



# BIOTIFX<sup>®</sup>

WASTEWATER TREATMENT

## Biotifx<sup>®</sup> Liquid Max

Biotifx Liquid Max is a concentrated liquid product used in a variety of wastewater treatment systems to alleviate challenges associated with hydrogen sulfide (H<sub>2</sub>S), fats, oils, grease (FOG), sludge and odor.

Biotifx Liquid Max is formulated with a blend of *Bacillus* strains scientifically selected for their ability to degrade a broad range of material. It is also enhanced with a proprietary blend of micro-nutrients and biostimulants to heighten performance of the microorganisms. Application is easy with the product being delivered to the system via an automated dosing pump.

### Available in:

- 5-gallon pail
- 55-gallon drum

	CHALLENGE	SOLUTION
<b>Fats, Oils and Grease (FOG) Accumulation</b>	FOG build up in collection and treatment systems causes backups, septicity, equipment failure, foaming and floating solids. This reactively requires costly physical removal from the system.	Biotifx Liquid Max improves digestion of FOG, removing it from the system as carbon dioxide (CO <sub>2</sub> ). This proactively reduces accumulation in the system, reducing labor and capital investment costs.
<b>Sludge Handling and Disposal</b>	Hauling pressed or liquid sludge to a landfill or for land application incurs a significant cost to facilities. Additionally, excessive sludge yield can reduce system capacity.	By reducing the amount of sludge through bioaugmentation with Biotifx Liquid Max, facilities can lower expenses associated with sludge handling and disposal.
<b>Odor Control</b>	Community relations, lawsuits and potential fines are common challenges when dealing with odors. Odor control equipment and chemistries are costly and often require specialized labor to manage.	Biotifx Liquid Max prevents the formation of biological acids and other odorous compounds, reducing the potential for complaints and lawsuits without costly chemicals or equipment.
<b>Hydrogen Sulfide (H<sub>2</sub>S)</b>	The production of H <sub>2</sub> S leads to complaints, corrodes mechanical and electrical components, and poses serious safety risks for operators and those around the facility. Conventional treatment is non-preventative and expensive.	Biotifx Liquid Max inhibits the bacteria responsible for the formation of H <sub>2</sub> S, reducing and in some cases eliminating complaints, corrosion and safety risks. This also prevents the need for conventional treatment.



## Dosing

For specific dosing recommendations, review our system application sheet and/or speak with your service provider. Typical dosing volumes are between 1-10 ppm based on flow and are applied with an automated dosing pump.

## Applications

- Collection systems
- Small wastewater treatment plants
- Industrial and municipal grease interceptors
- Lagoons
- Septic systems



## Case Study Data

The Biotifx collection system treatment plan was implemented on a two million gallon/day section of sewer to reduce H<sub>2</sub>S production and FOG accumulation. We compared the effect of treatment to when it was untreated and summarized the results in Figures 1 & 2.

Figure 1. FOG accumulation in Lift Station over time.

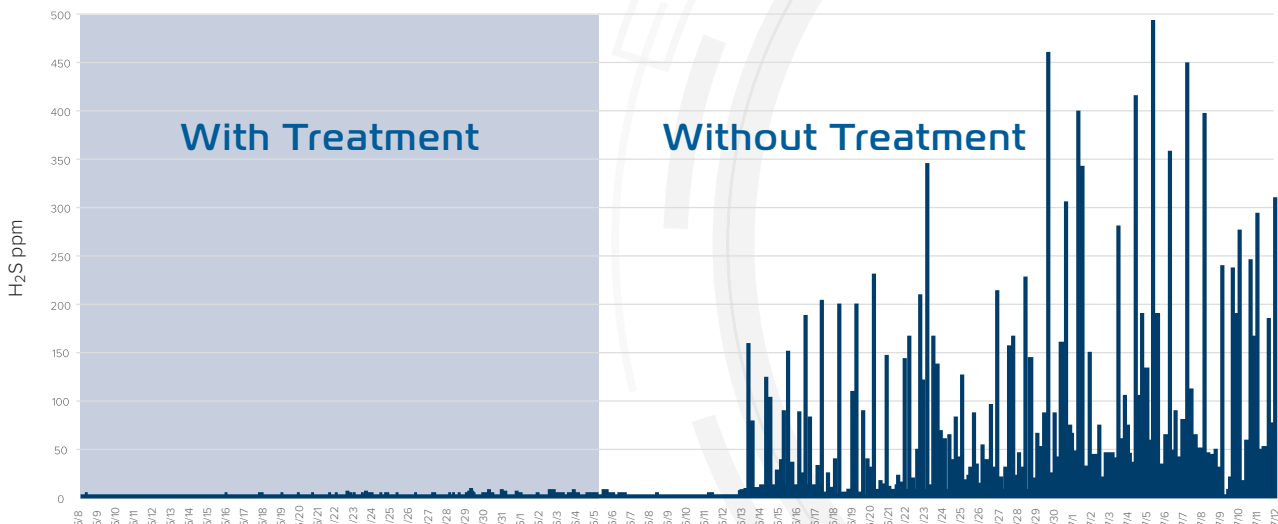
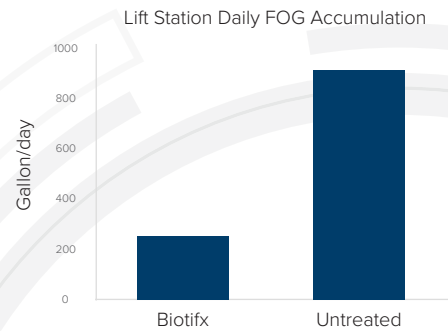


Figure 2. H<sub>2</sub>S concentrations with and without treatment, measured by gas monitor in real time. H<sub>2</sub>S gas levels increased dramatically within one week of discontinuing treatment.