Accepted Manuscript

Anaerobic digestion of microalgal bacterial flocs from a raceway pond treating aquaculture wastewater: Need for a biorefinery

Sofie Van Den Hende, Cedric Laurent, Marine Bégué

PII: S0960-8524(15)01020-2

DOI: http://dx.doi.org/10.1016/j.biortech.2015.07.058

Reference: BITE 15291

To appear in: Bioresource Technology

Received Date: 5 June 2015 Revised Date: 15 July 2015 Accepted Date: 17 July 2015



Please cite this article as: Van Den Hende, S., Laurent, C., Bégué, M., Anaerobic digestion of microalgal bacterial flocs from a raceway pond treating aquaculture wastewater: Need for a biorefinery, *Bioresource Technology* (2015), doi: http://dx.doi.org/10.1016/j.biortech.2015.07.058

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.

ACCEPTED MANUSCRIPT

1	Bioresource Technology
2	Title
3	Anaerobic digestion of microalgal bacterial flocs from a-raceway pond treating aquaculture
4	wastewater: Need for a biorefinery
5	
6	Authors
7	Sofie Van Den Hende ^{a, *} , Cedric Laurent ^a , Marine Bégué ^{a, b}
8	^a Laboratory of Industrial Water and Ecotechnology (LIWET), Department of Industrial
9	Biological Sciences, Ghent University, Graaf Karel de Goedelaan 5, B-8500 Kortrijk,
10	Belgium; phone: +32 (0)56 241236; fax: +32 (0)56 241224; sofie.vandenhende@ugent.be;
11	sofie_vdhende@yahoo.com; cedric.laurent.be@gmail.com; www.ugent.enbichem.be
12	^b Ecole des Métiers de l'Environnement (EME), Avenue Robert Schuman, F-35170 Bruz,
13	France; marinebegue@gmail.com; www.ecole-eme.fr
14	* Corresponding author
15	
16	
17	
18	
19	
20	
21	
22 23 24 25 26 27	Abbreviations AD: anaerobic digestion; BMP: biochemical methane potential; BMY: biochemical methane yield; Chla: chlorophyll a ; CHP: combined heat and power; COD: chemical oxygen demand; GEC: green electricity certificate; MaB-floc: microalgal bacterial floc; Pheoa: pheophytin a ; η_{AD} : AD conversion efficiency; RE: removal efficiency; μ_{model} : first order specific methane production rate; TS: total solids; TSS: total suspended solids; VS: volatile solids; VSS: volatile suspended solids

Download English Version:

https://daneshyari.com/en/article/7073403

Download Persian Version:

https://daneshyari.com/article/7073403

<u>Daneshyari.com</u>