BIOTIFX®
WASTEWATER TREATMENT

Biotifx® ULTRA

Biotifx® ULTRA is a complete, robust product used in a variety of wastewater treatment systems to alleviate challenges associated with FOG, sludge, odor and hydrogen sulfide (H_2S).

This powder product is formulated with a blend of *Bacillus* strains scientifically selected for their ability to digest a broad range of organic material. The formulation is enhanced with the addition of a proprietary blend of micronutrients and biostimulants to heighten performance of the microorganisms.

	CHALLENGE	SOLUTION
FOG Accumulation	FOG build-up in collection and treatment systems causes backups, septicity, equipment failure, foaming, and floating solids. Typically, costs are high when physically removing FOG from the system.	Biotifx® ULTRA improves digestion of FOG, removing it from the system as CO_2. This digestion pro-actively reduces accumulation in the system, reducing labor and capital investment costs.
Sludge Handling and Disposal	Excessive sludge yield can reduce system capacity. When facilities haul pressed or liquid sludge off-site for disposal, it brings with it a significant cost.	Biotifx® ULTRA improves digestion, settling, and dewatering. By reducing the amount of sludge, facilities can lower the amount of money spent on sludge handling and disposal.
Odor Control	Neighbor relations, lawsuits, and potential fines are all common challenges associated with odors. Common odor control treatment requires costly chemicals, specialized equipment and additional labor.	Biotifx® ULTRA prevents the formation of biological acids and other odorous compounds. As a result, reducing the potential for complaints and lawsuits without costly chemicals or equipment.
Hydrogen Sulfide (H_2S)	The production of hydrogen sulfide (H_2S) can lead to complaints, serious safety risks, and corrosion of mechanical and electrical components. Conventional treatment is non-preventative, expensive, and capital intensive.	Bioaugmentation inhibits the bacteria responsible for the formation of H_2S. Treatment with Biotifx® ULTRA reduces and/or eliminates complaints, corrosion, and safety risks. It also prevents the need for conventional treatment.

MDG
MICROBIAL DISCOVERY GROUP
MDGBio.com 5200 W. Ashland Way, Franklin, WI 53132 414-235-3767

BIOTIFX
WASTEWATER TREATMENT

Dosing

For specific dosing recommendations, speak with your service provider and/or review the system application sheet. The typical dose is between 0.5-5 mg/L of system flow, depending on system design and loading method.

For certain applications, the product should be hydrated in potable water at a ratio of 1kg/2.5 gallons of water (1:10 ratio) for 1-8 hours and then poured into the designated dosing location. If the situation does not allow for hydration, the product can be applied directly.

Applications

- Lagoons
- Aeration Basins
- Force Mains
- Grease Interceptors
- Lift Stations
- Activated Sludge Systems

Case Study Data

Treatment with Biotifx® ULTRA resulted in the removal of 1,290 dry tons of sludge and a **dredging savings of $5.6 million.**

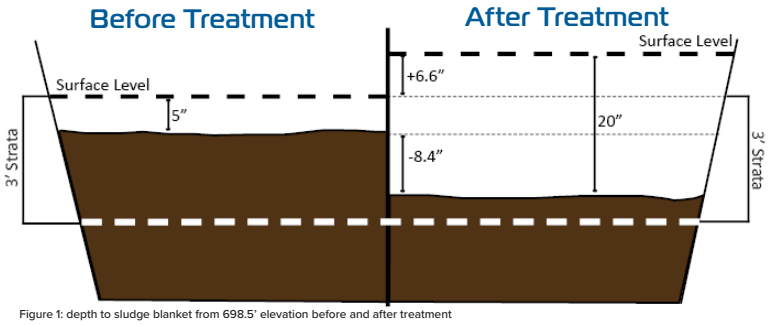
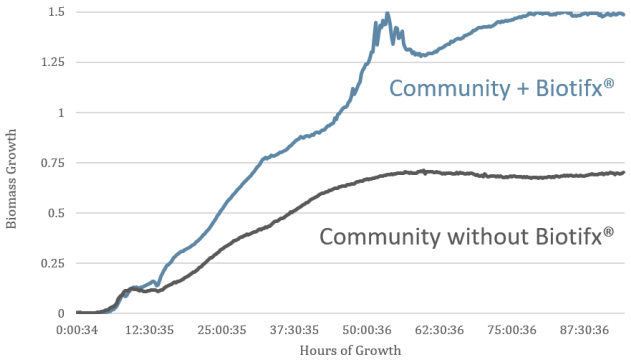


Figure 1: depth to sludge blanket from 698.5' elevation before and after treatment

This laboratory data depicts a sample of wastewater that was grown both with and without the addition of Biotifx® ULTRA. The results show that growth of the natural flora increased with use of Biotifx® ULTRA. On a larger scale within a wastewater treatment plant, enhanced natural flora increases sludge digestion and reduces odor and H_2S production.



MDG
MICROBIAL DISCOVERY GROUP
MDGBio.com 5200 W. Ashland Way, Franklin, WI 53132 414-235-3767