

Microplastics Removal from Treated Wastewater by a Biofilter

Fan Liu, Nadia B Nord, Kai Bester and Jes Vollertsen



Figure S1. Biofilm growth, photo taken from the top of the filter before the sampling.

Table S1. Sample volume, MP concentration, removal efficiency, particle size, and mass for the inlet (raw effluent without passing through the biofilter and each filtration level).

	Sampled volume (L)	Particle identified (item)	Median particle size (μm)	Median particle mass (ng)	Number concentration (item m ⁻³)	Removal efficiency (%)	Mass concentration (μg m ⁻³)	Removal efficiency (%)
Inlet	509	84	42.6	4.2	916.8		24.8	
Level 1	811	34	41.6	3.9	232.9	74.6	2.6	89.5
Level 2	650	13	45.5	10.8	111.1	87.9	1.5	93.9
Level 3	995	44	33.5	3.2	245.7	73.2	4.9	80.2
Level 4	780	24	30.1	1.8	170.9	81.4	1.1	95.6

Table S2. MP concentration and removal efficiency when the four treatment levels are combined.

	Sampled volume (L)	Particle identified (item)	Median particle size (μm)	Median particle mass (ng)	Number concentration (item m ⁻³)	Removal efficiency (%)	Mass concentration (μg m ⁻³)	Removal efficiency (%)
Inlet	509	84	42.6	4.2	916.8		24.8	
Combined	3236	115	39.0	3.3	197.4	78.5	2.8	88.9