

# Seal Flush Water Conservation SOLUTION



SERVICE SYSTEMS SOLUTIONS

## Installing Chesterton Split Seal and SpiralTrac Environmental Controls

### Our Customer's Challenge

Great Neck Water Pollution Control District:  
Excessive water consumption for seal flush on 3 existing pump assemblies. Cost incurred for both purchasing city water and for treatment of effluent. Shaft damage caused by mechanical packing

### CPE's Solutions

**Configuration:** pump station consisting of three pumps, primary pump operational 24hrs/365days, secondary pumps running as necessary.

**Solution:** installed A. W. Chesterton 442 Split Mechanical Seals, SpiralTrac water reducing environmental controls and flow meter to regulate seal flush water.

### SpiralTrac for Municipal Applications

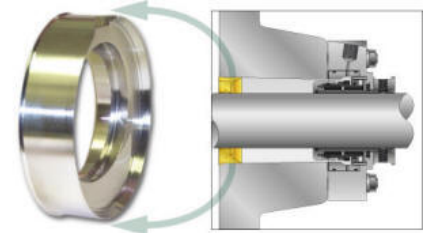
SpiralTrac is a revolutionary environmental controller for seal and packing chambers, and has established new standards worldwide for exploiting the maximum performance potential of rotating process equipment in many municipal and waste treatment areas.

#### What does it do?

A SpiralTrac Enhanced Environment increases the sealing element life, while decreasing flush and product leakage at the same time.

#### What applications?

Typical municipal industry application areas include water, sludge, re-circ, and other water/wastewater service areas.

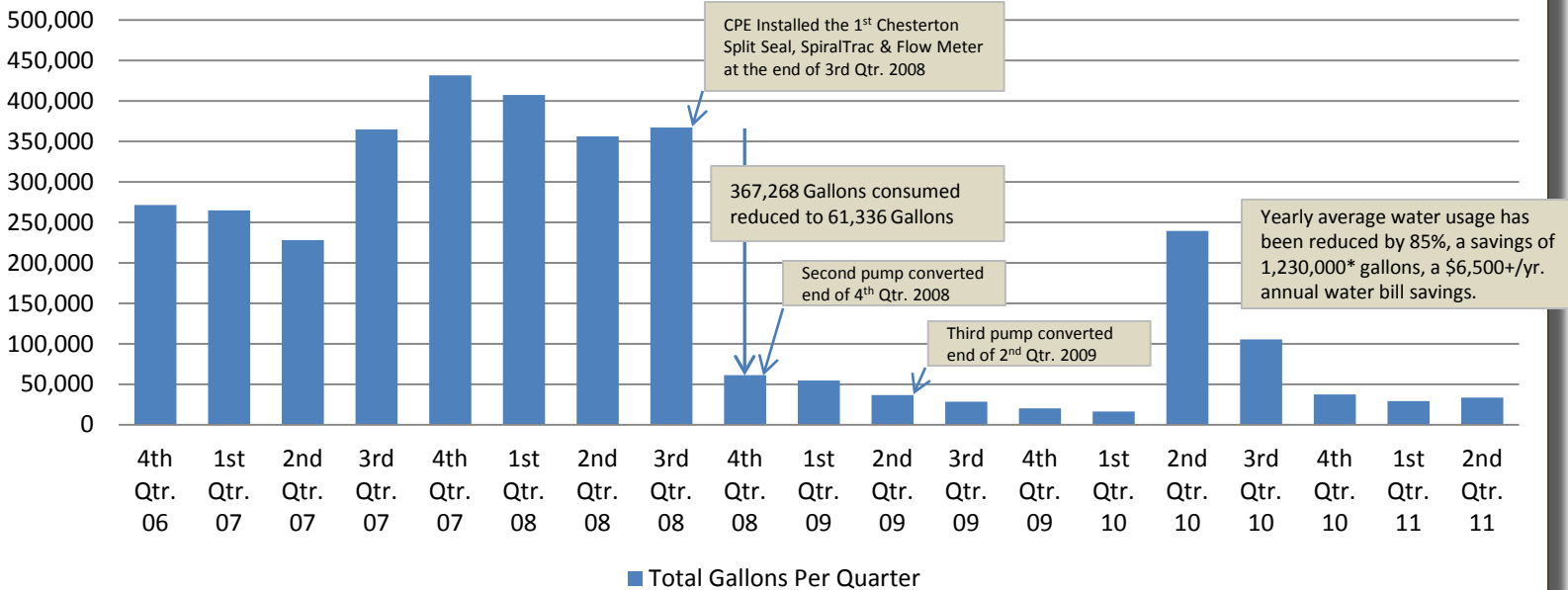


"The decision was made late summer 2009 to convert our packed pumps to split seals and SpiralTracs. The goal was to reduce seal flush water with a mechanical seal and the added benefit of reduced wear of the pumps. The results have far exceeded my expectations. We are saving more than \$6,500.00 per year on the water bill. More importantly, we are saving more than 1,230,000 gallons of drinking water per year, compared to our former packing system. I would recommend this type of conversion to any applicable waste water facility because it is both an economically and environmentally responsible upgrade."

Christopher Murphy - Plant Superintendent, Long Island, NY

## Water Savings

### Total Gallons of Seal Flush Water Used Per Quarter



\* Savings based on results after the 3<sup>rd</sup> pump was converted – 2<sup>nd</sup> quarter 2009. Excluding 2<sup>nd</sup> & 3<sup>rd</sup> quarters 2010 – storm damage power loss and generator cooling system failure required city water flow for heat exchange – the condition lasted for 9 days and consumed close to 300,000 gallons of water.

CPES005

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