



Lift Station Pains & How BioPro SRL Helps

Lift stations are everywhere, and they often have chronic pains which are best resolved with bioaugmentation.

Background

It's not hard to notice a problematic lift station, chances are all you have to do is walk down the road and you'll smell one. **Operators encounter frequent corrosion of metal and electrical components due to hydrogen sulfide (H2S) and odors.** While odors and H2S aren't the only pains; they are easily noticed. This brings huge value to a solution that removes and prevents the odors and H2S that plague lift stations at the source. Lift stations also trap fat, oil and grease (FOG) and sludge which accumulates inhibiting functionality of a lift station. These solids will require regular vacuuming and/or sewer jetting to be removed. A single vacuum /jetting event will often cost thousands of dollars. **The ability to reduce or eliminate this removal cost and improve lift station functionality brings a huge return on investment.**

Applications

How Does BioPro SRL Work in Lift Stations?

BioPro SRL contains scientifically selected, high performing beneficial bacteria, coupled with bio-stimulants and micronutrients to work through multiple modes of action to reduce sludge, FOG, odors, and H₂S. BioPro SRL effectively removes biofilms and sludge by using them as a food source.

Odors and H₂S are produced by bacteria and thrive in biofilms, sludge and anaerobic conditions. We reduce these pains by digesting the sludge and biofilms that harbor the odor producing bacteria. Additionally, BioPro SRL utilizes the sulfur and odorous compounds as a food source.



FOG and sludge accumulation blocking equipment (top)
H₂S corrosion & FOG (above)

PROBLEM	DESCRIPTION OF CHALLENGE	HOW BIOPRO SRL HELPS
Pumping, Jetting, and Clean-Out Costs	Solids, Fats, Oils, and Grease (FOG) can build up in lift stations and sewer lines which require physical removal from the system at a high cost.	Reduced Pumping, Jetting, and Clean-Out Costs Our biological treatment will digest solids and FOG, preventing them from becoming problem causing buildups.
Corrosion and Equipment Failures	Solids and FOG buildup can cause failure of equipment. Additionally, they lead to production of H ₂ S and biological acids that severely corrode mechanical and electrical components.	Prevents Corrosion and Equipment Failure Digestion of solids, FOG, and organic acids while stopping H ₂ S formation eliminates costs associated with corrosion and equipment failure.
Odor Complaints	Complaints from the community and operator safety are prevalent issues in lift stations and force mains due to the formation of H ₂ S and biological acids.	Improved Safety and Fewer Odor Complaints Digestion of organic acids and prevention of H ₂ S results in improved human safety and less discomfort to the community
Costly Chemical Treatments	Common chemical treatments for odors, H ₂ S, and FOG are costly and require specialized equipment and labor to manage. Most importantly, chemicals don't address the issues; just push them downstream.	Avoid Costly Chemical Treatment Supplying a solution that prevents challenges at the source before they form, with reduced labor and no capital investment.