

Accepted Manuscript

Enhanced Anaerobic Digestion Performance via Combined Solids- and Leachate-based Hydrolysis Reactor Inoculation

L. Paige Wilson, Sybil E. Sharvelle, Susan K. De Long

PII: S0960-8524(16)31145-2
DOI: <http://dx.doi.org/10.1016/j.biortech.2016.08.024>
Reference: BITE 16927

To appear in: *Bioresource Technology*

Received Date: 1 June 2016
Revised Date: 7 August 2016
Accepted Date: 8 August 2016

Please cite this article as: Paige Wilson, L., Sharvelle, S.E., De Long, S.K., Enhanced Anaerobic Digestion Performance via Combined Solids- and Leachate-based Hydrolysis Reactor Inoculation, *Bioresource Technology* (2016), doi: <http://dx.doi.org/10.1016/j.biortech.2016.08.024>

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.



Enhanced Anaerobic Digestion Performance via Combined Solids- and Leachate-based Hydrolysis Reactor Inoculation

L. Paige Wilson^{a1}, Sybil E. Sharvelle^a, Susan K. De Long^{a*}

^aDepartment of Civil and Environmental Engineering,

Colorado State University,

1301 Campus Delivery, Fort Collins, CO 80523, USA

paige.wilson@colostate.edu, sybil.sharvelle@colostate.edu, susan.de_long@colostate.edu

¹Present address: Hazen and Sawyer, 545 Mainstream Drive, Nashville, TN 37228, USA.

*Corresponding author. Present address: 1301 Campus Delivery, Fort Collins, CO 80523, USA.

Tel.: (970) 491-6606. E-mail: susan.de_long@colostate.edu

Abbreviations: AD¹, DWWTP², OFMSW³, OTU⁴, MDS⁵, TAN⁶, T-RFLP⁷, T-RFs⁸, OLR⁹

¹ Anaerobic digestion

² Drake Municipal Wastewater Treatment Plant

³ Organic fraction municipal solid waste

⁴ Operational taxonomic unit

⁵ Non-metric multi-dimensional scaling

⁶ Total ammonia nitrogen

⁷ Terminal restriction fragment length polymorphism

⁸ Terminal restriction fragments

⁹ Organic loading rate

Download English Version:

<https://daneshyari.com/en/article/7069585>

Download Persian Version:

<https://daneshyari.com/article/7069585>

[Daneshyari.com](https://daneshyari.com)