Onshore Grab Sample

Sample: PS-09
Sample Taken By: D. Phelps
Sample Collected On: 3/2/11
Splits? N/A

County: Pasco
Latitude: 28° 11' 56.3" N
Longitude: 82° 47' 6.1" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	44.381	grams
Total Fines in Sample	0.186	grams
Total Percent Fines	0.42	%

Dry Sieving Summary

Total Sample Weight	44.002	grams
Total Digested Weight	43.764	grams
Total Carbonate Weight	0.238	grams
Total Silica %	99.46	%
Total Carbonate %	0.54	%
Carbonate/Silica Ratio	0.005	

General Comments:

Not Enough Carbonate Material to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PS-09

Total Sample Mass: 44.002 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	0.000	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	0.141	0.320	0.320
-0.25	-0.375	0.012	0.027	0.348
0.00	-0.125	0.041	0.093	0.441
0.25	0.125	0.089	0.202	0.643
0.50	0.375	0.156	0.355	0.998
0.75	0.625	0.223	0.507	1.504
1.00	0.875	0.464	1.054	2.559
1.25	1.125	0.535	1.216	3.775
1.50	1.375	1.195	2.716	6.491
1.75	1.625	1.799	4.088	10.579
2.00	1.875	3.561	8.093	18.672
2.25	2.125	4.780	10.863	29.535
2.50	2.375	7.000	15.908	45.443
2.75	2.625	7.269	16.520	61.963
3.00	2.875	9.832	22.344	84.308
3.25	3.125	4.652	10.572	94.880
3.50	3.375	1.857	4.220	99.100
3.75	3.625	0.336	0.764	99.864
4.00	3.875	0.044	0.100	99.964
5.00	4.50	0.016	0.036	100.000

Statistical Results			
Mean:	2.4717	phi	(0.1803 mm)
Standard Dev:	0.6161	phi-units	(0.6525 mm)
Skewness:	-1.1827	dimensionless	
Kurtosis:	5.6923	dimensionless	
5th Moment:	-18.7592	dimensionless	
6th Moment:	84.0945	dimensionless	
RARD *	0.2492	dimensionless	
Median	2.4440	phi	(0.1838 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

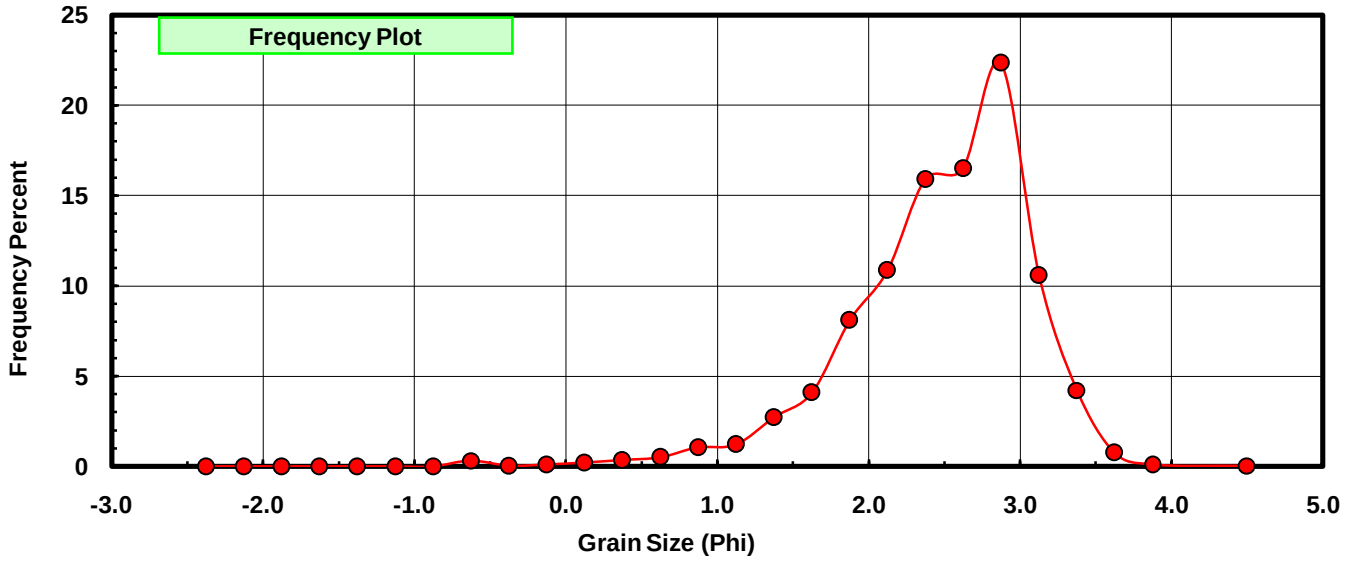
Statistical Explanation

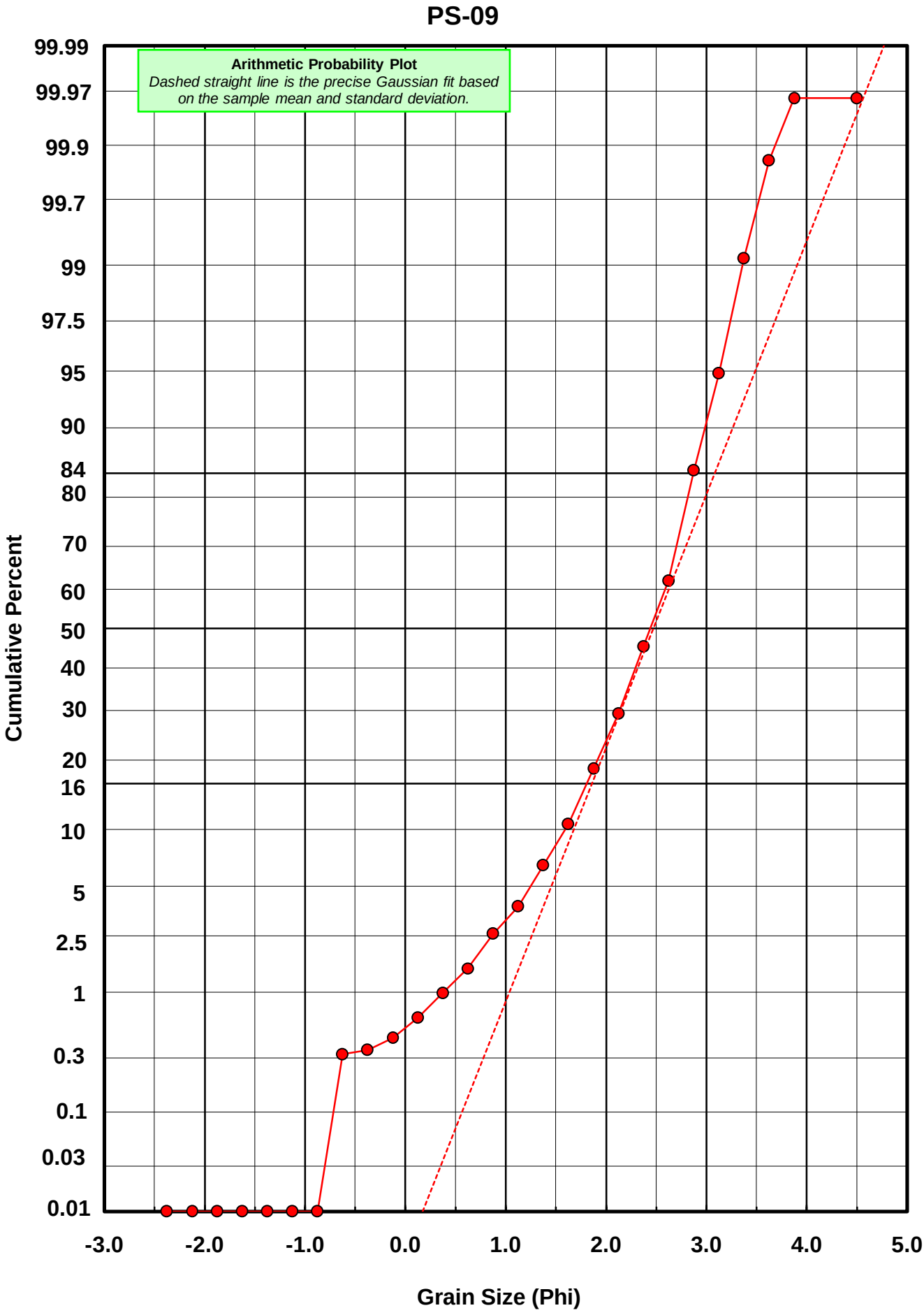
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

For Further Explanation, See Basillle 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)




PS-09
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)