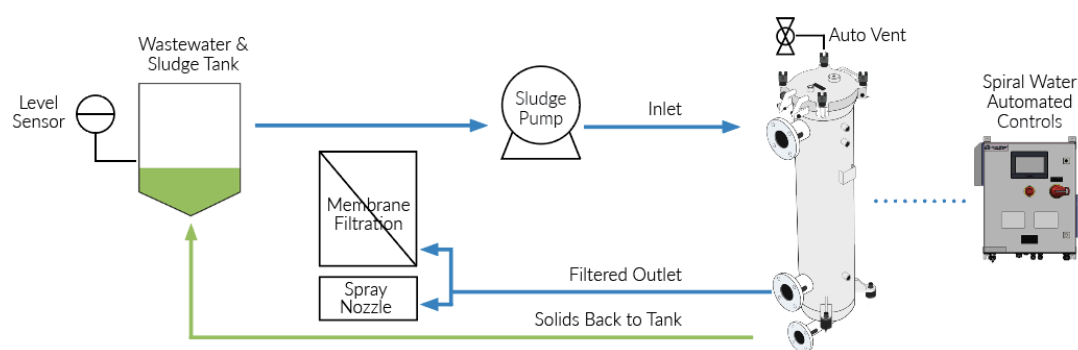




In this issue of Spiral Water’s newsletter, we’ll explore how we solve issues impacting automatic dewatering and reuse for wastewater sludge tanks and opportunities. We’ll also address what makes Spiral Water’s filters the smart solution – and then explore upcoming trade shows where Spiral Water will be exhibiting.

## Top Challenges in Sludge Tank Dewatering—and How Spiral Water Solves Them



Non-hazardous wastewater collection/holding tanks are engineered vessels used to temporarily store, equalize, and stage wastewater prior to treatment, reuse, discharge, or off-site hauling. Typical configurations include equalization (EQ) tanks, sludge/effluent holding tanks, and process wastewater surge tanks, sized to balance diurnal/operational.

Spiral Water dives into the challenges and solutions surrounding sludge tank dewatering with its line of advanced automated self-cleaning filters.

### Variable and High Solids Loading (TSS)

Wastewater in holding and surge tanks often fluctuates significantly, with TSS levels that can spike well beyond what conventional systems can handle—leading to clogging, failure, and process instability.

**The Spiral Water Advantage:** Spiral Water’s advanced automatic self-cleaning filters are engineered to manage high and highly variable solids loading—handling conditions well beyond typical filtration limits and automatically managing upset events without operator intervention.

### Sludge Buildup and Frequent Cleanouts

Settling solids accumulate over time, reducing tank capacity and requiring costly, labor-intensive cleanouts that disrupt operations.

**The Spiral Water Advantage:** By continuously removing suspended solids, Spiral Water systems prevent sludge buildup at the source—keeping tanks cleaner, preserving capacity, and significantly reducing the need for manual cleanouts.

### Downtime and Maintenance Burden

Conventional filtration systems often require frequent shutdowns for cleaning or maintenance, especially under high solids conditions.

**The Spiral Water Advantage:** Spiral Water’s patented internal mechanical cleaning mechanism keeps filters online and operating continuously—eliminating the need for shutdowns and reducing maintenance demands, even in challenging, high-solids environments.

### High Disposal and Hauling Costs

Low solids concentration in sludge increases hauling frequency and disposal costs, placing a heavy financial burden on operations.

**The Spiral Water Advantage:** Spiral Water systems concentrate solids more effectively, reducing sludge volume and associated hauling costs—while improving overall process efficiency and lowering total lifecycle cost.

### Limited Water Reuse Opportunities

Inconsistent or poor water quality after solids separation can limit reuse potential, increasing dependence on freshwater supplies.

**The Spiral Water Advantage:** By delivering consistent, reliable solids removal—even under variable conditions—Spiral Water enables facilities to recover and reuse water for non-potable applications such as washdown, cooling, or upstream processes.

## The Bottom Line

Spiral Water transforms wastewater sludge tanks from passive storage points into active, high-performance process assets. With the ability to handle elevated and variable TSS, remain online under demanding conditions, and deliver reliable solids removal, Spiral Water’s automatic self-cleaning filtration systems help facilities reduce downtime, lower costs, and recover more water—driving both operational and environmental benefits.

OpEx Savings & Benefits	Spiral Water Turnkey System
Sludge Volume Reduction	More concentrated sludge.
Hauling Costs	25-50% less hauling costs, also lowers disposal frequency.
Footprint	Compact, vertical/skid-mounted.
Start-up Time and Maintenance Reduction	Automated, self-cleaning system eliminates manual screen cleaning or batch operation monitoring.
Filter Media Life	2+ years (stainless wedge wire).
Chemical Usage	Reduces chemicals (varies by application).



Construction



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## Spiral Water Filters: The Smart Solution

Spiral Water automated, self-cleaning filters are the smart solution. Engineered with our patented technology, our filters provide security for process systems that require finer filtration and are also affected by variable TSS and high solids loading.

Our ability to manage TSS above 500+ ppm differentiates us from other “self-cleaning backwash filters”. 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.



## See Us at Biogas Americas and Plan Ahead for WEFTEC

Join us at Biogas Americas 2026 from May 18-21 in Detroit, Michigan (Booth #359). The largest gathering of the U.S. Biogas industry, this event brings together technology providers, operators, project developers, investors, policymakers, and service providers who are shaping the future of biogas and RNG.

And plan ahead to join us at WEFTEC 2026, North America's largest annual water quality event! This eagerly anticipated event will take place September 26–

30 in New Orleans, Louisiana, and Spiral Water will be exhibiting at Booth #8254.  
We hope you can join us!

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