DERAGGER®

MONITOR | PROECT | CONTROL™

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

BEFORE

AFTER

Problem

"Flushables" were clogging pumps daily in the sewer system in Palestine, Texas a city of over 18,000 residents that processes 25 MGD. Items ranging from wipes, plastics, clothing, rags, trash bags, and other non-flushable debris clogged the pumps, resulting in costly catastrophic equipment downtime. These items cluster together, forming "rag balls," detrimental to wastewater treatment plants.

The system is comprised of three RAS pumps (return-activated sludge) that require a manual clean-out 21 times a week, costing $3,000 weekly. The process for the maintenance team was time-consuming, disruptive, and dangerous:

• Shut down the pumps.
• Pull the pumps up.
• Dislodge the blockages from the sharp impellers by hand.

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*

Solution

The city installed a **DERAGGER®** system to monitor the pumps' amperage, voltage, and hertz outputs and sense potential overloads. If a clog is detected, the **DERAGGER®** reverses the direction of the blades on the pump impellers, eliminating the clog or rag.

By enabling **Real Time Pump Protection™** to detect rags and run a clean cycle, **DERAGGER®** clears the first rag and prevents a clogged pump. Eight months post-installation, there were no shutdowns, and the city saved over $100,000. Installing **DERAGGER®** saves money and time and improves operator safety.

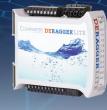This remarkable transformation was featured on the local news channel in Palestine, TX: KLTV.

Scan here to watch the video

PLAY VIDEO

BENJAMIN DAY
PALESTINE WASTEWATER TREATMENT PLANT

Energy & cost saving calculations are as reported by City of Palestine, Texas.

DERAGGER®

MONITOR | PROTECT | CONTROL™

DERAGGERLite™
Anti-ragging device eradicates pump clogs

DERAGGER+™
Real Time Pump Protection™

PowerMonitor™
Power analyzer & data logger

MONITOR	DERAGGERLite™	DERAGGER+™	PowerMonitor™
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		●	●

DERAGGERPro™
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.

INDUSTRIAL FLOW SOLUTIONS™