Chesterton Connect™ Sensor Reduces Submersible Pump Damage at Lift Station

Wastewater Industry
Chesterton Connect Sensor and Cloud
Equipment Monitoring Case Study

Challenge

Background

A wastewater facility in Texas was having clogging issues, due to ragging, in their submersible pumps. The frequent clogging created cavitation and resulted in pump vibration which caused serious damage to the pumps and components. Costs for repair ranged from $18.000 to $35,000 per pump.

Solution

Product

Chesterton® specialists met with facility personnel to discuss options to reduce both the significant maintenance cost and the pump downtime. **Chesterton Connect Sensors** were installed on the discharge piping of the pump to remotely detect vibration in excess of pre-established levels, indicative of clogging and email personnel of vibration issues.

Results

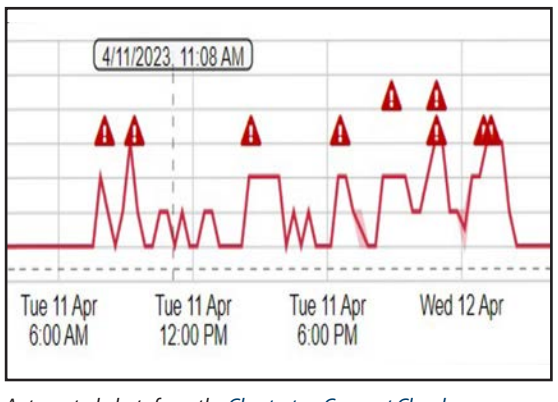
Increased Reliability

The **Chesterton Connect Sensor**, in combination with the **Chesterton Connect Cloud** were able to warn facility personnel of increasing vibration as the pump suctions became clogged. This allowed maintenance crews to clean out the ragging prior to significant pump damage and quickly return to normal running conditions. This saved the facility the cost of pulling the pump and completely rebuilding.

$ = US Dollar

Chesterton Connect Sensor.

Submersible pumps with Chesterton Connect Sensors.



Automated alerts from the Chesterton Connect Cloud.

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