

Reducing TSS/BOD Wastewater Discharge & Service Charges

Spiral Water's proven water & wastewater filtration systems help companies realize significant savings by significantly reducing TSS/BOD wastewater discharge service charges. Not only do our filters mitigate the need for expensive water hauling and disposal—they also increase plant uptime by providing continuous high-solids removal at lower micron levels without plugging.

Municipal TSS/BOD wastewater service charges are rising,

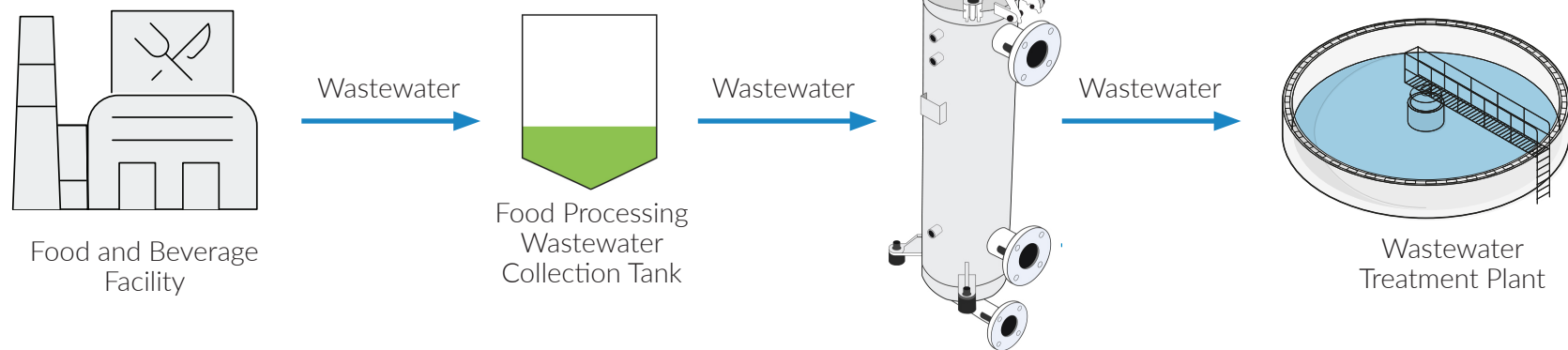
- TSS surcharges: \$0.40–\$1.20 per lb.
- Typical 100,000 gpd plant saves: \$8k–\$18k/month

Forcing industrial facilities to:

- Reduce OpEx costs
- Look for investment that increases uptime
- Look for a simple add-on solution vs. a complicated approach
- Measure ROI in months

How Spiral Water automatic TSS reduction systems help:

- Removes solids 10–25 μm , automatically
- Lowers TSS, which also reduces a significant % of BOD
- Immediate reduction in municipal fees
- Compact footprint—easy retrofit



Core Applications



Pharma



Food Processing



Industrial Wastewater



Biogas

Why Spiral Water?

Spiral Water's innovative filters and control systems provide end-users with exceptional performance and peace of mind.

Engineered with our patented technology, our automated filtration systems provide security for process systems that require finer filtration and are also affected by variable TSS and high solids loading (i.e., unexpected increases in normal TSS solids caused by storms and/or system upsets).

What differentiates us from other “self-cleaning backwash filters” is our ability to manage TSS above 500+ ppm. Our patented internal mechanical cleaning mechanism spins off tip vortices, creating a unique hydrodynamic agitation that more effectively keeps the filter clean while maintaining a constant differential pressure across the filter. This keeps our filters online and working when other filters would overload and fail.

In addition, Spiral Water filters automatically manage upset conditions as high as 20,000 ppm without the need of operator assistance. In multi-filter processes, Spiral Water Filter Systems provide the best first line of defense.



Spiral Water Technologies Patented Inline Pressure Filter Systems Are Unique:

- Our Model T1000 and Model 850 Automatic Systems are field-proven, solving higher solids separation challenges.
- They provide separation from 10 micron to 4mm as well as continual process filtration even during cleaning.
- Smart System controls provide hands-off variable TSS loading. Less labor translates into lower OpEx.
- Our systems require just a small footprint, are simple to maintain, and are modular and scalable.
- Because they provide filtration + solids concentration, we can concentrate then discharge, thus saving water.
- Continuous filtrate at 99% produces less water-to-waste, making it a smart component in any water recovery solution.
- Spiral Water sends 90% less water to waste discharge than backwash screen and sand/multimedia filters. Our filters operate effortlessly at low system pressures as low as 10 psig - no pulsing. Compare this with backwash filters, which need 30 psi+.
- Retrofits require no additional pump modifications.
- We offer engineering services for customized solutions to exactly meet the customer's needs.
- **Manufactured in the USA, our filters are the most reliable automatic filters for TSS over 200 ppm on the market today.**