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Nitrite oxidizing bacteria suppression based on in-situ free nitrous acid production at mainstream conditions

Alba Pedrouso^{a,}, Ángeles Val del Río^a, Nicolás Morales^b, Jose R. Vázquez-Padín^b, Jose L. Campos^c, Ramón Méndez^a and Anuska Mosquera-Corral^a*

^a Department of Chemical Engineering, School of Engineering, Universidade de Santiago de Compostela. E- 15705. Santiago de Compostela, Spain. E-mail: alba.pedrouso@usc.es; mangleles.val@usc.es; joseluis.campos@usc.es; ramon.mendez.pampin@usc.es; anuska.mosquera@usc.es.

^b Aqualia,Guillarei WWTP, Camino de la Veiga s/n, E-36720 Tui, Spain. E-mail: nicolas.morales.pereira@fcc.es; jvazquez@fcc.es.

^c Facultad de Ingeniería y Ciencias, Universidad Adolfo Ibáñez, Avda. Padre Hurtado 750, 2503500, Viña del Mar. Chile. E-mail: jluis.campos@uai.cl.

* Corresponding author

Abstract

The application of autotrophic nitrogen removal processes in the main line of wastewater treatment plants will contribute to achieve its self-energy-sufficiency. However, the effective suppression of nitrite oxidizing bacteria (NOB) activity at the conditions of low temperature and low ammonium concentration (mainstream conditions) was identified as one of the main bottlenecks. In this study, stable partial

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