

SOUTH VALLEY SEWER DISTRICT ADVANCES BIOSOLIDS MANAGEMENT WITH COST-SAVING DRYER

BACKGROUND & CHALLENGES

To improve biosolids management at the Jordan Basin Water Reclamation Facility, the South Valley Sewer District partnered with Bowen Collins & Associates to explore advanced drying technologies. The goal: reduce disposal costs, increase operational flexibility, and enable beneficial reuse. After a thorough evaluation, the District selected the HUBER belt dryer – a reliable, long-term solution that delivers outstanding performance and multiple benefits:

- Long-term solution for biosolids disposal
- Greater flexibility and redundancy in disposal options thanks to improved biosolids characteristics
- Significantly reduced hauling and disposal costs due to lower weight and volume
- Potential for beneficial reuse as a soil amendment or fertilizer
- Opportunity to generate revenue through the sale of dried biosolids

SOLUTION PROVIDED BY HUBER TECHNOLOGY, INC.

HUBER Technology, Inc. installed one HUBER BT 22, a high-performance drying system designed for low energy consumption and maximum solids capture. Key advantages of the solution included:

Dryer Size BT 22

Spray Condenser with Recirculated Water
Heating System: Natural Gas Boiler
Temperature: 285°F (140°C).

Sludge Type

Waste Activated Sludge

PROJECT DATA

Client: Jordan Basin Water
Reclamation Facility

Location: Jordan Basin, UT

Project Type: Thermal
Dryer

HUBER Technology, Inc.
Solution: HUBER BT 22

Completion Date: August
2021

Design Throughput

- 3,260 Dry Ton/yr
- 18,000 Wet Ton/yr 2x 7,866 lb/hr water evaporation
- 18% solids
- 7300 hours of operation per week
- 304 days
-

End Product

92% Class A



IMPLEMENTATION & EXECUTION

- Q1 2017: Order received
- Q4 2019: Delivery of HUBER Belt Dryer
- Q3 2020: Installation
- Q3 2021 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 integration of the HUBER BT 22 units has greatly optimized performance and streamlined processes at the Jordan Basin Wastewater Treatment Plant. With lower operational costs, improved environmental impact, and advanced automation, the plant is now well-prepared to meet evolving regulatory requirements and future operational needs.



HUBER Belt Dryer BT - Jordan Basin, UT

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