

# Bioclean™

Reduces Total Phosphorus in Your Effluent

Save OpEx on Ferric or Alum dosage by 40-100% reduction, while having lower Total Phosphorus concentration in your effluent than before!



**MalaTECH**  
water

## How do we do it?

Bioclean™ bioaugmentation significantly **improves the efficiency of Biological Phosphorus Removal (Bio-P)** at every wastewater treatment plant, where the technological and environmental conditions are given for this biological process in space or time (Dissolved Oxygen-free and Nitrate-free environment, continuously stirred tank reactor, presence of readily biodegradable organic substances in the bulk solution).



By the improvement of the Bio-P bacteria's metabolism, Bioclean™ bioaugmentation **optimizes Polyphosphate formation** in the anaerobic reactor (or anaerobic time in case of SBR's), as well as the **excess Phosphorus uptake rate** in the aerobic zone (or aerobic time in case of SBR's). A well-executed bioaugmentation with **Bioclean™ ensures Total Phosphorus concentrations constantly well below 0.7 mg/l in the effluent even without any addition of Ferric or Alum salts.**

Bioclean™ bioaugmentation also **improves nutrient utilization**, which means that our treatment biologically **improves Phosphorus removal even at those wastewater treatment plants which do not have Bio-P reactors**, so the chemical usage drops there as well.

## Applicable at:

Industrial, and municipal **activated sludge, granular sludge, MBBR** wastewater treatment plants, both at continuous flow, or SBR technologies, aerated lagoons, oxidation ditches, trickling filters, rotating biological contactors.