

## Onshore Grab Sample

Sample: SL-05  
Sample Taken By: D. Phelps  
Sample Collected On: 10/31/08  
Splits? N/A

County: St. Lucie  
Latitude: 27° 30' 08.3"  
Longitude: 80° 18' 04.4"  
Datum: WGS 84  
Surf. Elev: 0  
Datum: N/A

### Fine Data Summary

Total Sample Weight 56.554 grams  
Total Fines in Sample 0.166 grams  
Total Percent Fines 0.29 %

### Dry Sieving Summary

Total Sample Weight 56.390 grams  
Total Digested Weight 38.699 grams  
Total Carbonate Weight 17.691 grams  
Total Silica % 68.63 %  
Total Carbonate % 31.37 %  
Carbonate/Silica Ratio 0.457

### General Comments:

None

### Description

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SL-05

Total Sample Mass: 56.390 grams

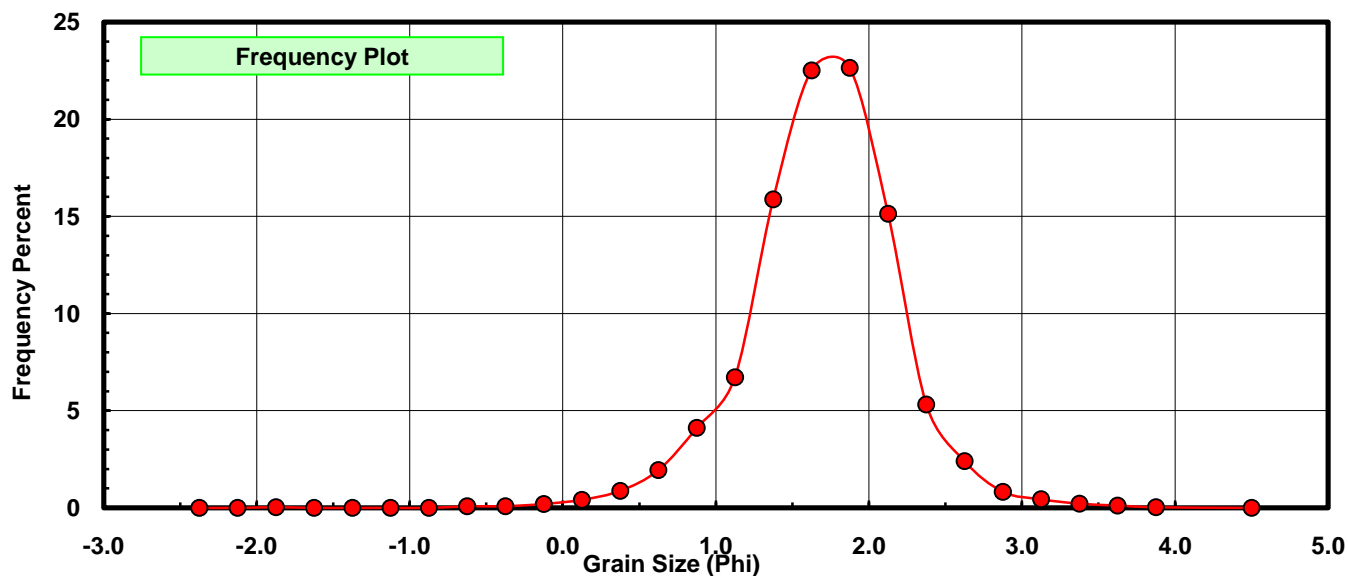
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.020	0.035	0.035
-1.50	-1.625	0.000	0.000	0.035
-1.25	-1.375	0.000	0.000	0.035
-1.00	-1.125	0.000	0.000	0.035
-0.75	-0.875	0.000	0.000	0.035
-0.50	-0.625	0.044	0.078	0.113
-0.25	-0.375	0.049	0.087	0.200
0.00	-0.125	0.113	0.200	0.401
0.25	0.125	0.235	0.417	0.818
0.50	0.375	0.494	0.876	1.694
0.75	0.625	1.095	1.942	3.635
1.00	0.875	2.318	4.111	7.746
1.25	1.125	3.793	6.726	14.472
1.50	1.375	8.954	15.879	30.351
1.75	1.625	12.699	22.520	52.871
2.00	1.875	12.767	22.641	75.512
2.25	2.125	8.531	15.129	90.640
2.50	2.375	2.999	5.318	95.959
2.75	2.625	1.355	2.403	98.361
3.00	2.875	0.468	0.830	99.191
3.25	3.125	0.248	0.440	99.631
3.50	3.375	0.122	0.216	99.847
3.75	3.625	0.068	0.121	99.968
4.00	3.875	0.018	0.032	100.000
5.00	4.50	0.000	0.000	100.000

Statistical Results			
Mean:	1.6960	phi	(0.3086 mm)
Standard Dev:	0.5015	phi-units	(0.7064 mm)
Skewness:	-0.3936	dimensionless	
Kurtosis:	5.3670	dimensionless	
5th Moment:	-9.8137	dimensionless	
6th Moment:	88.2278	dimensionless	
RARD *	0.2957	dimensionless	
Median	1.5931	phi	(0.3315 mm)

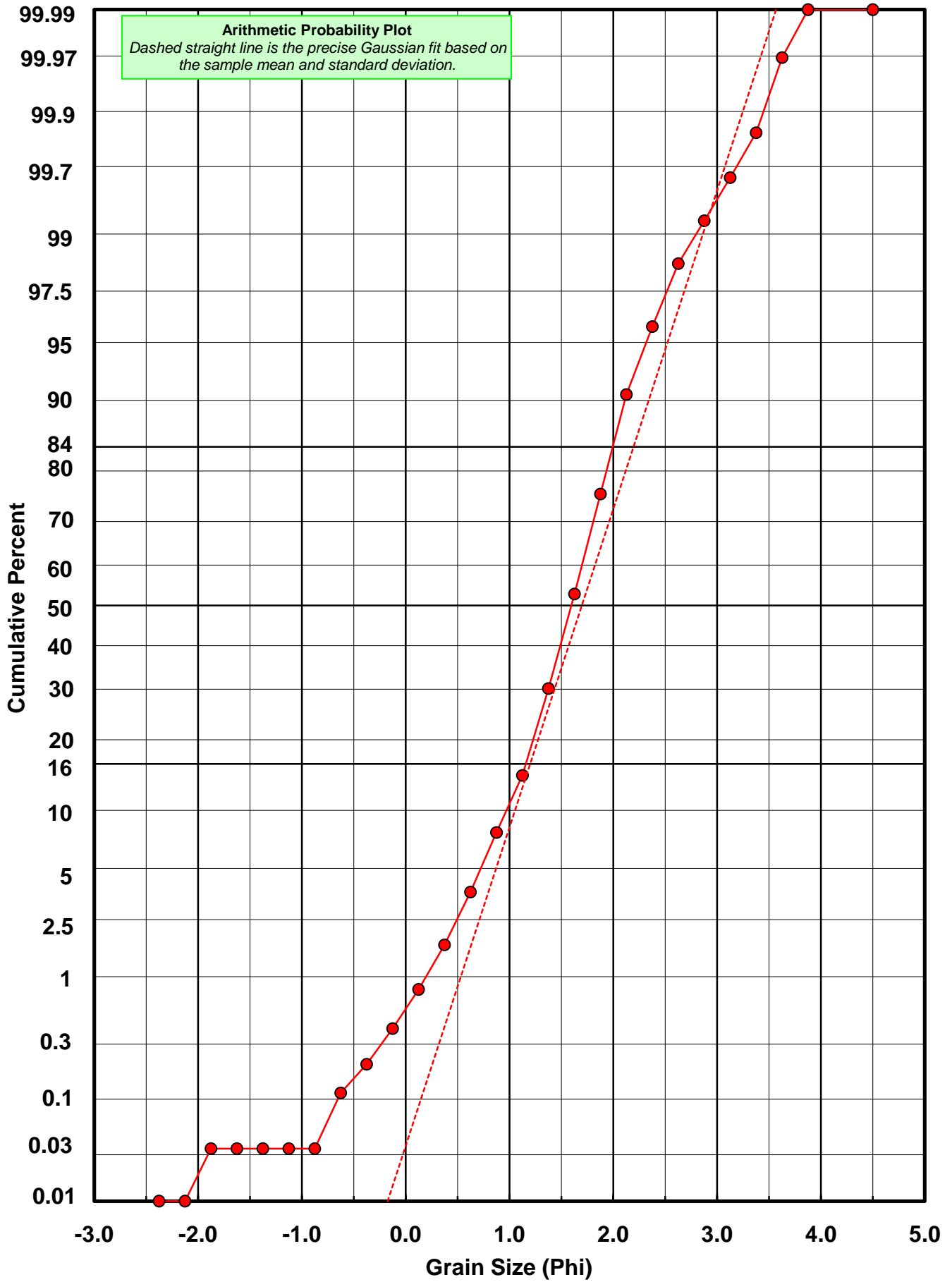
\* RARD = reciprocal absolute relative dispersion (see below)

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)



# SL-05



# Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SL-05

Total Carbonate Mass: 17.692 grams

% Carbonate: 31.4 %

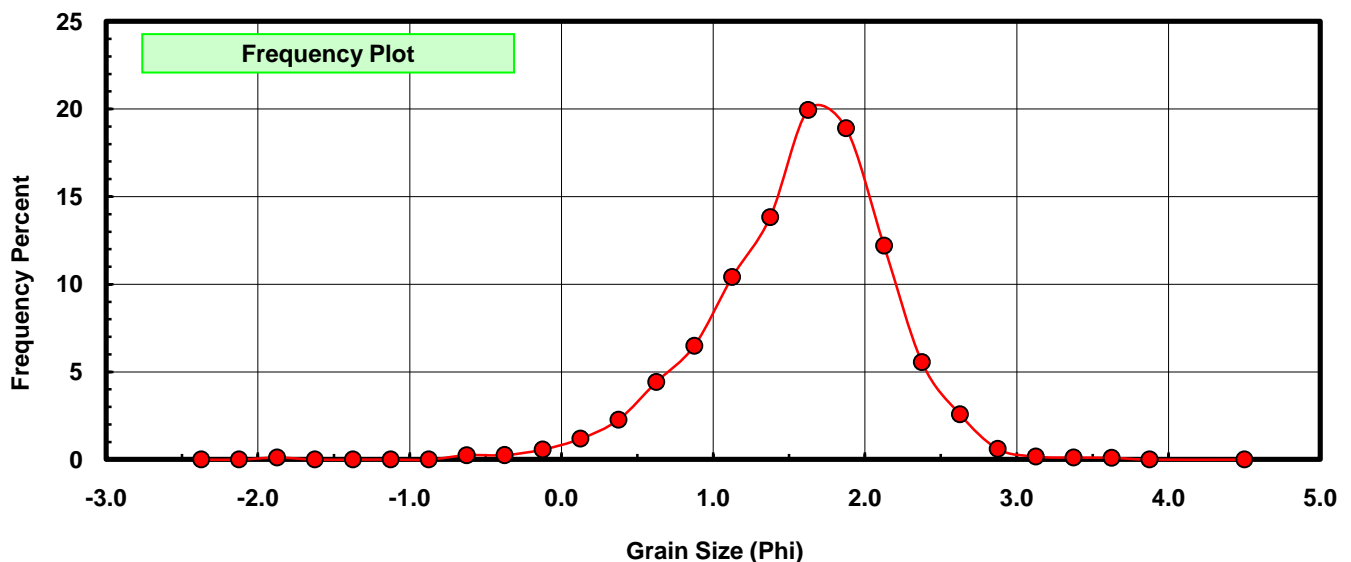
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.020	0.113	0.113
-1.50	-1.625	0.000	0.000	0.113
-1.25	-1.375	0.000	0.000	0.113
-1.00	-1.125	0.000	0.000	0.113
-0.75	-0.875	0.000	0.000	0.113
-0.50	-0.625	0.044	0.249	0.362
-0.25	-0.375	0.045	0.254	0.616
0.00	-0.125	0.101	0.571	1.187
0.25	0.125	0.210	1.187	2.374
0.50	0.375	0.402	2.272	4.646
0.75	0.625	0.783	4.426	9.072
1.00	0.875	1.149	6.494	15.566
1.25	1.125	1.843	10.417	25.983
1.50	1.375	2.447	13.831	39.815
1.75	1.625	3.530	19.953	59.767
2.00	1.875	3.344	18.901	78.668
2.25	2.125	2.159	12.203	90.872
2.50	2.375	0.983	5.556	96.428
2.75	2.625	0.457	2.583	99.011
3.00	2.875	0.107	0.605	99.616
3.25	3.125	0.030	0.170	99.785
3.50	3.375	0.020	0.113	99.898
3.75	3.625	0.018	0.102	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:	1.5644	phi	(0.3381 mm)
Standard Dev:	0.6076	phi-units	(0.6563 mm)
Skewness:	-0.6439	dimensionless	
Kurtosis:	4.4819	dimensionless	
5th Moment:	-10.6098	dimensionless	
6th Moment:	60.0502	dimensionless	
RARD *	0.3884	dimensionless	
Median	1.5026	phi	(0.3529 mm)

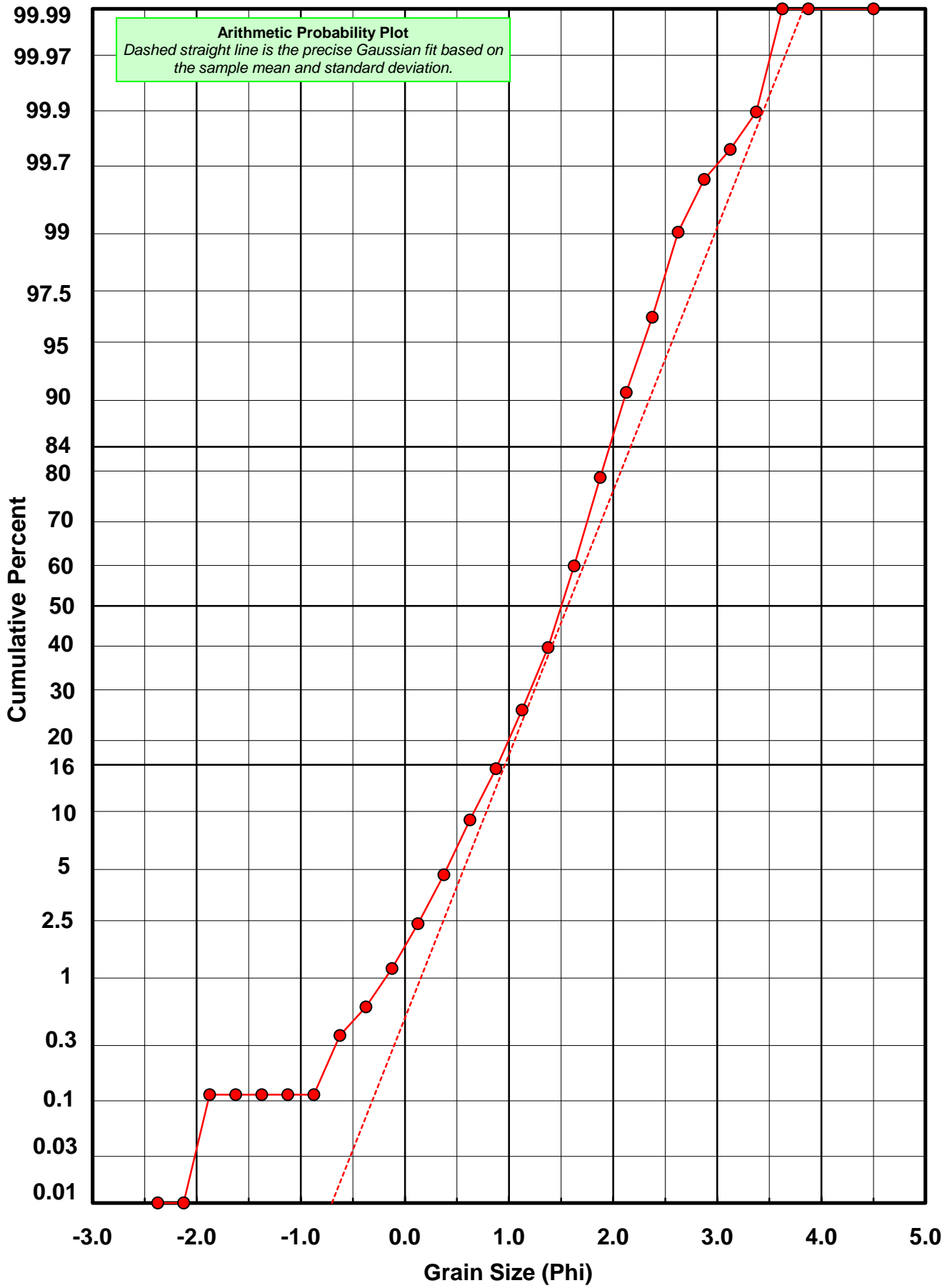
\* RARD = reciprocal absolute relative dispersion (see below)

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)
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> 1.33	Poor homogeneity (e.g., glacial)



# SL-05



# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SL-05

Total Digested Mass: 38.699 grams

% Silica: 68.6 %

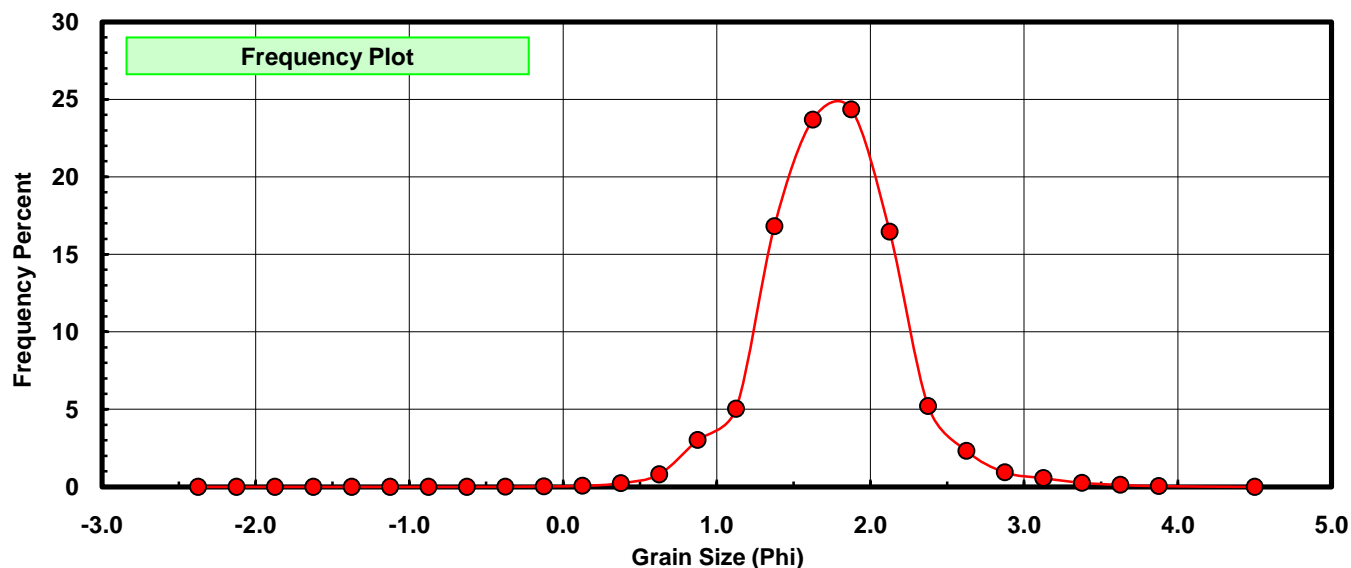
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.004	0.010	0.010
0.00	-0.125	0.012	0.031	0.041
0.25	0.125	0.025	0.065	0.106
0.50	0.375	0.092	0.238	0.344
0.75	0.625	0.312	0.806	1.150
1.00	0.875	1.169	3.021	4.171
1.25	1.125	1.950	5.039	9.210
1.50	1.375	6.507	16.814	26.024
1.75	1.625	9.169	23.693	49.717
2.00	1.875	9.423	24.349	74.067
2.25	2.125	6.372	16.466	90.532
2.50	2.375	2.016	5.209	95.741
2.75	2.625	0.898	2.320	98.062
3.00	2.875	0.361	0.933	98.995
3.25	3.125	0.218	0.563	99.558
3.50	3.375	0.102	0.264	99.822
3.75	3.625	0.050	0.129	99.951
4.00	3.875	0.019	0.049	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.7563	phi	(0.296 mm)
Standard Dev:	0.4409	phi-units	(0.7367 mm)
Skewness:	0.2516	dimensionless	
Kurtosis:	4.4669	dimensionless	
5th Moment:	4.4248	dimensionless	
6th Moment:	42.2807	dimensionless	
RARD *	0.2510	dimensionless	
Median	1.6279	phi	(0.3236 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 $mm = 2^{(-\phi)}$	

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