



TULKOFF FOODS TACKLES CHALLENGING WASTEWATER WITH COMPACT, EFFICIENT TREATMENT SYSTEM

BACKGROUND & CHALLENGES

Tulkoff Foods is a leading manufacturer of condiments, sauces, and marinades. The company has been in operation for over 80 years and has a reputation for producing high-quality products. Their best selling product is their famous horse radish sauce that you are likely to find in most refrigerators around the country. The griding of the root vegetables and the condiment manufacturing process generates a considerable amount of wastewater that must be treated before it can be discharged. Tulkoff Foods decided to invest in a wastewater treatment system that would meet their environmental goals and regulations as well as fitting into a small footprint. The company chose the HUBER Dissolved Air Flotation (DAF) and Q-Press to treat solve their wastewater problem.

Tulkoff Foods had several challenges in treating their wastewater including a high concentration of Total Suspended Solids (TSS), Chemical Oxygen Demand (COD), and Fats, Oils, and Grease (FOG). The company needed a system that was cost-effective, energy-efficient, and could handle the high volume of wastewater generated as well as meeting the local environmental regulations for wastewater discharge.

SOLUTION PROVIDED BY HUBER TECHNOLOGY, INC.

After evaluating various wastewater treatment technologies from several vendors, Tulkoff Foods chose the HUBER Dissolved Air Flotation (DAF) and Q-Press technology to solve their wastewater challenges. The HUBER DAF system is designed to remove TSS, COD, and FOG from wastewater using a physical and chemical separation process. The system operates by injecting dissolved air into the wastewater, which creates microscopic bubbles that attach to the solids and float them to the surface. The Q-Press technology is used to dewater the sludge that is generated from the DAF process.

PROJECT DATA

Client: Tulkoff Foods
Wastewater Treatment Plant

Location: Baltimore, MD

Project Type: Pretreatment
DAF & Screw Press

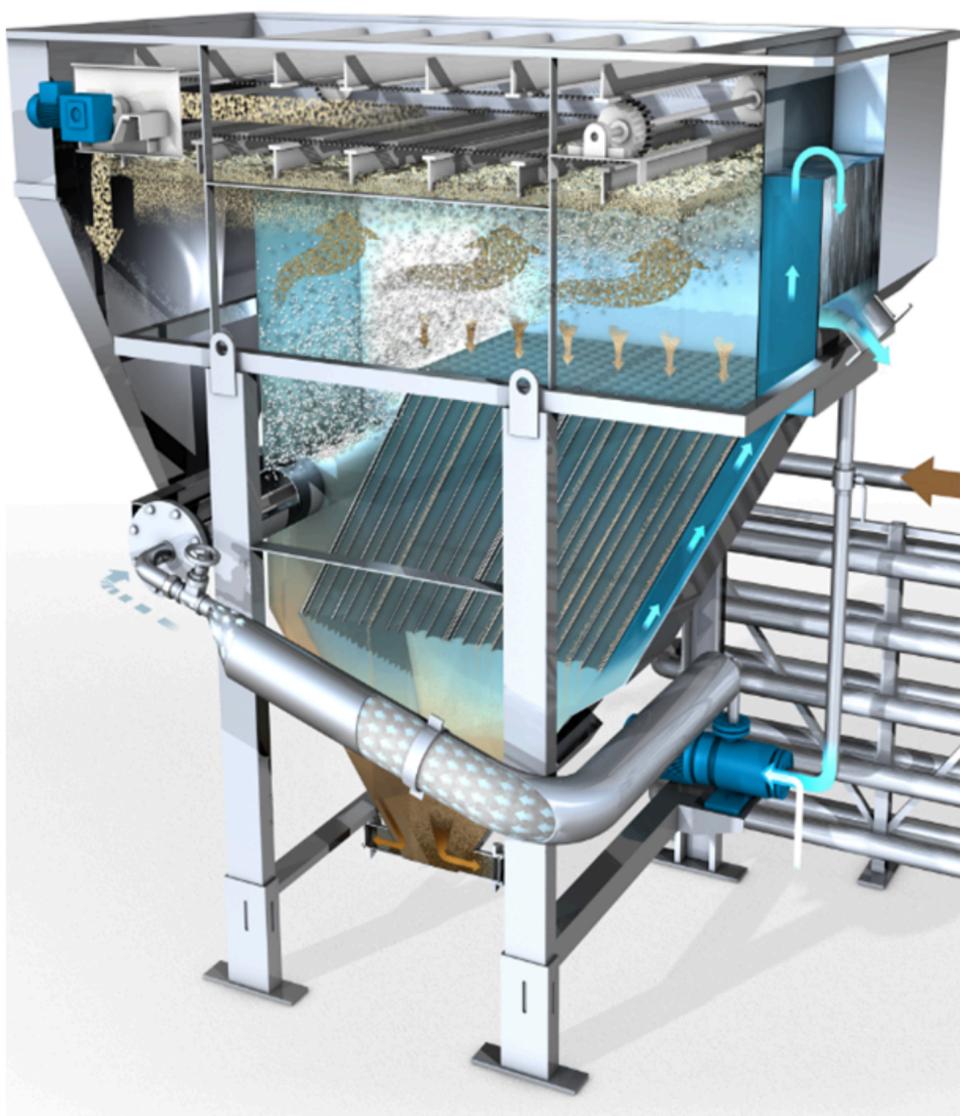
HUBER Technology, Inc.
Solution: HUBER Dissolved
Air Flotation Plant HDF 3 /
HUBER Screw Press Q-
Press® 440.2

Completion Date: Jan 2022

IMPLEMENTATION & EXECUTION

- Q2 2021: Engineering of system in collaboration with Tulkoff Foods Team.
- Q3 2021: Installation of DAF and QPRESS into the new wastewater building.
- Q1 2022: Commissioning, operator training, and system optimization.

HUBER's engineering team collaborated with plant operators to ensure seamless integration with minimal downtime



RESULTS & BENEFITS:

The installation of the HUBER DAF and Q-Press technology has been successful in treating Tulkoff Foods' wastewater. The system has been able to consistently meet the local environmental regulations for wastewater discharge. The system has also resulted in significant cost savings for the company due to its low operating costs and minimal maintenance requirements.

The HUBER DAF system has also improved the quality of the effluent produced by Tulkoff Foods. The effluent has a lower concentration of TSS, COD, and FOG, resulting in a cleaner discharge to the environment.

The Q-Press technology has also been successful in dewatering the sludge generated from the DAF process. The dewatered sludge is easier to handle and dispose of, resulting in cost savings for the company.

- ✓ Consistent, automated dewatering, freeing up operators for higher-value tasks.
- ✓ Odor control and improved workplace environment with enclosed system design.
- ✓ Lower carbon footprint, aligning with the plant's sustainability goals.

CONCLUSION

The installation of the HUBER DAF and Q-Press technology has been a success for Tulkoff Foods. The system has been able to consistently meet the local environmental regulations for wastewater discharge, resulting in a cleaner discharge to the environment. The system has also resulted in cost savings for the company due to its low operating costs and minimal maintenance requirements. The HUBER DAF and Q-Press technology is an ideal solution for companies that generate a high volume of wastewater and need an efficient and cost-effective wastewater treatment system.



ABOUT HUBER TECHNOLOGY, INC.

Headquartered in Denver, North Carolina, HUBER Technology, Inc. operates a 206,000-square-foot state-of-the-art facility that houses offices, training centers, and advanced manufacturing capabilities. This enables us to design, produce, and deliver a wide range of wastewater treatment equipment, from dewatering screw press systems, headworks screens, grit handling, septage receiving, tertiary filtration and equipment and drying of biosolids equipment for use in the water and wastewater industry.

