



INDUSTRIAL  
FLOW  
SOLUTIONS™

CASE STUDY  
**DERAGGER®**  
GREENSBORO, NC, USA

## Efficient Pump Protection and Enhanced Safety Deliver Rapid ROI for Greensboro's Wastewater Team with DERAGGER®

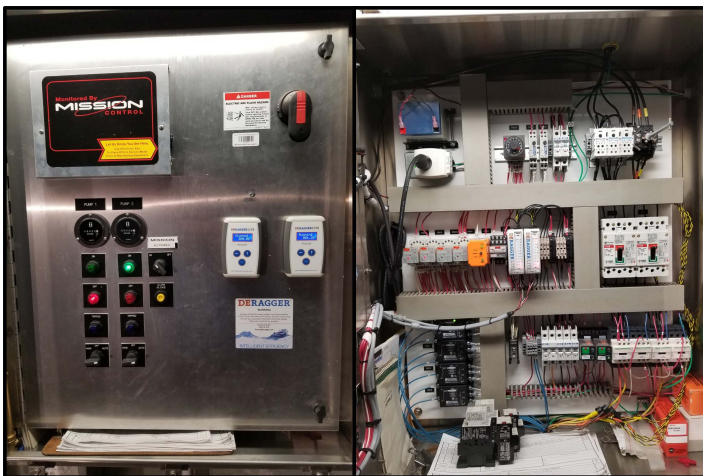
### Problem

Pump ragging was a major challenge for the wastewater team at the City of Greensboro, NC, which serves over 285,000 residents and processes more than 30 MGD of sewage.

**Regular clogs** from rags, wipes, and debris hindered pump efficiency and led to **costly, time-consuming maintenance**. Clearing these clogs required lifting heavy pumps and exposed workers to **dangerous hazards** like sharp objects and raw sewage, increasing the risk of injury.

The **frequent maintenance** efforts consumed significant time and resources, **delaying critical tasks** and compromising the facility's overall efficiency.

Faced with these challenges, the team recognized the urgent need for a safer and cost-effective solution that could be implemented quickly and offer a short return on investment (ROI).



### Solution

In 2017, the Greensboro team installed six DERAGGER® systems to address the ongoing pump ragging issue. These systems utilize **Real Time Pump Protection™** to detect the presence of rags and automatically trigger a cleaning cycle, clearing the first rag before it can cause a clog.

Since the installation, ragging has been completely eliminated, and pumps no longer need to be manually lifted for clog removal. This has resulted in **zero instances of ragging**. As a result, the team can now redirect time and resources to other critical maintenance projects. The DERAGGER system not only provided a **quick return on investment (ROI)** but also significantly **reduced safety risks** for employees by eliminating the need for hazardous, hands-on pump maintenance.



# DERAGGER®



**DERAGGERLite™**  
Anti-ragging device  
Prevents pump clogs



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



**PowerMonitor™**  
Power analyzer &  
data logger

MONITOR			
SCADA Ready		●	●
Data Logging <i>(20 years at 5s intervals)</i>		●	●
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.



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

**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.



INDUSTRIAL  
FLOW  
SOLUTIONS™