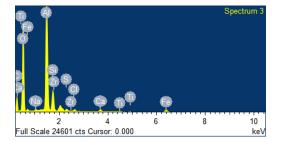


Figure S1. SEM images and photos of clean and fouled membrane. (a) SEM image: Clean membrane; (b) SEM image: Fouled membrane; (c) Photo: Fouled membrane; (d) Photo: Membrane after air scouring; (e) Photo: Membrane after backwashing at end of the experiment. Other experimental conditions: Coagulant concentration: 20 ppm; Coagulation method: In-situ coagulation; Operation mode: periodical relaxation, w/o backwashing, w/o aeration; Operation cycle: on/off ratio 60:1; Initial flux: ~150 LMH.



Element	Weight%	Atomic%
C	2.46	3.97
O	58.72	71.19
Al	24.98	17.95
Si	5.91	4.08
S	0.78	0.47
Totals	100.00	

Figure S2. EDX analysis of the fouled membrane. Other experimental conditions: Coagulant concentration: 20 ppm; Coagulation method: In-situ coagulation; Operation mode: periodical relaxation, w/o backwashing, w/o aeration; Operation cycle: on/off ratio 60:1; Initial flux: ~150 LMH.