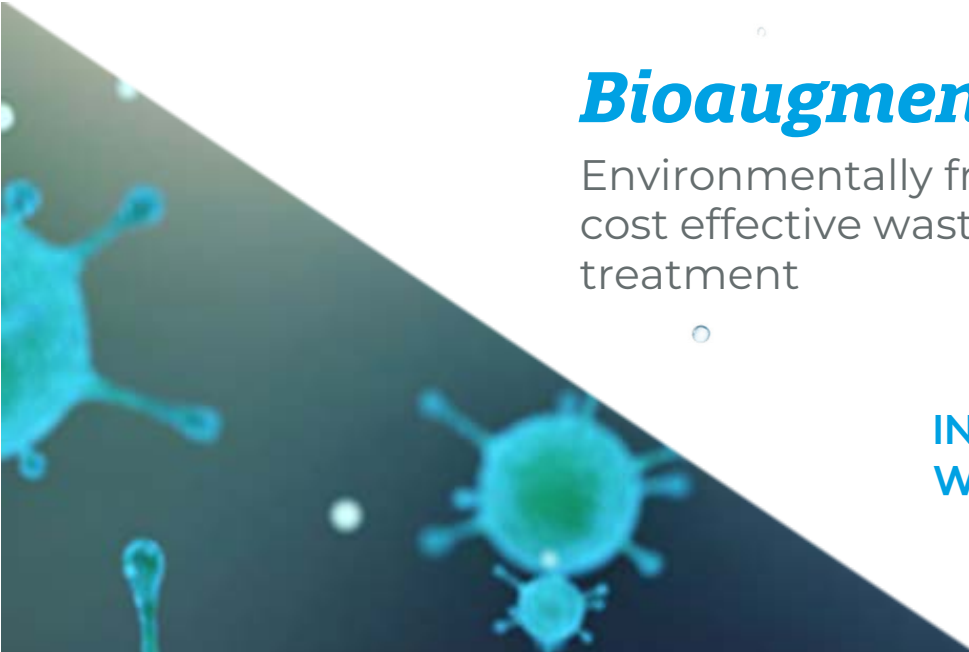


A large, dynamic splash of water in various shades of blue, overlaid with a semi-transparent geometric pattern of triangles and polygons. The water appears to be moving from the top left towards the bottom right.

Bioaugmentation

Environmentally friendly and
cost effective wastewater
treatment

A dark blue triangular area in the bottom left corner containing several glowing green, spiky, spherical shapes that resemble microscopic organisms or viruses.

INNOVATION IN WASTE
WATER TREATMENT

BIOAUGMENTATION

Environmentally friendly and cost effective wastewater treatment

Bioaugmentation is a general term to describe the addition of bacteria and or enzymes into a waste material to remove biological or chemical waste.

Historically, the main process for wastewater treatment has been through intensive chemical treatments, with the greatest challenge being to reduce the contamination of these chemical additives via a second step procedure.

Eco-friendly treatment products are based on specific formulations of naturally occurring microbes, enzymes and plant extracts. We carefully blend these components with nutrient sources and carriers to create natural high-performance alternatives to traditional chemical treatments.

Cost effective and efficient treatment

Bioaugmentation is a cost effective treatment that requires little energy consumption. BOD, TSS and FOG can all be reduced significantly, with the bacteria particularly effective at metabolising emulsified FOGs - a common problem with other treatments.

Chemical consumption can be significantly reduced or eliminated, reducing ongoing expenditure, maintenance costs, impact of the environment and extending equipment life.

In some instances a simple dosing system can be added to an existing plant to improve efficiency and save money!

Environmentally friendly

All strains of the bacteria are naturally occurring soil microorganisms that are harvested and enhanced. They are safe to humans, animals and aquatic life, unlike the chemicals used in other treatments.

It is possible to achieve reduction of COD, TSS and FOGs in line with the Environmental Agency standards for discharge to groundwater or watercourse.



Before



After

FEATURES AND BENEFITS

- Environmentally friendly
- Works continuously in the eco-system
- Adds rather than takes away
- Harmless – non toxic
- Simple
- Cost effective
- Reduce FOG rapidly, including emulsified FOG
- Reduce FOG, BOD and TSS
- Increase dissolved oxygen

Industries

Biodiesel	Oil Drilling / Salt
Chemicals	Water Disposal
Food & Beverage	Parts Washing
Fuel Distribution	Petrochemical
Marine	Power Generation
Metal Machining	Plants
Military	Railroad
Mining	Steel Production
	Tank Truck Wash

Why choose Bioaugmentation over DAF?

Chemical DAF plant

- **Highly efficient, but:**
- High capital costs
- High operating costs
- Expensive chemicals
- Hazardous substances
- Damaging to the environment

Bioaugmentation

- Low capital costs
- Low operating costs
- Environmentally friendly
- Highly efficient when used with other pre-treatments
- No odours or noxious gases

More on the bacteria

- All Strains are naturally occurring microorganisms that are harvested and enhanced
- All microorganisms are non-disease-causing agents
- Enzymes are all naturally occurring and are of microbial action, not animal or chemically derived
- All products safe to Humans, Animals and Aquatic Life