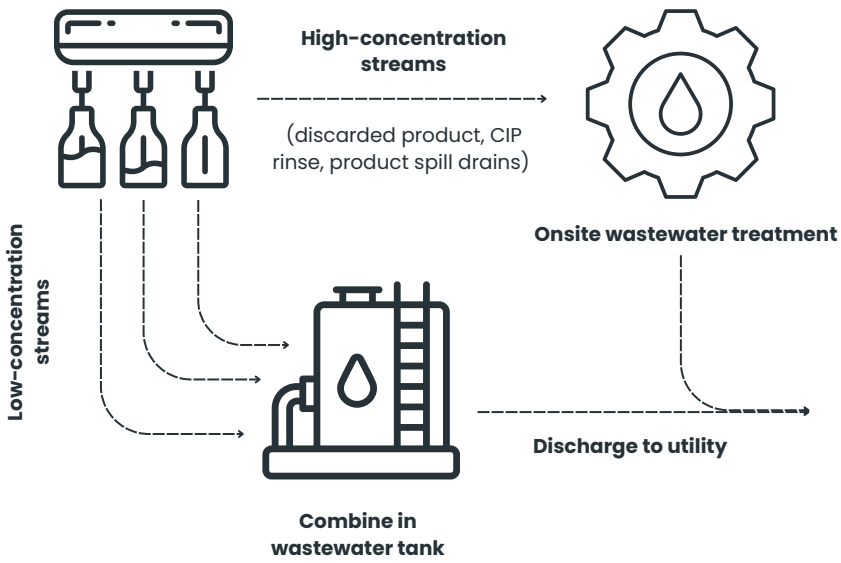
AQUACYCL

Rethink Wastewater with Side Streaming

Treating wastewater at the source to manage challenges

What is side streaming?

Side-streaming is the practice of isolating and treating high-strength wastewater at the point of generation rather than combining it with lower-strength streams for centralized treatment.



Why do it?

Wastewater isn't created equal, especially in a production environment. Mixing everything together creates more complexity, more volume, and more variability.

Combining flows:

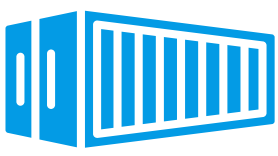
- ✗ Requires larger systems
- ✗ Increases energy, chemical use, and sludge
- ✗ Makes compliance and performance harder to manage

A new approach to side streams

Conventional systems are not designed to handle high-concentration streams directly.

To compensate, the industry standard has been to combine all wastewater flows regardless of strength to create a large, diluted volume that traditional treatment systems can manage.

Aquacycl provides a new way to treat wastewater by being most efficient at taking high concentration, low volume streams and treating them to discharge levels.



Point-Source Treatment: Place treatment system directly at the source of wastewater production.

- ✓ Plug-and-play, containerized design
- ✓ Handles **>150,000 mg/L BOD** without dilution
- ✓ Maintains efficiency under production spikes and low-flow conditions

It's simpler than you think: Based on your current facility's set up, here are three ways to separate streams without large overhauls or additional infrastructure. Aquacycl makes it simple.

by timing
production schedules, batch cycles

by location
CIP, crusher effluent, tank wash

by byproduct
digestate, sludge

The value of side streaming

For Engineers:

- Win projects others walk away from due to complexity or footprint limitations
- Offer a differentiated, flexible, and proven approach
- Speed up permitting and construction timelines
- Open up new verticals previously untreatable with onsite systems

For Facility Owners:

- Cut hauling and surcharge costs by isolating high-BOD waste
- Stay compliant with less risk of system upset
- Scale treatment capacity with production growth
- Reduce operational costs across energy, chemicals, maintenance, and sludge disposal

We found just 3% of volume contained over 60% of BOD at a bottling facility.

Treating just the small, concentrated volume onsite drastically reduced their costs.

Side-streaming isn't a workaround. It's a better way forward.

- ✓ Prevents system overloading
- ✓ Reduces chemical and energy use
- ✓ Improves system reliability and consistency
- ✓ Minimizes sludge and emissions
- ✓ Simplifies troubleshooting and maintenance
- ✓ Helps pinpoint inefficiencies in production
- ✓ Enables water reuse and higher quality discharge

Rethink your approach. Explore side streaming with Aquacycl systems.

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