

Onshore Grab Sample

Sample: PI-10-BB
Sample Taken By: D. Phelps
Sample Collected On: 11/3/09
Splits? N/A

County: Pinellas
Latitude: 28° 02' 4.0"
Longitude: 82° 49' 18.8"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 56.632 grams
Total Fines in Sample 0.105 grams
Total Percent Fines 0.19 %

Dry Sieving Summary

Total Sample Weight 56.487 grams
Total Digested Weight 53.819 grams
Total Carbonate Weight 2.668 grams
Total Silica % 95.28 %
Total Carbonate % 4.72 %
Carbonate/Silica Ratio 0.050

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-10-BB

Total Sample Mass: 56.487 grams

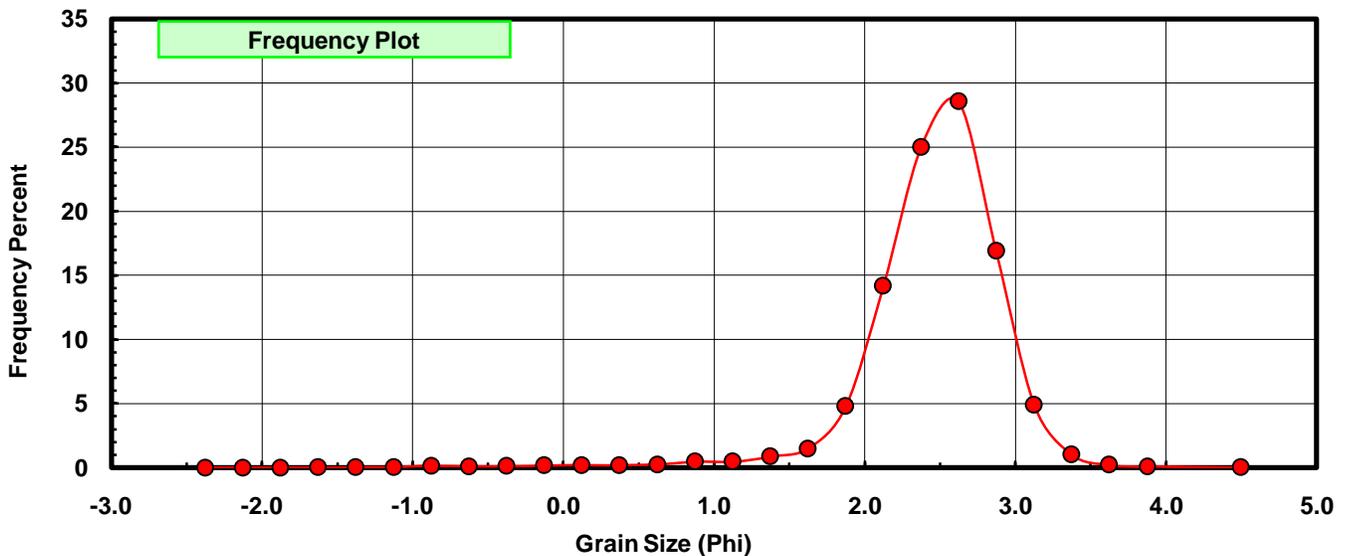
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.007	0.012	0.012
-1.25	-1.375	0.015	0.027	0.039
-1.00	-1.125	0.020	0.035	0.074
-0.75	-0.875	0.083	0.147	0.221
-0.50	-0.625	0.055	0.097	0.319
-0.25	-0.375	0.061	0.108	0.427
0.00	-0.125	0.091	0.161	0.588
0.25	0.125	0.101	0.179	0.767
0.50	0.375	0.103	0.182	0.949
0.75	0.625	0.133	0.235	1.184
1.00	0.875	0.261	0.462	1.646
1.25	1.125	0.263	0.466	2.112
1.50	1.375	0.483	0.855	2.967
1.75	1.625	0.834	1.476	4.444
2.00	1.875	2.697	4.775	9.218
2.25	2.125	7.993	14.150	23.368
2.50	2.375	14.114	24.986	48.354
2.75	2.625	16.132	28.559	76.913
3.00	2.875	9.544	16.896	93.809
3.25	3.125	2.753	4.874	98.683
3.50	3.375	0.575	1.018	99.701
3.75	3.625	0.115	0.204	99.904
4.00	3.875	0.045	0.080	99.984
5.00	4.50	0.009	0.016	100.000

Statistical Results			
Mean:	2.4608	phi	(0.1816 mm)
Standard Dev:	0.4812	phi-units	(0.7164 mm)
Skewness:	-2.2970	dimensionless	
Kurtosis:	14.7962	dimensionless	
5th Moment:	-84.4632	dimensionless	
6th Moment:	555.1918	dimensionless	
RARD *	0.1955	dimensionless	
Median	2.3894	phi	(0.1909 mm)

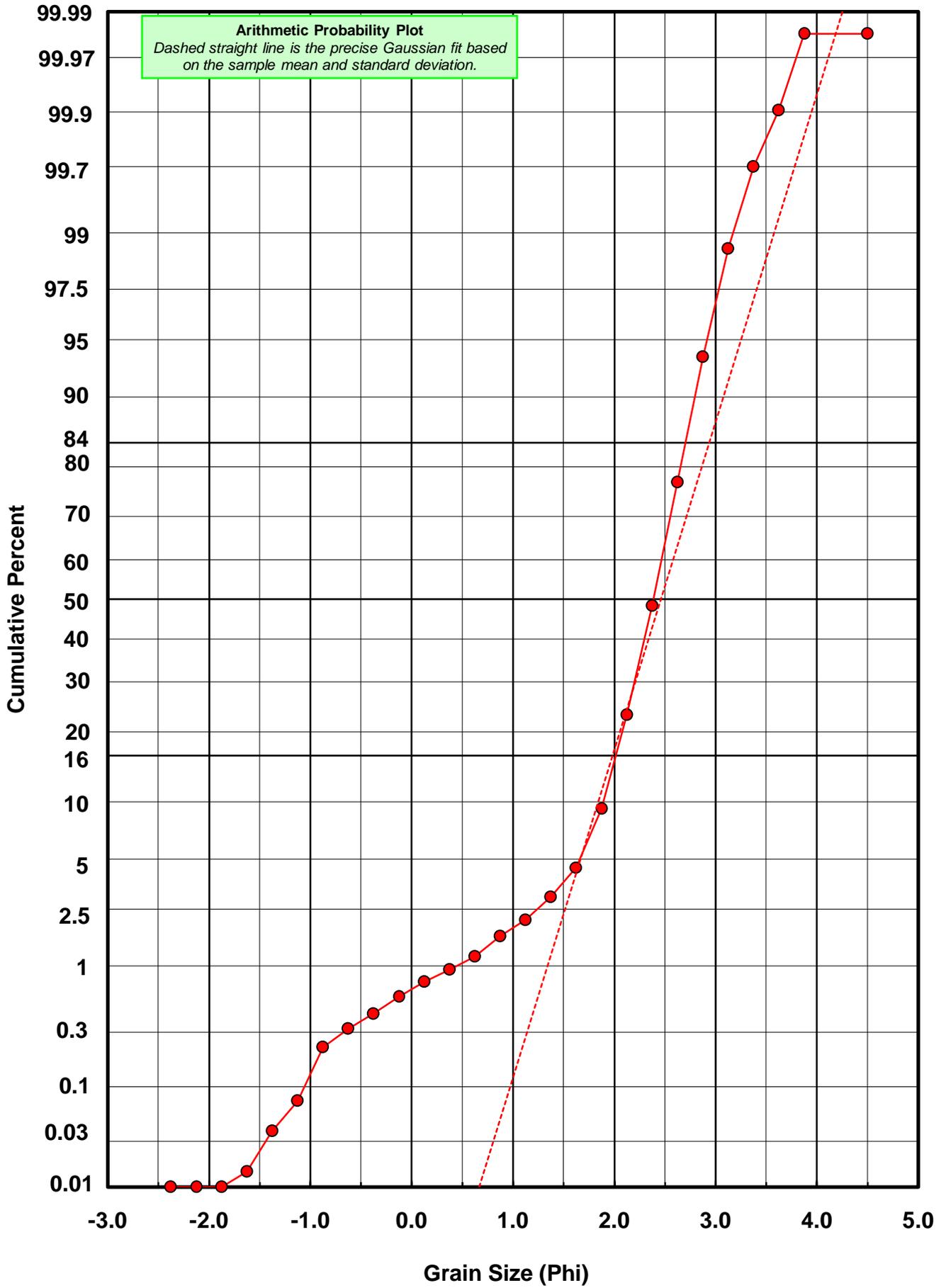
* RARD = reciprocal absolute relative dispersion (see below)

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)



PI-10-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PI-10-BB

Total Carbonate Mass: 2.930 grams

% Carbonate: 4.7 %

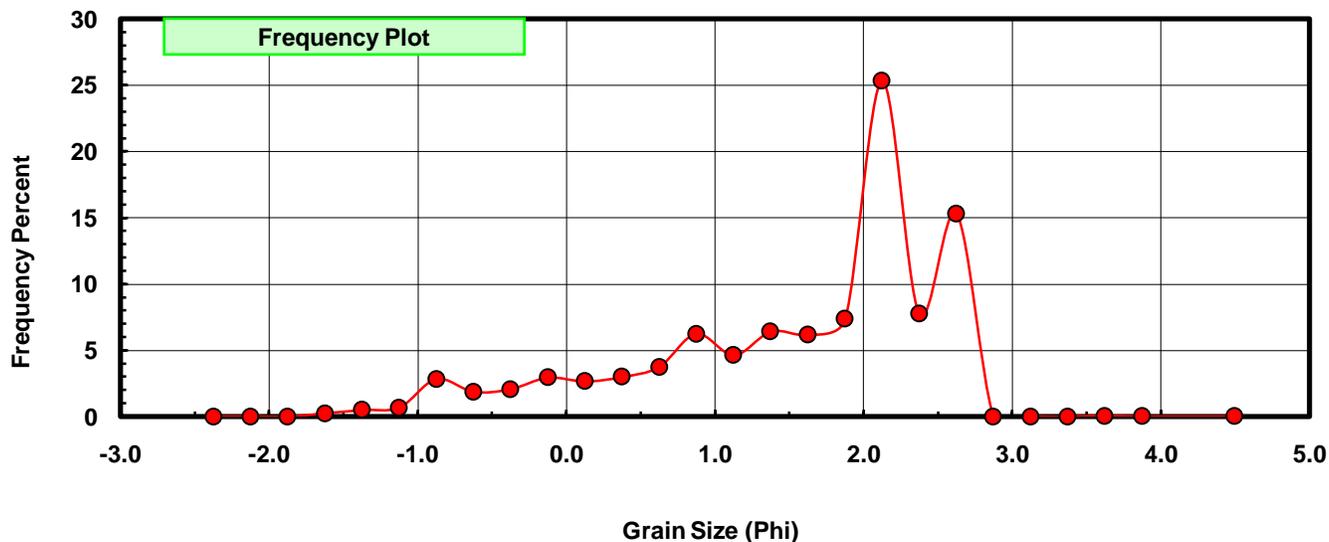
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.007	0.239	0.239
-1.25	-1.375	0.015	0.512	0.751
-1.00	-1.125	0.020	0.683	1.433
-0.75	-0.875	0.083	2.833	4.266
-0.50	-0.625	0.055	1.877	6.143
-0.25	-0.375	0.061	2.082	8.225
0.00	-0.125	0.087	2.969	11.195
0.25	0.125	0.078	2.662	13.857
0.50	0.375	0.088	3.003	16.860
0.75	0.625	0.110	3.754	20.614
1.00	0.875	0.183	6.246	26.860
1.25	1.125	0.136	4.642	31.502
1.50	1.375	0.188	6.416	37.918
1.75	1.625	0.181	6.177	44.096
2.00	1.875	0.216	7.372	51.468
2.25	2.125	0.742	25.324	76.792
2.50	2.375	0.228	7.782	84.573
2.75	2.625	0.448	15.290	99.863
3.00	2.875	0.000	0.000	99.863
3.25	3.125	0.000	0.000	99.863
3.50	3.375	0.000	0.000	99.863
3.75	3.625	0.002	0.068	99.932
4.00	3.875	0.001	0.034	99.966
5.00	4.500	0.001	0.034	100.000

Statistical Results			
Mean:	1.5348	phi	(0.3451 mm)
Standard Dev:	1.0139	phi-units	(0.4952 mm)
Skewness:	-1.0059	dimensionless	
Kurtosis:	3.1670	dimensionless	
5th Moment:	-6.1989	dimensionless	
6th Moment:	16.5046	dimensionless	
RARD *	0.6606	dimensionless	
Median	1.8252	phi	(0.2822 mm)

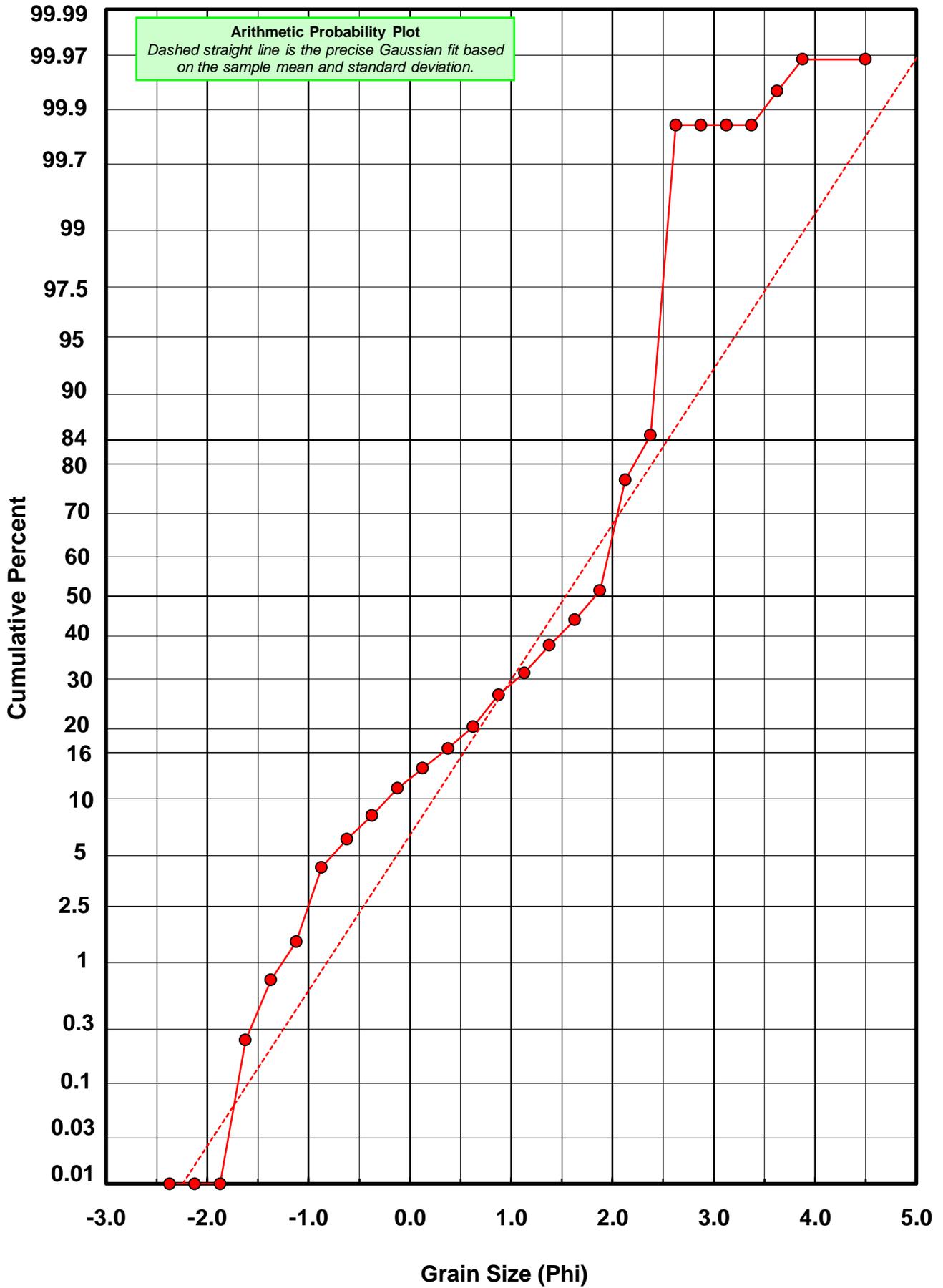
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Statistical Explanation	
Calculations based on the Method of Moments	
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0	
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{-(\phi)}$	

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PI-10-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-10-BB

Total Digested Mass: 53.819 grams

% Silica: 95.3 %

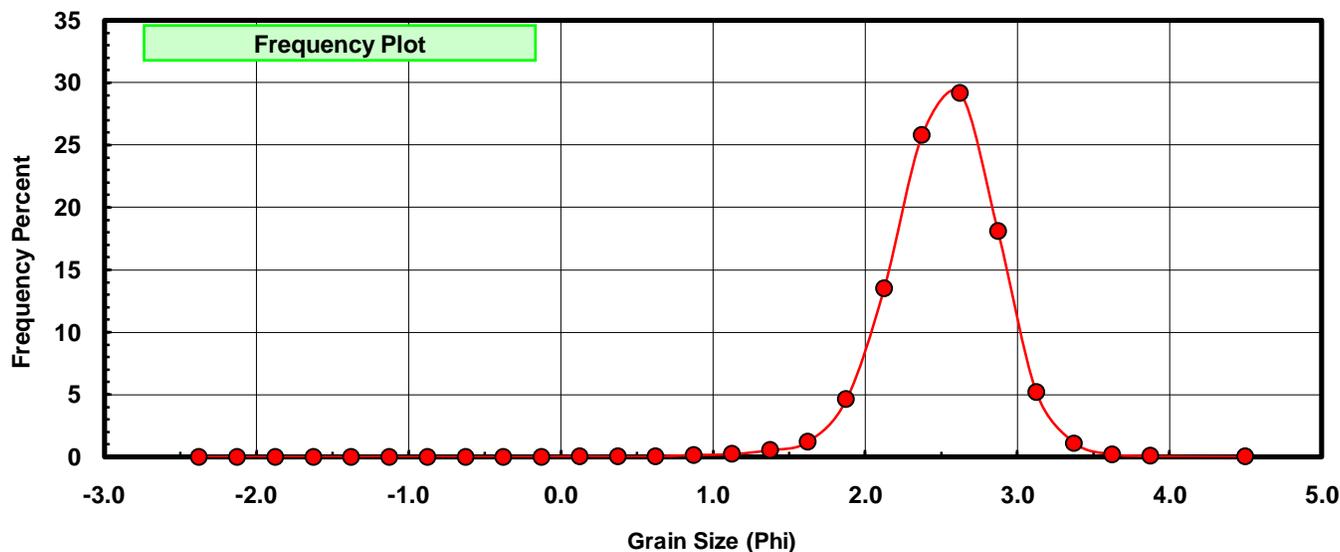
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.004	0.007	0.007
0.25	0.125	0.023	0.043	0.050
0.50	0.375	0.015	0.028	0.078
0.75	0.625	0.023	0.043	0.121
1.00	0.875	0.078	0.145	0.266
1.25	1.125	0.127	0.236	0.502
1.50	1.375	0.295	0.548	1.050
1.75	1.625	0.653	1.213	2.263
2.00	1.875	2.481	4.610	6.873
2.25	2.125	7.251	13.473	20.346
2.50	2.375	13.886	25.801	46.147
2.75	2.625	15.684	29.142	75.289
3.00	2.875	9.723	18.066	93.356
3.25	3.125	2.801	5.204	98.560
3.50	3.375	0.610	1.133	99.693
3.75	3.625	0.113	0.210	99.903
4.00	3.875	0.044	0.082	99.985
5.00	4.500	0.008	0.015	100.000

Statistical Results			
Mean:	2.5138	phi	(0.1751 mm)
Standard Dev:	0.3706	phi-units	(0.7735 mm)
Skewness:	-0.5729	dimensionless	
Kurtosis:	5.4372	dimensionless	
5th Moment:	-13.8969	dimensionless	
6th Moment:	95.7098	dimensionless	
RARD *	0.1474	dimensionless	
Median	2.4081	phi	(0.1884 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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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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