

# MicroBalance



- ✓ With the power of beneficial microbes and organic acids
- ✓ Improves organic breakdown (reduces putrefaction/ sludge)
- ✓ Odour control (hydrogen sulfide, ammonia, nitrous oxide and methane)
- ✓ Reduces nutrient loads that cause pathogen and algal blooms
- ✓ Flies will not be attracted

**Multikraft Probiotics** is a world leader in multi-strain microbe technology. MicroBalance is a mixture of various microbial species such as:

**Lactic acid bacteria including Lactobacillus casei and Lactobacillus plantarum** - Highly competitive, commonly found in many fermented foods, these organisms quickly dominate the anaerobic microbial population, and within 48 hours, begin to produce lactic and acetic acids, further diminishing their competition whilst also acting as an effective biological pre-treatment for lignocellulosic biomass. These bacteria work to inhibit pathogens and were first isolated from saliva, making them very good at digesting organic matter.

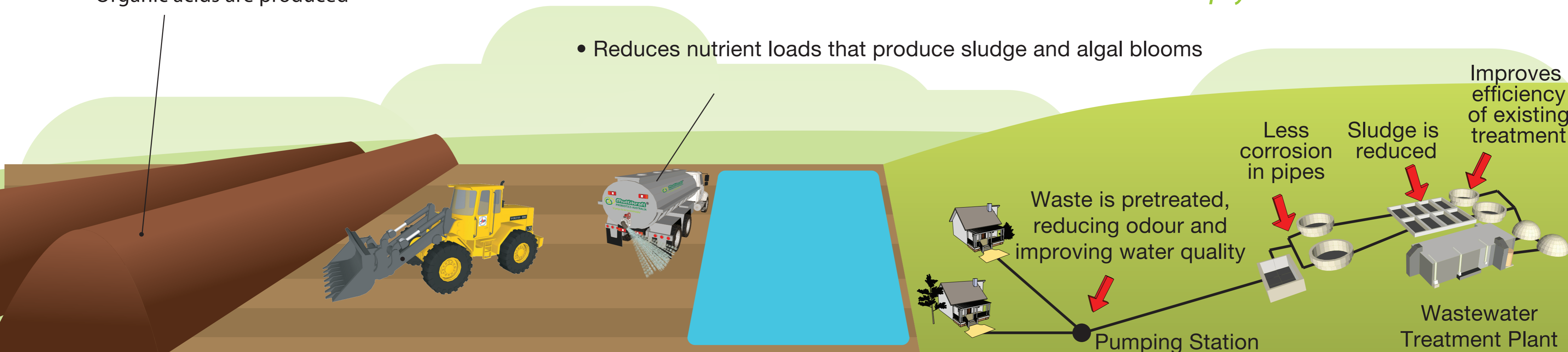
**Photosynthetic bacteria including Rhodospseudomonas palustris** - Fixes nitrogen and consists of a variety of genes that are responsible for biodegradation. Including metabolising lignin and acids found in degrading plant and animal waste by metabolizing carbon dioxide. In addition, it can degrade aromatic compounds found in industrial waste. This bacterium is an efficient biodegradation catalyst in both aerobic and anaerobic environments.

**Nitrogen fixing bacteria including Acetobacter species** - Fixes nitrogen, naturally enhances plant growth.

**Yeasts including Saccharomyces cerevisiae** - Plant steroids that induce the plants natural defence responses and a key component in fermentation, producing metabolites and proteins for other microbes.

- Organic waste composted by fermentation
- Less nutrients lost as odour
- Organic acids are produced

- Reduces nutrient loads that produce sludge and algal blooms



**MicroBalance** promotes odour-free decomposition of persistent substances in composting, waste water and sewage sludge treatment. MicroBalance is widely used in waste water and waste management. It can be used in cesspits, septic tanks, small sewage works and municipal sewage works. Organic acids and enzymes are produced which assist in neutralising odours.