

REMOVING ALGAE FROM TERTIARY TREATMENT PONDS

CASE STUDY



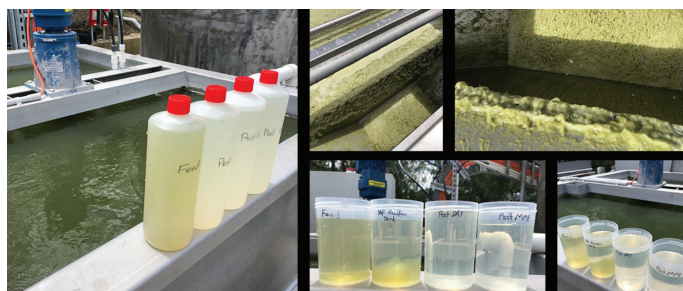
HYDAF SYSTEM

Hydroflux Industrial has again demonstrated the effectiveness of the HyDAF HD Dissolved Air Flotation (DAF) systems, and proven their experience with Algae removal, after the completion and successful operation of a tertiary treatment plant for a leading gourmet chicken processor in Australia.

An increasing issue caused by drought is the stagnation of rivers, ponds, dams and streams promoting the growth of algae. Algae is also an issue in tertiary wastewater treatment ponds where residual nutrients can provide the ideal environment for excessive algal growth.

CLIENT'S NEEDS

Hydroflux's client needed a robust and reliable solution for their post biological treatment irrigation water to secure the longevity of the plant and future expansion of the processing line. They required a system that would provide algae removal, phosphorous (P) removal, and a significant reduction in E.coli.



OUR SOLUTION

Hydroflux achieved this by providing an engineered system capable of achieving greater than 98% P removal and 99.9% E.coli removal.

OUTCOME

Once a HyDAF HD algae treatment process has been optimised with correct chemistry, flocculant and recycle rate, a significant volume of algae can be removed with exceptional water quality as a result.

Key Benefits:

- High volumes of algae removal possible.
- Phosphorous is also removed.
- This site achieved:
 - > 98% P removal
 - > 99.9% E.Coli removal

Hydroflux has seen a significant increase in interest in Algae removal lately due to the climatic conditions in Australia, and the HD range of Dissolved Air Flotation (DAF) systems are an ideal algae removal device that can operate from small to very large flowrates. The proven technology in Hydroflux's DAF's along with the exceptional results being obtained from sites such as above we expect to see many more DAF installations for Algae removal in Australia and New Zealand.