



CASE STUDY

A large long-term care facility in Kitchener. The water usage of the building is remotely monitored using an Alert Labs Flowie installed on the main municipal water meter. The Alert Labs algorithms compare water usage patterns and flow rates to identify potential leaks and excess water consumption.

Patient care, food service, laundry and cleaning services all contribute to the large daily water consumption at this facility. The water consumption at 46 Lanark averages approximately 15 cubic meters per hour. The peak water usage is consistently from 6:00 AM to 8:00 PM when most of these activities take place. Overnight water usage is typically 15 - 20% of daytime use.

On October 20 the Alert Labs Flowie recorded a significant increase in water consumption. Upon analysis of the water usage trends it was noted that the average hourly water consumption had increased by approximately 6,000 litres per hour to over 23 M3/hr. The trend logs attached shows that the abnormal and prolonged usage continued through the night indicating 24-hour water loss. The maintenance staff were alerted to an unusual increase of water usage.

Local staff were able to resolve the water loss and the flow rates returned to normal on October 26.

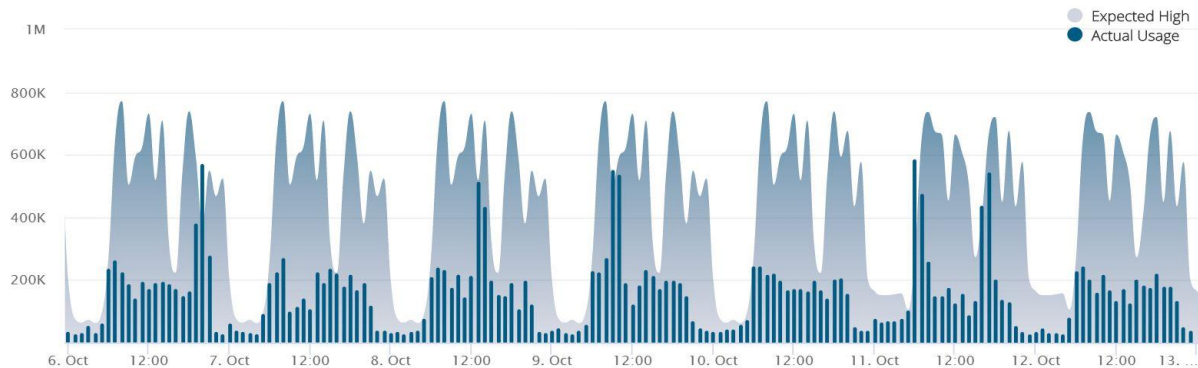
Pre-Alarm Water Usage from October 6 - 12: Average usage 15.8 m3/hour.

Water Usage

Save Data

RANGE: 1D 1W 1M 1Y BILL CUSTOM UNIT: L \$ RESOLUTION: HR DAY

OCT 06 - 12



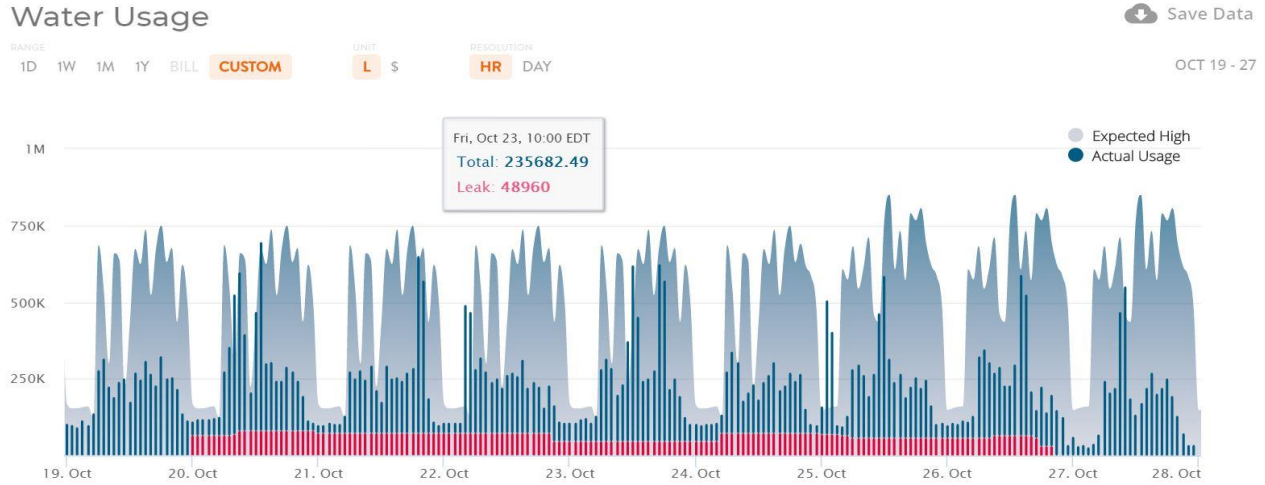
During This Period

26.5M L TOTAL 158K L/HOURS AVG

Conserve

Protect

Alarm Level Water Usage from October 20 – 26: Average usage 23.1 m3/hour.



During This Period

49.9M L TOTAL 231K L/HOURS AVG 11.1M L LEAK

Normal Water Usage Restored October 28 – November 4: Average usage 16 m3/hour.



During This Period

30.9M L TOTAL 160K L/HOURS AVG

SUMMARY:

The increased water usage would cost \$600.00 - \$700.00 per day.

The broken plumbing fixtures were repaired and all water loss issues was resolved. We are happy to report that water consumption and usage patterns have now returned to normal.

WATERSHIELD is happy to have contributed to this resolution.