

## Accepted Manuscript

Title: Influence of co-substrate on textile wastewater treatment and microbial community changes in the anaerobic biological sulfate reduction process

Author: Kashif Rasool Khaled A. Mahmoud Dae Sung Lee



PII: S0304-3894(15)00581-6  
DOI: <http://dx.doi.org/doi:10.1016/j.jhazmat.2015.07.044>  
Reference: HAZMAT 16971

To appear in: *Journal of Hazardous Materials*

Received date: 15-5-2015  
Revised date: 4-7-2015  
Accepted date: 16-7-2015

Please cite this article as: K. Rasool, K.A. Mahmoud, D.S. Lee, Influence of co-substrate on textile wastewater treatment and microbial community changes in the anaerobic biological sulfate reduction process, *Journal of Hazardous Materials* (2015), <http://dx.doi.org/10.1016/j.jhazmat.2015.07.044>

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## Highlights

- Textile wastewater treatment performance was investigated with different co-substrates.
- Dye biodegradation and biotransformation enhanced with lactate as co-substrate.
- Sulfate removal significantly decreased under limited co-substrate concentration.
- Changes in microbial community structure were studied using bar-coded pyrosequencing
- Lactate as co-substrate showed the highest relative abundance of sulfate reducing bacteria

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