

## Supplementary Material

# Microplastics in Water: Challenges in Measurement and Regulation, and a Path Towards Mass-Based Metrics

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**Table S1.** Method validation data: recoveries and RSD values obtained for the reference material (PS) and cryo-milled PE and PP microplastics across different size fractions.

<b>Polymer</b>	<b>Size (<math>\mu\text{m}</math>)</b>	<b>Spiked MPs (<math>\text{mg L}^{-1}</math>)</b>	<b>Recovery (%)</b>	<b>RSD (%)</b>
PS	Reference material (D10 = 91 $\mu\text{m}$ , D50 = 206 $\mu\text{m}$ , D90 = 311 $\mu\text{m}$ )	1	97.50	6.44
		10	98.82	1.72
		20	105.63	7.94
PP	<50	5	92.93	4.49
	50 - 100		98.56	3.1
	100 - 250		90.42	1.2
PE	100 - 250	5	95.88	3.58
		10	98.25	4.55
		20	98.06	3.47