

Clogging characterization and effect of post-aeration on clogging potential of tertiary treated wastewater

SUPPLEMENTARY MATERIAL

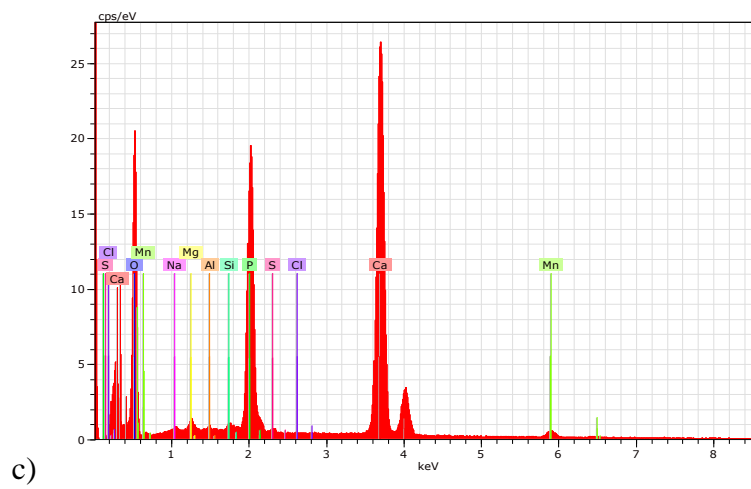
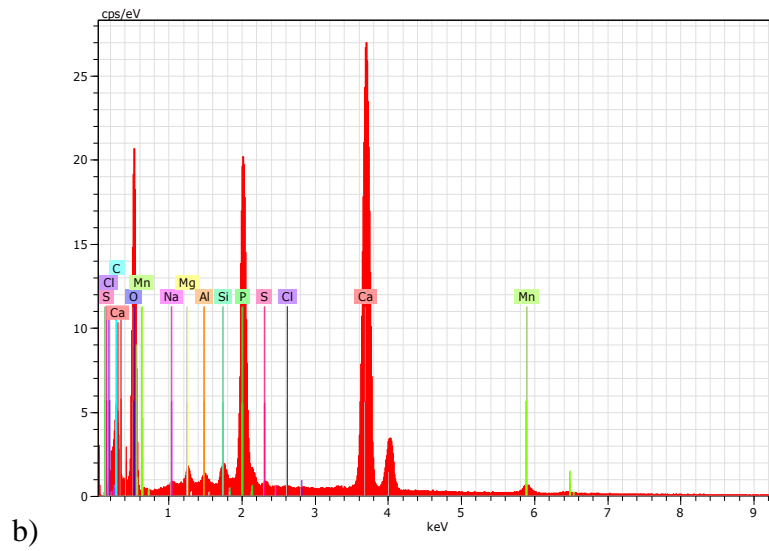
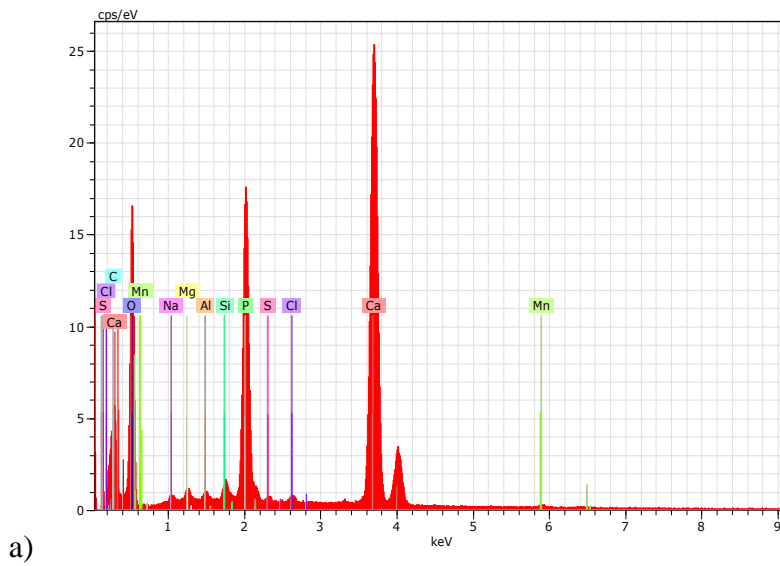


Figure S1. Analysis by X-ray photon EDS related to the three samples of the clogging matter collected in the golf course: (a) sample 1; (b) sample 2; (c) sample 3.

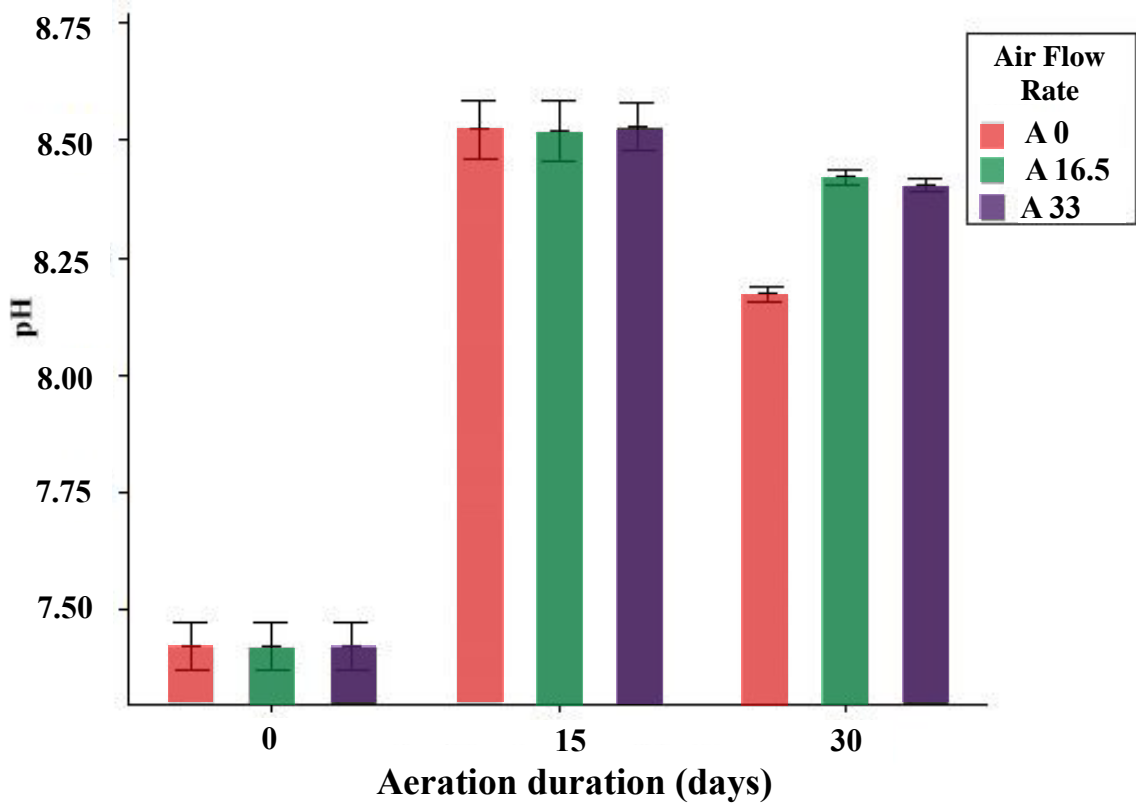


Figure S2. Effect of post-aeration on the pH of the treated wastewater

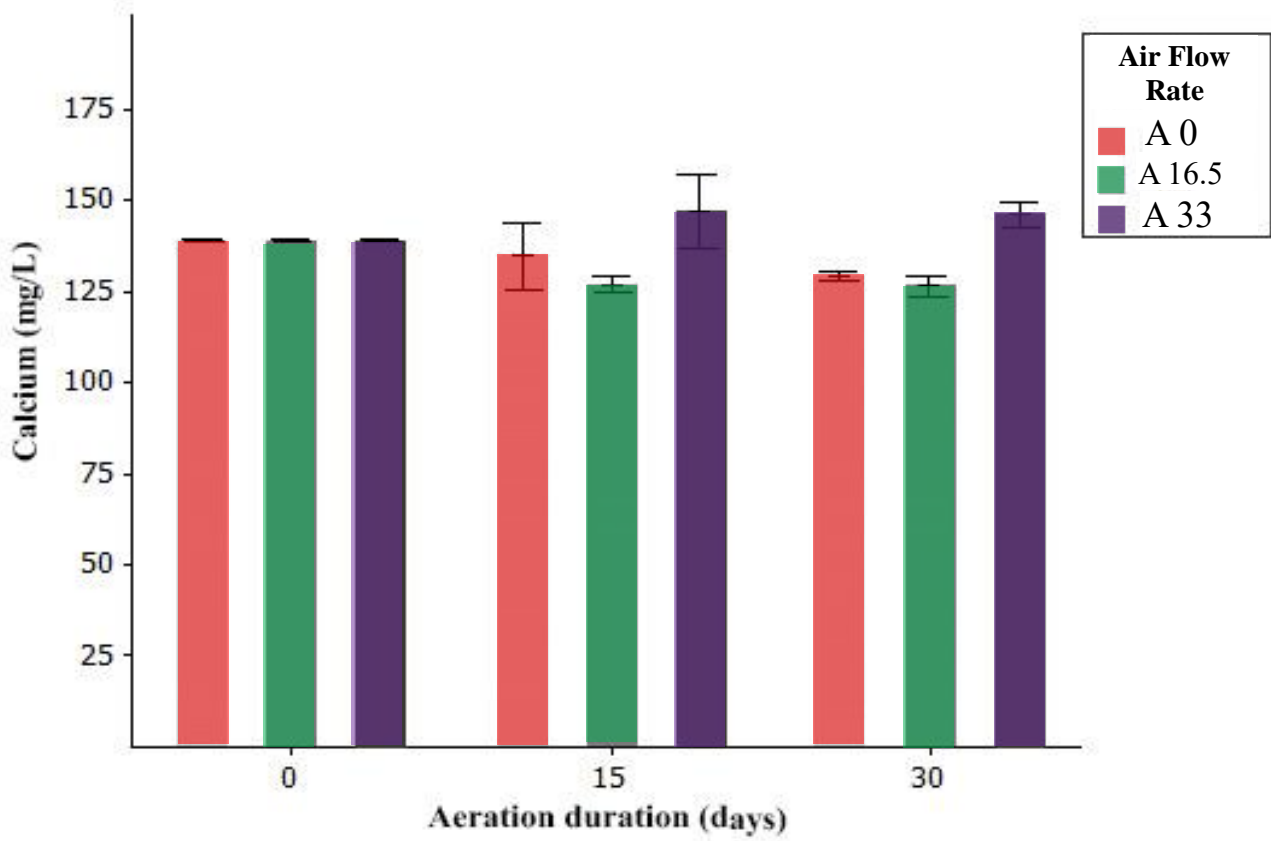


Figure S3. Effect of post-aeration on calcium content in the treated wastewater

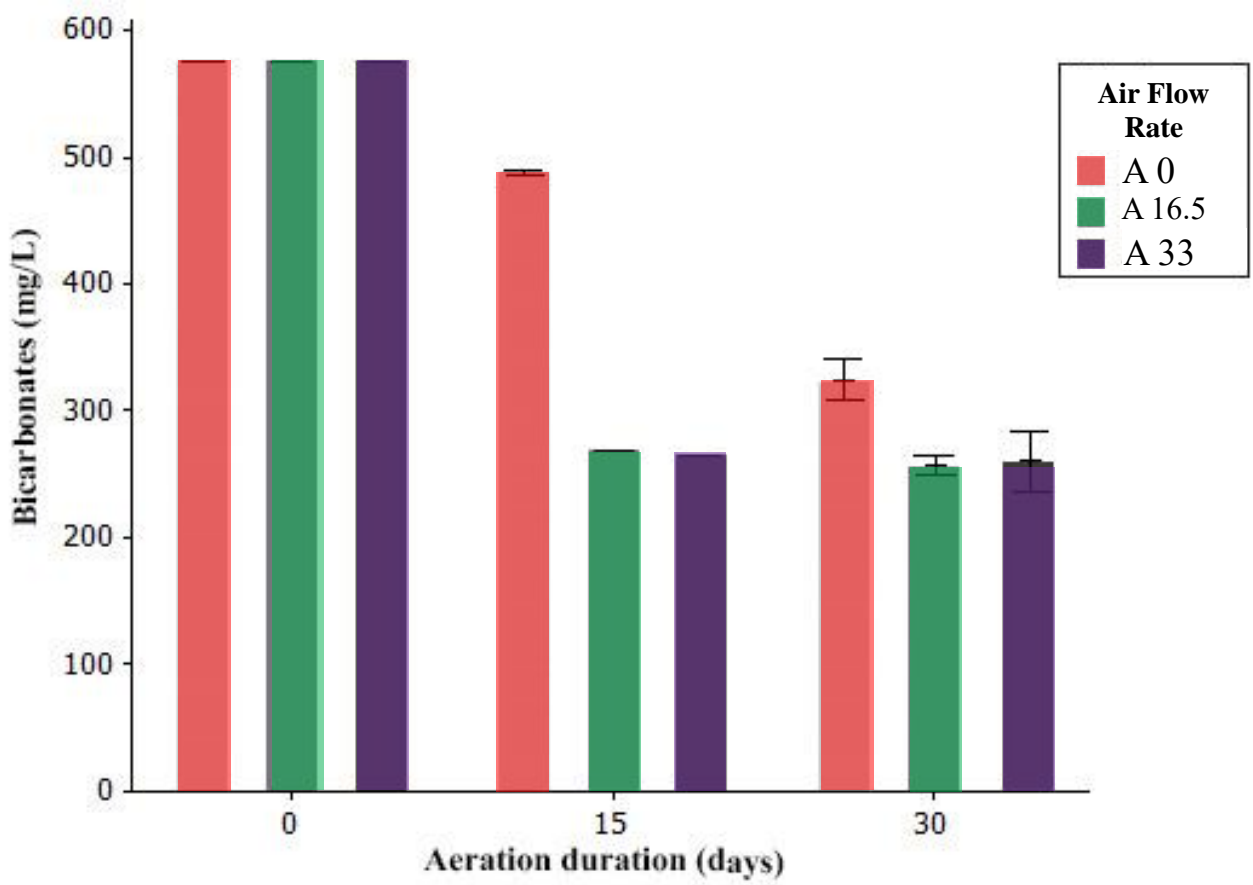


Figure S4. Effect of post-aeration on bicarbonates content of the treated wastewater

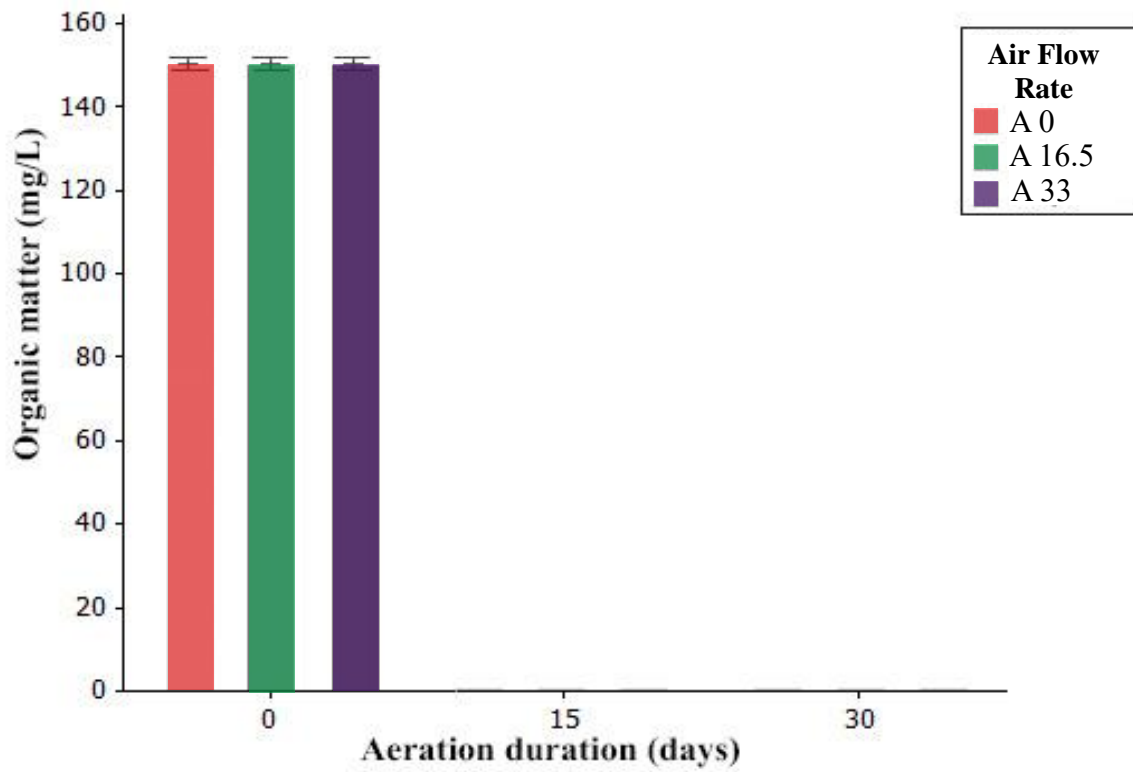


Figure S5. Effect of post-aeration on organic matter content of the treated wastewater

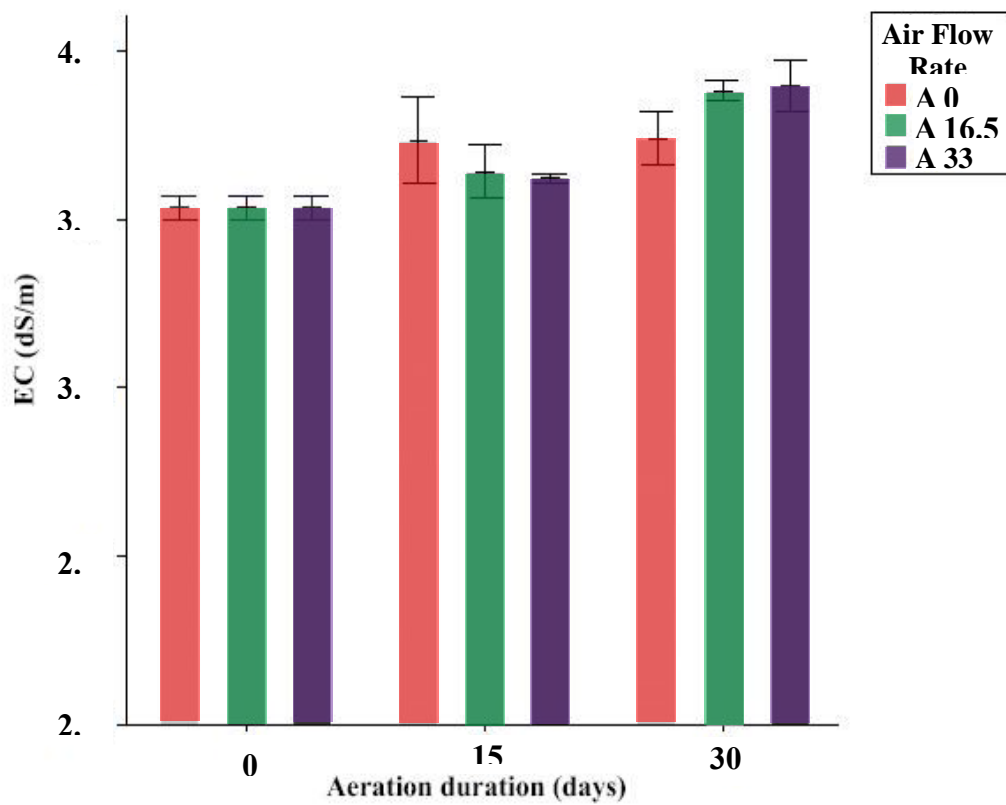


Figure S6. Effect of post-aeration on the EC of the treated wastewater

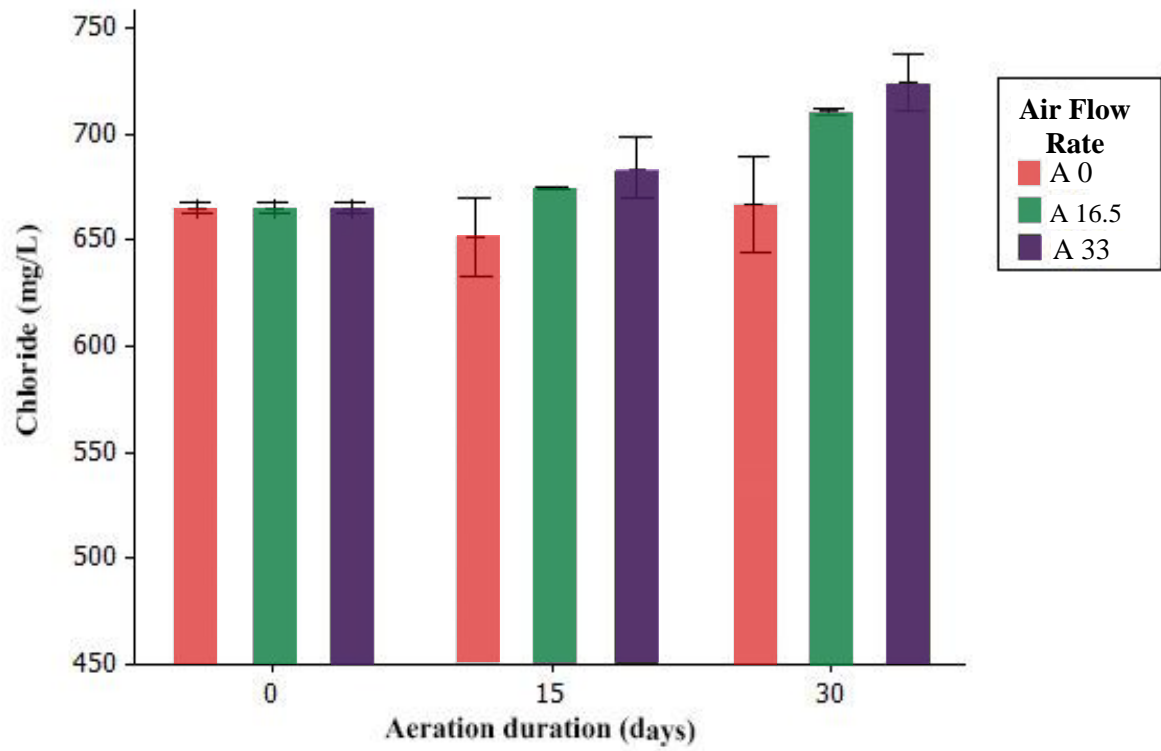


Figure S7. Effect of post-aeration on the chloride of the treated wastewater

Table S1. Application of an F-test to the data of elemental composition of the 13 regions of the monitored clogging deposit, reported in Table 3. Significance level: 0.05.

Element	Average % content	$S^2_{\text{between}}^a$	$S^2_{\text{within}}^b$	Degrees of freedom between	Degrees of freedom within	$S^2_{\text{between}} / S^2_{\text{within}}$	$p_{F\text{-test}}^c$
O	63	6.2	3.1	12	9	1.99	$1.5 \cdot 10^{-1}$
Ca	20	8.7	1.0	12	9	8.49	$1.6 \cdot 10^{-3} *$
P	8	4.0	0.8	12	9	5.18	$9.5 \cdot 10^{-3} *$
Mn	3.5	6.7	0.3	12	9	19.25	$5.9 \cdot 10^{-5} *$
Si	3.4	6.5	0.3	12	9	18.91	$6.4 \cdot 10^{-5} *$
Al	1.0	2.0	0.1	12	9	21.30	$3.9 \cdot 10^{-5} *$
Mg	0.8	0.4	0.1	12	9	5.29	$8.9 \cdot 10^{-3} *$
Fe	0.3	0.2	0.0	12	9	6.88	$3.5 \cdot 10^{-3} *$

^a Standard deviation between samples.

^b Standard deviation within samples (experimental error).

^c Probability that, on the basis of the comparison between the standard deviation between the 13 samples and the experimental error, there are no statistically significant differences between the % content of each monitored element in the 13 samples. The probabilities lower than the significance level (0.05), corresponding to statistically different compositions, are indicated with an asterisk.