

Lifting pumps are a thing of the past, saving this pump station over \$9,000 in the first year

### **Problem**

Pumps were ragging at least once per week at this Water Reclamation Facility (WRF) in the Jordan Basin (South Jordan Pump Station) area in Utah, with a surrounding population of 200,000 and processing 30 MGD. Rags caused audible cavitation noises within the four 125HP pumps, accelerating the need for repair.

- The maintenance team was de-ragging pumps for five to six hours weekly
- Hazardous working conditions exposure to raw sewage and dangerous sharps
- Operational efficiency declined with increased equipment downtime
- Increased maintenance costs

"Before implementing the DERAGGER® anti-ragging system, we were pulling pump inspection plates and cleaning by hand biweekly, if not weekly. But after installation of DERAGGERs, we now go two or three months without having to clean by hand."

- Kelly Petersen, Jordan Basin WRF



# Solution

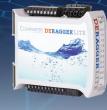
The South Jordan Pump Station installed four DERAGGER® systems and keypads in 2016. By enabling Real Time Pump Protection™ to detect rags and run a clean cycle, DERAGGER® clears the first rag and prevents a clogged pump.

Since installation, all ragging has stopped, and pumps no longer must be lifted and cleaned manually. This translates into maintenance and energy savings for the pump station:

- Estimated staff hours saved: 3 per month or 312 hours per year
- Estimated cost savings at \$30 per hour: \$780 per month or \$9360 per year



# DERAGGER® MONITOR | PROTECT | CONTROL®



#### **DERAGGER**Lite™ Anti-ragging device eradicates pump clogs



**DERAGGER+™** Real Time Pump Protection™



PowerMonitor™ Power analyzer & data logger

## **MONITOR**

SCADA Ready	
Data Logging (20 years at 5s intervals)	
Derived Flow	

# **PROTECT**

Anti-ragging	
Motor Saver	
Dry Run Protection	

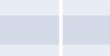




# **CONTROL**

0 - 1000+ HP	
VFD Compatible	
Wet Well Clean	
Odor Control	















**PRO Compatible** 

#### **DERAGGER**Pro™

Paired with **DERAGGER+™** or **PowerMonitor™**, simplifies pump station controlling and spreads intelligence across three devices for system redundancy.

Controls up to 16 pumps | 10" - 32" IP65 anti-scratch screen



#### **KEYPAD**

With real time data user interface. With the **DERAGGER+™** Keypad, the SD card stores up to 20 years of high resolution performance data.



#### **ADVANCED KEYPAD**

TCP/Ethernet Connectivity, built-in LTE available, LORA radio, start/stop function.

