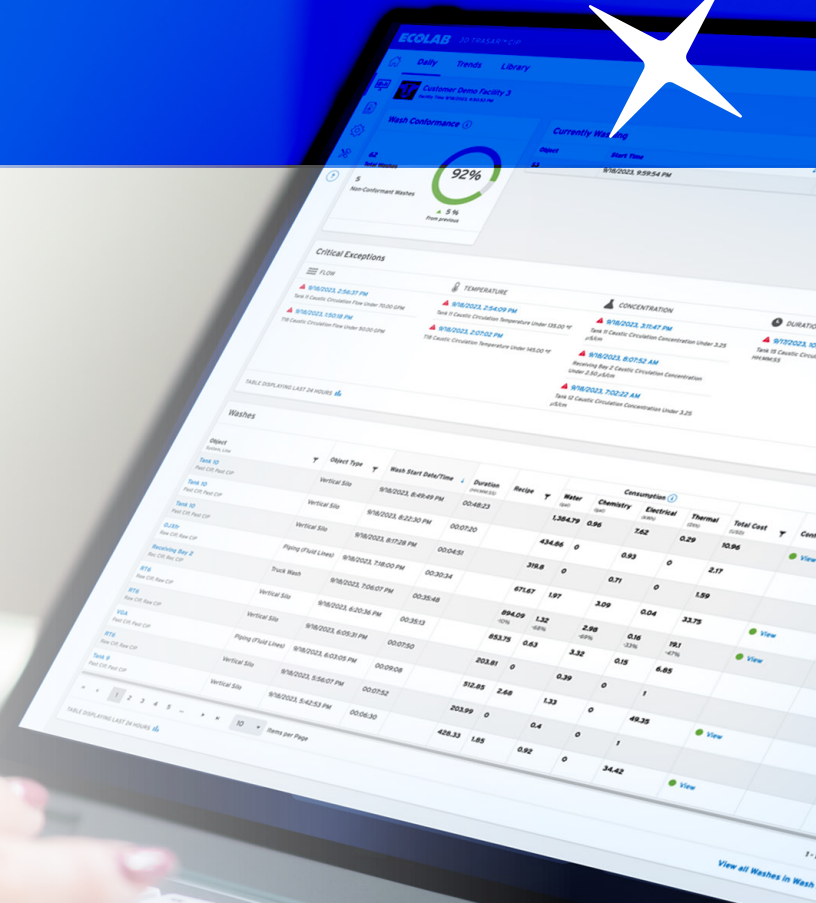




# Ecolab® CIP IQ™

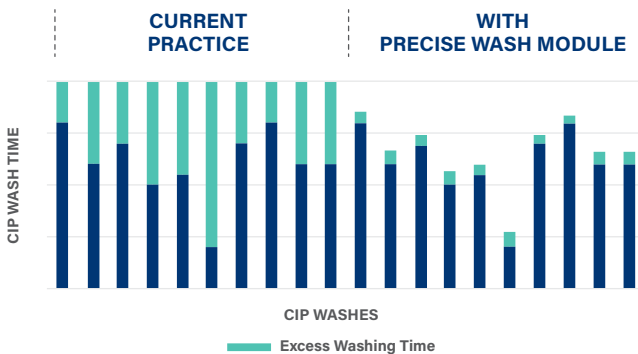
## Reduce CIP rinse time by 20% and boost capacity

Introducing Precise Wash for beverage producers and breweries, an AI-enhanced module within Ecolab® CIP IQ™ that dynamically optimizes CIP using real-time soil load data.



### Washes driven by hard data, not guesswork

Using real time soil data from advanced impedance sensors, Precise Wash helps you fine-tune every CIP rinse – per line, per cycle. Reduce the risk of under- or over-washing.



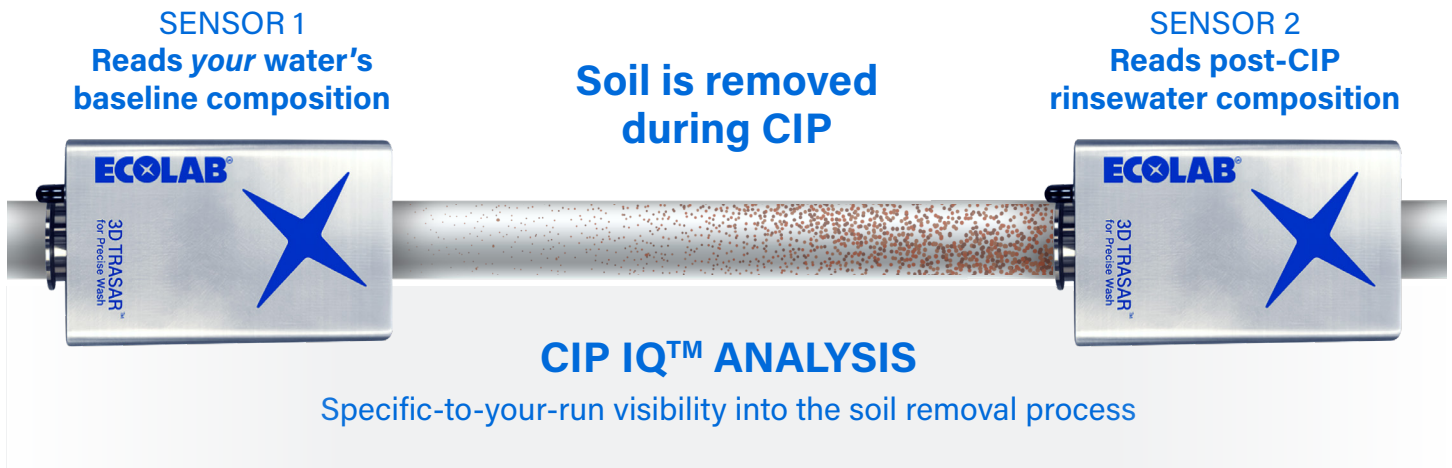
### A thorough wash that maximizes both efficacy and efficiency

Precise Wash's AI-enhanced algorithms use data from 3D TRASAR™ for Precise Wash to monitor the alkaline wash step and understand when soil is no longer actively being removed, which allows you to advance to the next step at the right time with the confidence that the wash was completed.



## How it works: 3D TRASAR™ for Precise Wash sensors

Within the CIP IQ™ Precise Wash Module, complex analysis becomes a single figure that reflects rinsewater soil load. Unlike point-in-time sensors, Precise Wash measures across the full cycle, making it inherently immune to bubble interference.



## Precise Wash results when optimizing CIP rinse<sup>1</sup>



**+40 Hours**  
worth of additional  
annual production  
output



**1.4M**  
gallons worth of  
water savings  
per line



**20%**  
reduced  
rinse time

## Optimization in action

Identify Core  
Equipment

Install 3D TRASAR™  
for Precise Wash

Generate CIP  
Wash Baseline

Deploy  
Precise Wash

Enjoy the Benefits  
of Streamlined CIP



## Ready for smarter CIPs powered by real-time data?

Contact your Ecolab representative today to learn more.

[ecolab.com/precisewash](https://ecolab.com/precisewash)

<sup>1</sup> Based on results from 100 CIP cycles conducted at European brew site. Results will vary for other sites based on factors and circumstances in their operations.