

Treating the hard to treat

Case Study: AquaPure Quick Drop

# Clean Wastewater Using Just a Quarter Ounce Per Gallon of Product

## The Challenge

To maintain its reputation for delivering tight-tolerance aerospace components, a machine shop needed a reliable wastewater treatment system. However, unclear discharge water from tubbing and washing processes created operational inefficiencies. Without personnel trained in wastewater management, the shop sought Hubbard-Hall's expertise to improve their system while using existing equipment.

## The Approach

Hubbard-Hall collaborated closely with the machine shop to address their wastewater challenges. The team began by reviewing the facility's water usage, equipment, and treatment processes while identifying the root cause of the unclear discharge water.

Rather than recommending costly equipment upgrades, Hubbard-Hall focused on optimizing the existing system. They introduced **AquaPure Quick Drop**, a clay-based product with added conditioning agents, as the solution. This product required only 7 grams per gallon for effective treatment. By vigorously mixing the solution, the solids in the wastewater rapidly settled at the bottom of the tank, simplifying the treatment process.

Hubbard-Hall also provided training to operators to ensure the solution was easy to implement and maintain.

## Executive Summary

**A precision aerospace parts vendor partnered with Hubbard-Hall to enhance their wastewater treatment system, achieving clarity, efficiency, and compliance.**

- The shop struggled with unclear discharge water due to washing and tubbing processes.
- Hubbard-Hall assessed their system and recommended AquaPure Quick Drop, a clay-based treatment.
- Operators were educated on the process for ease of implementation.
- The solution reduced staff involvement, simplified processes, and improved water quality.

## The Outcome

The introduction of **AquaPure Quick Drop** transformed the machine shop's wastewater treatment system. The streamlined process reduced staff involvement from four people to one, significantly saving time and manpower. Operators quickly adopted the simplified solution, which allowed them to focus on their primary responsibilities. The treatment system achieved compliance by keeping Total Fixed Solids (TFS) well below regulatory limits, ensuring clear and clean discharge water. Additionally, using less product lowered overall costs, further improving operational efficiency and sustainability. With these enhancements, the shop resolved its wastewater challenges and strengthened its operational excellence.




"Their Total Fixed Solids (TFS) are now well below their limits and their wastewater is clean. They're saving time, manpower, and since they are using less product, they are saving money as well. That's an ending we're all happy to embrace."

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