

Adaptable Process Design as a Key for Sustainability Upgrades in Wastewater Treatment: Comparative Study on the Removal of Micropollutants by Advanced Oxidation and Granular Activated Carbon Processing at a German Municipal Wastewater Treatment Plant

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Introduction

- Research was and is being performed at Landau on the effluent from the WWTP
- Aiming for an average of >80% removal efficiency of found pharmaceuticals

Method

- Comparing Advanox and GAC on their ability to remove micropollutants



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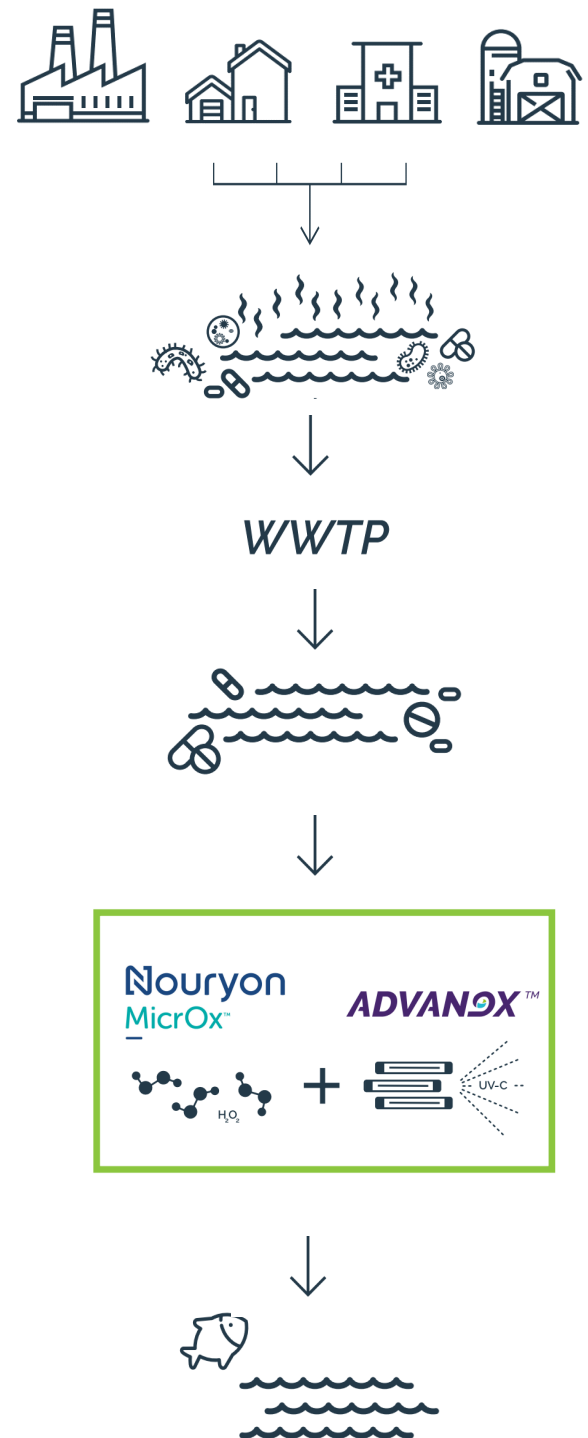
Results

- Advanox removal efficiency 66-91% and a greater flexibility and adaptability
- GAC started with >95% but dropped below 80%

Discussion

- Limitations on the view of sustainability - Other research showed Advanox has less CO₂-eq contribution over 15 years compared to GAC
- Importance of finding synergies between technologies normally considered competing

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