

Circular Flanders: algae grown in poultry farm wastewater

Introduction



Water used to clean poultry stables (N and P rich) => algae => feed for chicken

(Liquid manure)



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Wastewater regulatory questions

Poultry wastewater as such:

- Not allowed to use (liquid manure)
- Pretreatment of the water to remove solids: what is the status of these solids?
- If we are allowed to use the wastewater, which parameters need to be checked for?
- What if we incorporate the use of rain/ground water?

Poultry wastewater after growth of microalgae:

- Status of the water after growth of microalgae? N & P largely removed => still liquid manure?
- What parameters need to be checked for the wastewater to be drained into the sewage?

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Microalgae grown in wastewater: regulatory questions

Microalgae (quality):

- If microalgae are grown in the wastewater: what is the status of these microalgae? => For what can they be used? Food? Feed? Fertiliser? Biostimulants? Biomass for energy?
- What parameters (quality/safety) need to be tested? E.g. micro-organisms? Pollutants? Toxins?
- When do we need to test for the above parameters? In liquid phase ? Pasta? Dried end-product?

