

Table S1: Doses of coagulants used in experiments

Matrix type	Coagulant doses		
	FeCl ₃ (mmol Fe/l)	PACl (mmol Al/l)	FeCl ₃ and PACl concentrations in combined coagulation (mmol (Fe/Al)/l)
Synthetic matrix	0.72; 1.79; 2.51; 3.22;	0.77; 1.54; 2.31; 3.08;	1.79/1.54
Surface water	3.94	3.85	1.79/2.31
Laundry wastewater	7.16, 10.7, 14.3, 17.9; 21.5	1.92; 3.84; 5.76; 7.69; 9.61	14.3/3.85

Table S2: Concentration of textile fibers in synthetic water after coagulation/flocculation

Dose of FeCl ₃			Dose of PACl			Dose of FeCl ₃ /PACl		
mM	mg/l	Textile fibers concentration in water (mg/l)*	mM	mg/l	Textile fibers concentration in water (mg/l)*	mM	mg/l	Textile fibers concentration in water (mg/l)*
-	-	100	-	-	100	-	-	100
0.72	40	33	0.77	10	40	1.79/1.54 Fe/Al	100/20 Fe/Al	65
1.79	100	19	1.54	20	39	1.54/1.79 Al/Fe	20/100 Al/Fe	34
2.51	140	20	2.31	30	12	1.54/1.79 Fe+Al	100+20 Fe+Al	22
3.22	180	24	3.08	40	43			
3.94	220	1	3.85	50	9			

*Average of two measurements

Table S3: Concentration of textile fibers in surface water after coagulation/flocculation

Dose of FeCl ₃			Dose of PACl			Dose of FeCl ₃ /PACl		
mM	mg/l	Textile fibers concentration in water (mg/l)*	mM	mg/l	Textile fibers concentration in water (mg/l)*	mM	mg/l	Textile fibers concentration in water (mg/l)*
-	-	100	-	-	100	-	-	100
0.72	40	1	0.77	10	0	1.79/2.31 Fe/Al	100/10 Fe/Al	44
1.79	100	N/A	1.54	20	26	2.31/1.79 Al/Fe	10/100 Al/Fe	14
2.51	140	N/A	2.31	30	17	2.31/1.79 Fe+Al	100+10 Fe+Al	19
3.22	180	N/A	3.08	40	11			
3.94	220	N/A	3.85	50	12			

*Average of two measurements

Table S4: Concentration of textile fibers in laundry wastewater after coagulation/flocculation

Dose of FeCl ₃			Dose of PACl			Dose of FeCl ₃ /PaCl		
mM	mg/l	Textile fibers concentration in water (mg/l)*	mM	mg/l	Textile fibers concentration in water (mg/l)*	mM	mg/l	Textile fibers concentration in water (mg/l)*
-	-	100	-	-	100	-	-	100
7.16	400	35	1.92	25	9	14.3/3.85 Fe/Al	600/25 Fe/Al	24
10.74	600	15	3.85	50	4	3.85/14.3 Al/Fe	25/600 Al/Fe	9
14.32	800	8	5.77	75	5	3.85/14.3 Fe+Al	600+25 Fe+Al	27
17.90	1000	7	7.69	100	11			
21.49	1200	4	9.62	125	8			

*Average of two measurements