



SOILIFE AUSTRALIA BIOAQUALIFE WATER TREATMENT

SoiLife Australia has developed a unique water treatment formulation, called *BioAquaLife*, containing beneficial micro-organisms that assist in purifying water by creating a biologically active antioxidant environment, which acts to lower the organic and contaminant load of dissolved compounds in the water by decomposing them into harmless inactive substances.

The Role of Micro-Organisms

Water has biology, just like soil, which can be affected by imbalances or contaminants in standing water (eg, tanks, ponds, troughs, septics, etc.). Organic waste materials within water originate from plants, animals or synthetic organic compounds, and enter wastewater via a number of routes including human wastes, detergents and industrial sources.

Anaerobic micro-organisms play a significant role in the treatment of wastewater such as in municipal and domestic on-site sewage systems. Many different organisms live within the wastewater itself, assisting in the breakdown of certain organic pollutants. For example, within on-site systems (eg, septic tanks), micro-organisms play a significant role in the decomposition of organic wastes.

The removal of ammonia and nitrates involves both aerobic and anaerobic conversion stages. In the aerobic conversion stage, bacterial species are involved in converting ammonia to nitrite and nitrite to nitrate. These two processes together are commonly known as nitrification. The anaerobic bacteria then convert nitrate to atmospheric nitrogen gas.



This process, called de-nitrification, is the reverse of the nitrification process. Nitrogen gas can be freely released into the atmosphere without causing environmental damage.

Phosphates can be removed by aerobic bacteria that accumulate them as polyphosphates in their cell tissues. Polyphosphates then decompose as energy is used up by the bacteria, causing the effective release and reduction in phosphate levels in the wastewater.

OUR TESTING AND TRIAL RESULTS SHOW THAT SOILIFE AUSTRALIA BIOAQUALIFE WATER TREATMENT WILL EXPEDITE AND ENHANCE IMPROVEMENT OF:

- Building sustained soil fertility for increased crop health and yield
- Plant & animal immunity to pests & disease
- Organic decomposition of matter, Nitrates and Phosphates in Leachate ponds
- Toxicity reduction in contaminated ponds, dams and other still water bodies
- Biological health of sewage and septic systems
- Water vitality in animal troughs and water tanks, as probiotic to rebuild gut health

PARTICULARLY WHEN USED IN COMBINATION WITH OTHER SOILIFE AUSTRALIA PRODUCTS!



SoiLife Australia is dedicated to supporting the health and sustainability of Agricultural production, our Community and the 'Natural Environment', which all depend on soil for survival. We formulate superior ecological products, all of which have been subject to research and trialing, are non-harmful, non-pathogenic, non-genetically modified and not chemically synthesized.