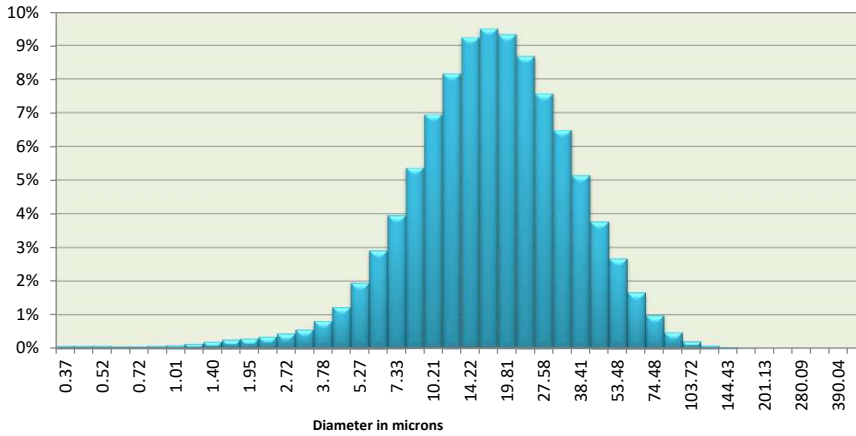


LISST-Portable|XR Size Distribution Report

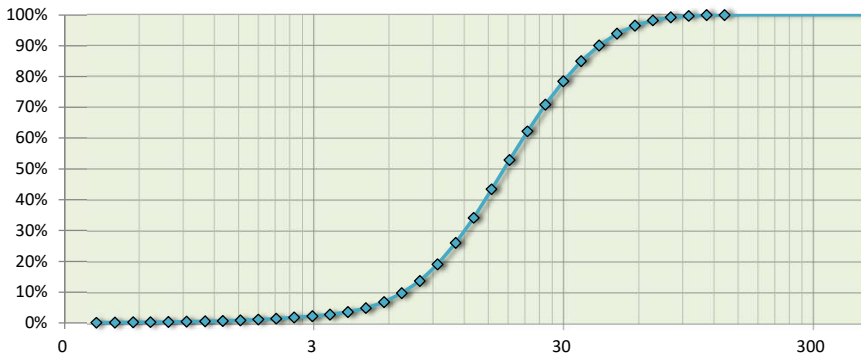
Sample Number: 293
 Operator: Gustavo Martinez
 Sample Notes: Biochar- Corn Stover Micronized (-200 MESH)
 SOP Name: Fraunhofer Manual
 SOP Note: Fraunhofer model

Process Date: 1/17/2025
 Process Time: 16:03:06

Volume Concentration



Cumulative Volume Distribution



Median Size (microns)	Volume Conc (%)	Cumulative Volume
0.37	0%	0.07%
0.44	0%	0.14%
0.52	0%	0.21%
0.61	0%	0.27%
0.72	0%	0.33%
0.85	0%	0.40%
1.01	0%	0.49%
1.19	0%	0.63%
1.40	0%	0.83%
1.65	0%	1.09%
1.95	0%	1.39%
2.30	0%	1.74%
2.72	0%	2.18%
3.20	1%	2.75%
3.78	1%	3.57%
4.46	1%	4.80%
5.27	2%	6.75%
6.21	3%	9.66%
7.33	4%	13.62%
8.65	5%	18.99%
10.21	7%	25.95%
12.05	8%	34.12%
14.22	9%	43.37%
16.78	10%	52.88%
19.81	9%	62.21%
23.37	9%	70.90%
27.58	8%	78.47%
32.55	6%	84.96%
38.41	5%	90.10%
45.32	4%	93.87%
53.48	3%	96.55%
63.11	2%	98.22%
74.48	1%	99.20%
87.89	0%	99.68%
103.72	0%	99.89%
122.39	0%	99.98%
144.43	0%	100.01%
170.44	0%	100.02%
201.13	0%	100.02%
237.35	0%	100.02%
280.09	0%	100.02%
330.52	0%	100.02%
390.04	0%	100.02%
460.27	0%	100.02%

Computed Statistics		
Optical Transmission	97%	
Total Volume Conc	8.52	µl/l
Total Mass Conc	22.58	mg/l
Mean Size	16.79	microns
Standard Deviation	16.57	microns
Optical Model	Fraunhofer	
Index of Refraction	n/a	
Effective Density	2.65	g/cm^3
Mixer Speed	30	%
Mixer Duration	-1	sec
Ultrasonic Power	-1	%
Ultrasonic Duration	-1	sec
Average Duration	20	sec
Sample Prep Control	Manual	

Computed Statistics		
D5	4.94	microns
D10	6.85	microns
D16	8.58	microns
D25	10.85	microns
D50	17.35	microns
D60	20.70	microns
D75	27.78	microns
D84	34.51	microns
D90	41.61	microns
D95	52.88	microns
D60/D10	3.02	
Surface Area	0.19	cm^2
Silt Ratio	0.00	
Silt Volume	0.01	µl/l

Analysis performed using laser diffraction techniques as described in AWWA Standard No. 2560D and ISO-13320-1. Instrumentation calibrated using NIST traceable standard particles.



Sequoia Scientific, Inc

Additional Sample Notes: