USP technologies™
Solutions for a clean environment

Case Study
Industrial

Sulfide Control and Supplemental Dissolved Oxygen for Dairy Production Facilities

Results at a Glance

- Significant reduction in H_2S-related odors at multiple facilities
- Improved Bio Tower performance through supplemental dissolved oxygen (DO)
- Enhanced overall wastewater treatment efficiency

The Challenge

A large dairy production company faced **persistent sulfide-related odor issues** in their wastewater treatment plant outfall at two separate facilities.

In addition, one facility **struggled to maintain target dissolved oxygen (DO) levels** in its Bio Tower, impacting biological treatment performance.

The company needed a rapid, effective solution to control odors, stabilize treatment processes, and ensure compliant and efficient operations at each facility.

USP Technologies' Solution

USP Technologies responded quickly with a **hydrogen peroxide treatment program tailored to each facility's needs**. This program included:

- **Rapid mobilization**: USP quickly delivered hydrogen peroxide and installed dosing systems at both sites
- **Targeted dosing and monitoring**: Strategically placed injection points allowed USP Technologies to deliver:
  - **Reduced H_2S** levels at each location
  - **Supplemental DO** in the Bio Tower at the second facility, improving biological treatment efficiency

Key Results

With rapid deployment of USP Technologies' **full-service hydrogen peroxide treatment program**, the organization achieved:

- **Effective Odor Control**: The program resulted in a dramatic reduction of sulfide-related odors at both facilities
- **Process Optimization**: Stabilizing DO levels in the Bio Tower enhanced overall wastewater treatment performance
- **Sustained Success**: After the systems had been in place for a year with continued success, USP Technologies began transitioning the program to deliver more permanent hydrogen peroxide storage, dosing, and monitoring systems for long-term support

At USP Technologies, we deliver **rapid, customized solutions** to help dairy processors control odors, stabilize biological treatment, and maintain compliance - **keeping operations efficient and sustainable.**

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