



INDUSTRIAL
FLOW
SOLUTIONS™

CASE STUDY DERAGGER®

GREAT FALLS, MT, USA

Annual Cost Savings: **\$13,000**

Enhancing Pump Performance and Cutting Costs: The DERAGGER® Solution in Great Falls



Problem

Great Falls, Montana, home to approximately 60,000 residents, operates a wastewater facility that processes 100,000 gallons per day (gpd) using 30 HP pumps. For many years, the site struggle with pump **ragging** & frequent **clogs**.

To address this, the municipality installed a channel grinder before the wet well influent channel pump to reduce blockages. While the grinder helped, it did not fully resolve the issue. Clogs still occur regularly, 12 to 16 times each year. As a result, the pumps had to be lifted and cleaned regularly, and the channel grinder also required ongoing maintenance, adding to the overall **maintenance costs** and demands.

"The DERAGGER® was installed on one pump that normally has a grinder, while that was sent off for a rebuild. The DERAGGER worked incredibly well. We will be purchasing DERAGGER systems for other problem stations in the near future."

- Randy Kerkes, Maintenance Manager Veolia, Great Falls WWTP



Solution

When the channel grinder was due for a rebuild, the local distributor suggested the municipality install a DERAGGER® as an alternative. The DERAGGER was installed on one of the 30 HP pumps, set to initiate a clean cycle at start-up, and equipped with **Real-Time Pump Protection™** to detect and prevent rag balls from forming.

The DERAGGER proved so effective that the channel grinder was never reinstalled. Eliminating the need for the grinder, the DERAGGER:

- **reduced energy** consumption
- **decreased maintenance** & labor time and costs
- **saved \$13,000** annually in grinder rebuild costs



DERAGGER®



DERAGGERLite™
Anti-ragging device
Prevents 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		●	●

The **DERAGGER®** is a leading product in the municipal industry, designed to eliminate ragging and clogging issues in pump stations. It offers real-time detection of early rags and clogs, providing intelligent data monitoring and analytics tailored to specific applications.

Key features include:

- Real-time monitoring of dynamic torque waveform to prevent pump clogging.
- High-resolution power analyzer for remote insight into pump station operations.
- Cost savings in time and maintenance through streamlined applications.
- Modular approach ensures compatibility without redesigning control panels.



DERAGGERPro™

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



ADVANCED KEYPAD

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

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



INDUSTRIAL
FLOW
SOLUTIONS™