

SPRINGDALE WASTEWATER PLANT USES ADVANCED TREATMENT, FACES BIOSOLIDS DISPOSAL CHALLENGES

BACKGROUND & CHALLENGES

Springdale's wastewater treatment facility features an advanced system that employs biological nutrient removal and sand filtration for tertiary treatment before discharging effluent into Spring Creek. Originally built on its current site in 1964, the facility underwent its most recent expansion in 2006, enhancing its capacity and efficiency to treat up to 24 million gallons of wastewater per day.

Springdale Water Utilities (SWU or Utility) recognize that a critical portion of their treatment is the disposal of the materials (biosolids) the treatment plant removes from the wastewater. Without the ability to dispose of biosolids, the Utility would run out of storage quickly, and operations would be adversely affected. The Utility controls the thickening and hauling components of disposal but is dependent on the local landfill to accept the biosolids.

- reduce disposal costs
- improve sludge handling
- lower energy costs
- Be prepared for environmental regulations

SOLUTION PROVIDED BY HUBER TECHNOLOGY, INC.

HUBER Technology, Inc. installed two HUBER BT 26, a high-performance drying system designed for low energy consumption and maximum solids capture. Key advantages of the solution included:

Dryer Size 2x BT 26

Spray Condenser with Recirculated Water
Heating System: Natural Gas Boiler
Temperature: 284°F (140°C).

Sludge Type

Waste Activated Sludge

PROJECT DATA

Client: Springdale
Wastewater Treatment Plant

Location: Springdale, AR

Project Type: Thermal Dryer

HUBER Technology, Inc.
Solution: 2x HUBER BT 26

Completion Date: June 2020

Design Throughput

- 8,160 Dry Ton/yr
- 48,000 Wet Ton/yr 2x 7,866 lb/hr water evaporation
- 17.1% solids
- 104 hours of operation per week

End Product

92% Class A

IMPLEMENTATION & EXECUTION

- Q3 2017: Order received
- Q3 2018: Delivery of HUBER Belt Dryer
- Q3 2019: Installation
- Q3 2019: performance test
- Q4 2021 substantial completion

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



RESULTS & BENEFITS:

Performance Improvements:

- ✓ 75% reduction in sludge hauling costs due to 90% solids content.
- ✓ Class A sludge according to EPA guidelines
- ✓ lower energy use due to heat recovery

Operational & Environmental Gains:

- ✓ "safe & clean" technology
- ✓ low maintenance – operate 24/7.
- ✓ Lower carbon footprint, aligning with the plant's sustainability goals.

CONCLUSION

The installation of the two HUBER BT 26 units has significantly enhanced operations and efficiency at the Springdale Wastewater Treatment Plant. Reduced operating expenses, better environmental outcomes, and increased automation have positioned the facility to successfully handle future regulatory and operational demands.



HUBER Belt Dryer BT - Springdale, AR

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.



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For more information about the HUBER Belt Dryer® please scan the QR code