Accepted Manuscript

Supernatant organics from anaerobic digestion after thermal hydrolysis cause direct and/or diffusional activity loss for nitritation and anammox

Qi Zhang, Siegfried E. Vlaeminck, Christine DeBarbadillo, Chunyang Su, Ahmed Al-Omari, Bernhard Wett, Thomas Pümpel, Andrew Shaw, Kartik Chandran, Sudhir Murthy, Haydée De Clippeleir

PII: S0043-1354(18)30487-1

DOI: 10.1016/j.watres.2018.06.037

Reference: WR 13864

To appear in: Water Research

Received Date: 14 March 2018

Revised Date: 5 June 2018

Accepted Date: 16 June 2018

Please cite this article as: Zhang, Q., Vlaeminck, S.E., DeBarbadillo, C., Su, C., Al-Omari, A., Wett, B., Pümpel, T., Shaw, A., Chandran, K., Murthy, S., De Clippeleir, Haydé., Supernatant organics from anaerobic digestion after thermal hydrolysis cause direct and/or diffusional activity loss for nitritation and anammox, *Water Research* (2018), doi: 10.1016/j.watres.2018.06.037.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



- Supernatant organics from anaerobic digestion after thermal hydrolysis cause direct and/or
 diffusional activity loss for nitritation and anammox
- 3
- 4 Qi Zhang^{1,2,3}, Siegfried E. Vlaeminck^{2,4,*}, Christine DeBarbadillo¹, Chunyang Su¹, Ahmed Al-Omari¹,

Bernhard Wett⁵, Thomas Pümpel⁶, Andrew Shaw⁷, Kartik Chandran³, Sudhir Murthy¹ and Haydée De
Clippeleir¹

7

- 8 1. DC Water, 5000 Overlook Ave. SW, Washington, DC 20032, USA
- 9 2. Center for Microbial Ecology and Technology (CMET), Faculty of Bioscience Engineering, Ghent
- 10 University, Coupure Links 653, 9000 Gent, Belgium
- 11 3. Department of Earth and Environmental Engineering, Columbia University, 500 West 120th Street,

12 New York, USA

- 13 4. Research Group of Sustainable Energy, Air and Water Technology, Department of Bioscience
- 14 Engineering, University of Antwerp, Groenenborgerlaan 171, 2020 Antwerpen, Belgium
- 15 5. ARAconsult, Unterbergerstr.1, A-6020 Innsbruck, Austria
- 16 6. Institut für Mikrobiologie, Technikerstr. 25, A-6020 Innsbruck, Austria
- 17 7. Black & Veatch, 8400 Ward Parkway, Kansas City, MO 64114, USA

18

19 * Corresponding author: <u>siegfried.vlaeminck@uantwerpen.be</u>

Download English Version:

https://daneshyari.com/en/article/8873528

Download Persian Version:

https://daneshyari.com/article/8873528

Daneshyari.com