

## عنوان مقاله:

(Dairy Wastewater Treatment using Three-Stage Rotating Biological Contactor (NRBC

محل انتشار: ماهنامه بین المللی مهندسی, دوره 22, شماره 2 (سال: 1388)

تعداد صفحات اصل مقاله: 8

نویسندگان: Ghasem Najafpour - Biochemical & Chemical Engineering, Noshirvani University of Technology, Babol

M. Asadi - Civil Engineering, University of Mazandaran

A. Ebrahimi - Civil Engineering, University of Mazandaran

## خلاصه مقاله:

Dairy wastewater is enriched in organic matter (about  $\delta$ -VY g/l, COD) and also contains biodegradable carbohydrates. A three-stage system, NRBC was fabricated as a bench scale unit for lab experiments, to remove organic carbon from the whey. The fabricated NRBC had several advantages, such as quick start-up, high biomass concentration and was additionally able to handle high organic loading rates. In this study, the COD removal efficiencies of  $\Lambda$ - and  $\Lambda$ ° percent were achieved at HRT of  $\lambda$  and  $\gamma$ ° h, respectively. While the HRT was increased to  $\gamma$  h, the COD removal efficiency was increased to  $\gamma$ percent. High surface COD loading rate of  $\gamma$ - $\gamma$ - $\gamma$ - $\gamma$  g COD/m $\gamma$ .day was achieved. The high organic loading rate of whey was successfully treated in the .fabricated NRBC. The COD removal efficiency of  $\beta$  percent was achieved, while the discs surface was increased by  $\lambda$ - percent

> کلمات کلیدی: Whey, Dairy Wastewater, RBC, COD removal

> > لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1392455

