



**INDUSTRIAL  
FLOW  
SOLUTIONS™**

**CASE STUDY  
DERAGGER®**  
PALESTINE, TX, USA

City plunges forward, flushing problems away  
and saving over **\$100,000** in 8 months post-installation



**BEFORE**

### Problem

Palestine, Texas, home to over 18,000 residents and processing 25 million gallons per day (MGD) of wastewater, faced persistent clogging issues in its sewer system due to improperly flushed items such as wipes, plastics, clothing, rags, and trash bags. These materials aggregated into dense "rag balls" that frequently obstructed pumps, leading to frequent and costly equipment downtime. The manual cleaning of three Return-Activated Sludge (RAS) pumps required 21 weekly interventions, amounting to \$3,000 in maintenance expenses each week. This process was not only time-consuming but also posed safety risks to maintenance personnel.

After years of research, the city installed three DERAGGER® systems, one for each pump at the plant.



**"It's an incredible solution  
to an age-old problem."**

- Tim Perry, Public Works Director



**AFTER**

### Solution

The DERAGGER® systems were designed to continuously monitor the pumps' amperage, voltage, and hertz outputs, detecting potential overloads and clogs in real time.

DERAGGER® utilizes innovative technology, including Real Time Pump Protection™, which automatically reverses the impeller blades' direction upon detecting a blockage or rag, effectively clearing the obstruction without the need for manual intervention. This preemptive action not only prevents pump shutdowns but also ensures uninterrupted operation of the wastewater treatment process.

Eight months post-installation, there were no pump shutdowns reported, leading to substantial cost savings exceeding \$100,000. The DERAGGER® systems significantly improved operational efficiency, reduced maintenance downtime, and enhanced safety for maintenance personnel.

The success of this initiative garnered local recognition, featuring on Palestine's local news channel, KLTV.

Scan here to watch the video





# 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.



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