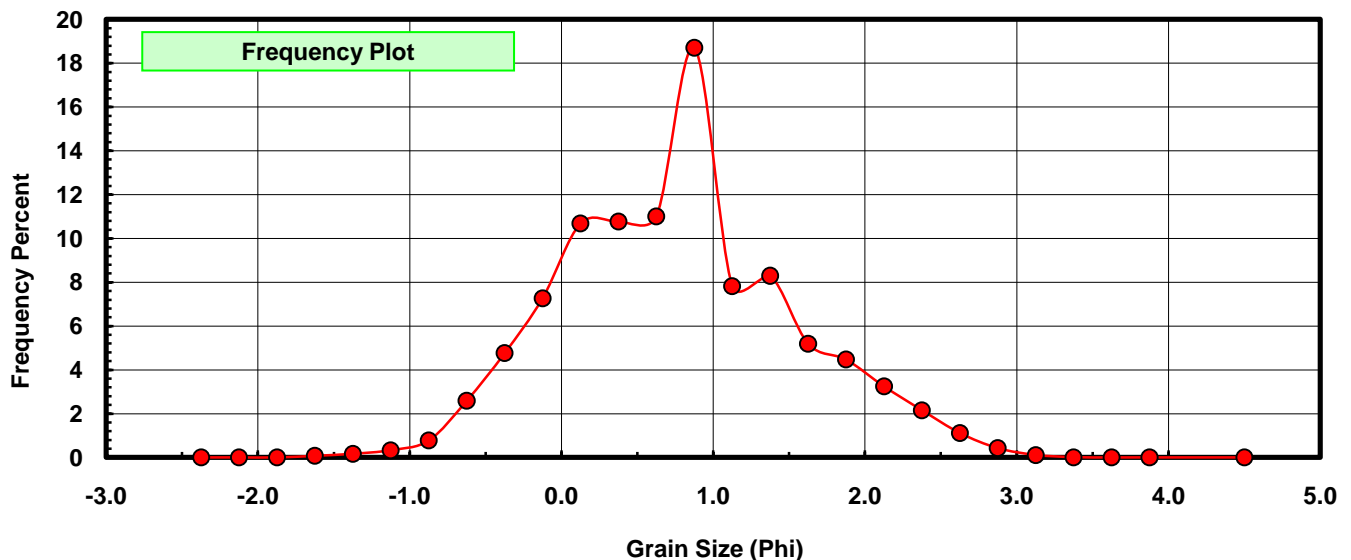
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.029	0.073	0.073
-1.25	-1.375	0.066	0.166	0.239
-1.00	-1.125	0.132	0.332	0.571
-0.75	-0.875	0.308	0.774	1.345
-0.50	-0.625	1.030	2.589	3.933
-0.25	-0.375	1.895	4.763	8.696
0.00	-0.125	2.894	7.274	15.970
0.25	0.125	4.250	10.682	26.651
0.50	0.375	4.288	10.777	37.428
0.75	0.625	4.381	11.011	48.439
1.00	0.875	7.443	18.707	67.146
1.25	1.125	3.112	7.821	74.967
1.50	1.375	3.301	8.296	83.264
1.75	1.625	2.067	5.195	88.459
2.00	1.875	1.779	4.471	92.930
2.25	2.125	1.291	3.245	96.175
2.50	2.375	0.858	2.156	98.331
2.75	2.625	0.444	1.116	99.447
3.00	2.875	0.169	0.425	99.872
3.25	3.125	0.046	0.116	99.987
3.50	3.375	0.005	0.013	100.000
3.75	3.625	0.000	0.000	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:	0.7652	phi	(0.5884 mm)
Standard Dev:	0.7804	phi-units	(0.5822 mm)
Skewness:	0.2342	dimensionless	
Kurtosis:	2.8327	dimensionless	
5th Moment:	1.5385	dimensionless	
6th Moment:	12.2484	dimensionless	
RARD *	1.0199	dimensionless	
Median	0.6459	phi	(0.6391 mm)

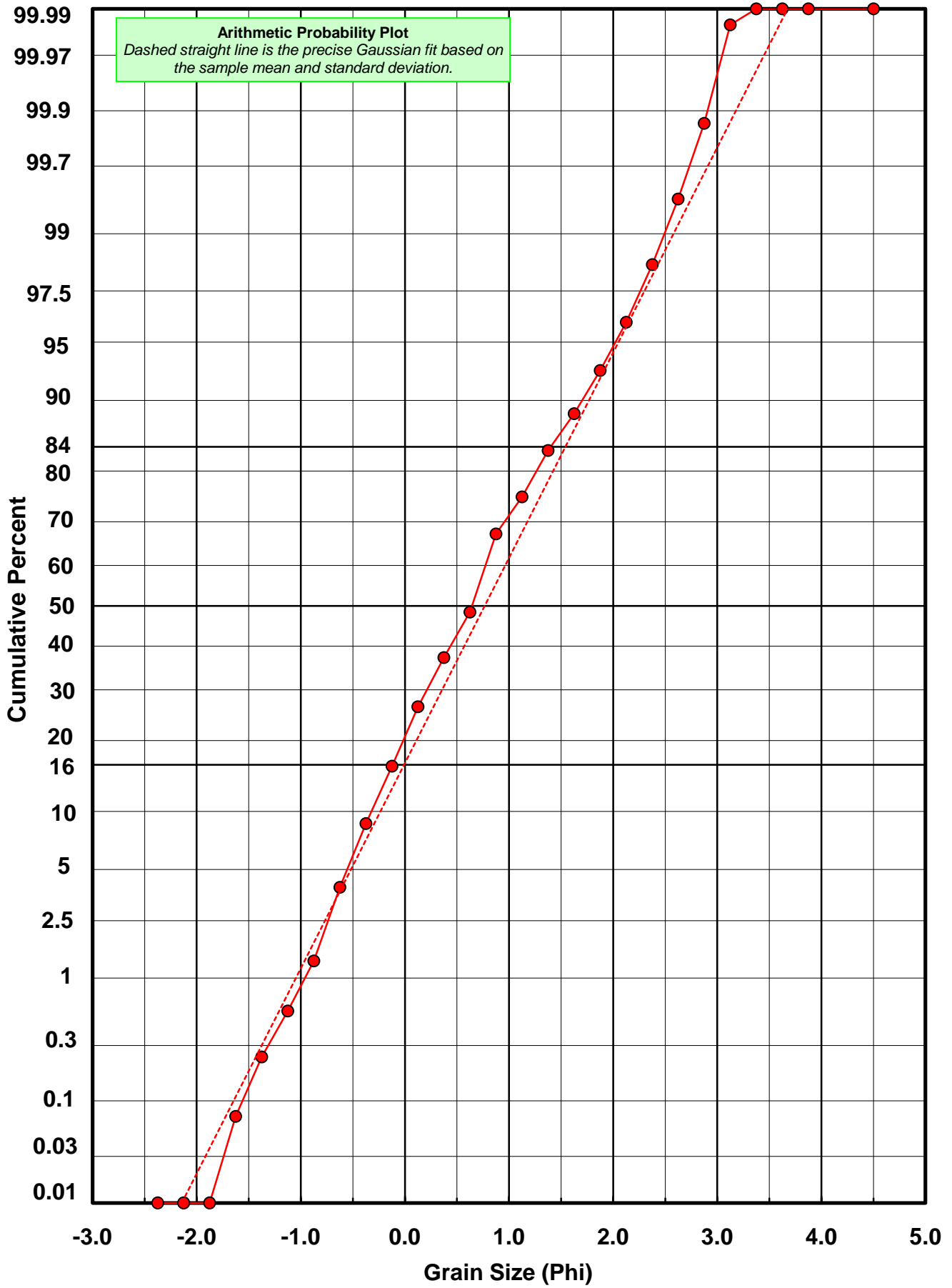
* RARD = reciprocal absolute relative dispersion (see below)

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)



MT-11



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MT-11

Total Digested Mass: 31.542 grams

% Silica: 44.2 %

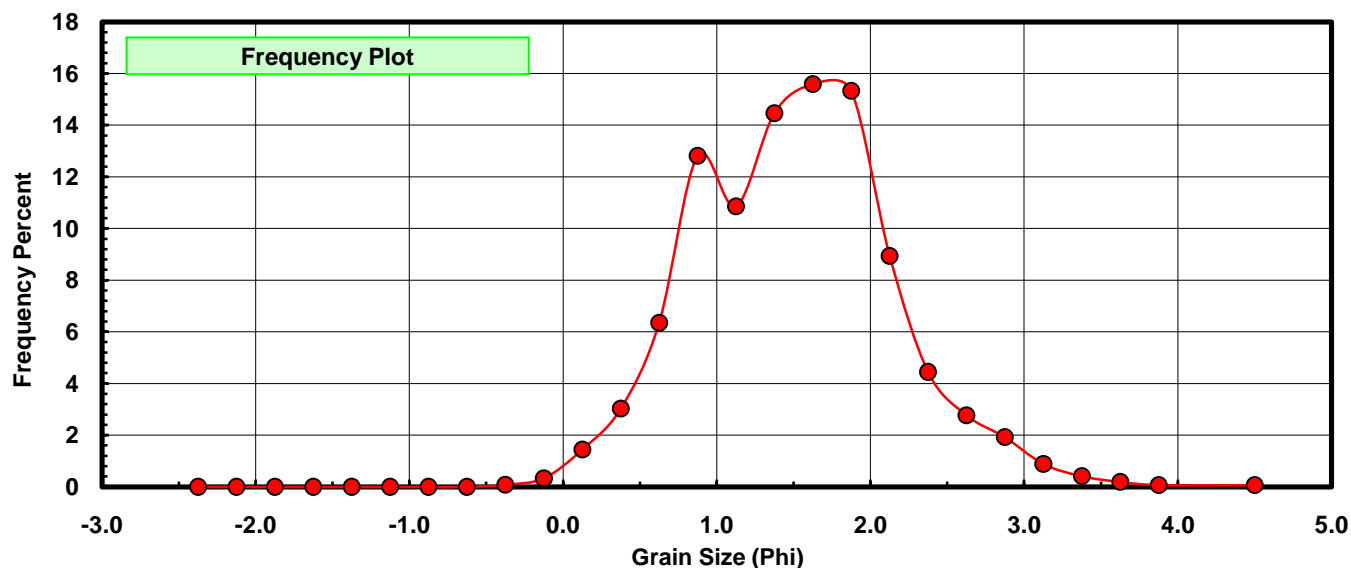
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.026	0.082	0.082
0.00	-0.125	0.105	0.333	0.415
0.25	0.125	0.457	1.449	1.864
0.50	0.375	0.955	3.028	4.892
0.75	0.625	2.003	6.350	11.242
1.00	0.875	4.042	12.815	24.057
1.25	1.125	3.424	10.855	34.912
1.50	1.375	4.563	14.466	49.379
1.75	1.625	4.917	15.589	64.967
2.00	1.875	4.834	15.326	80.293
2.25	2.125	2.821	8.944	89.237
2.50	2.375	1.403	4.448	93.685
2.75	2.625	0.874	2.771	96.456
3.00	2.875	0.606	1.921	98.377
3.25	3.125	0.279	0.885	99.261
3.50	3.375	0.130	0.412	99.673
3.75	3.625	0.060	0.190	99.864
4.00	3.875	0.022	0.070	99.933
5.00	4.500	0.021	0.067	100.000

Statistical Results			
Mean:	1.5038	phi	(0.3526 mm)
Standard Dev:	0.6541	phi-units	(0.6355 mm)
Skewness:	0.2771	dimensionless	
Kurtosis:	3.2425	dimensionless	
5th Moment:	3.7117	dimensionless	
6th Moment:	21.3865	dimensionless	
RARD *	0.4350	dimensionless	
Median	1.3850	phi	(0.3829 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)



MT-11

