

Avoid Water Damage

SAVE MONEY, MONITOR WATER, PREVENT FLOODS

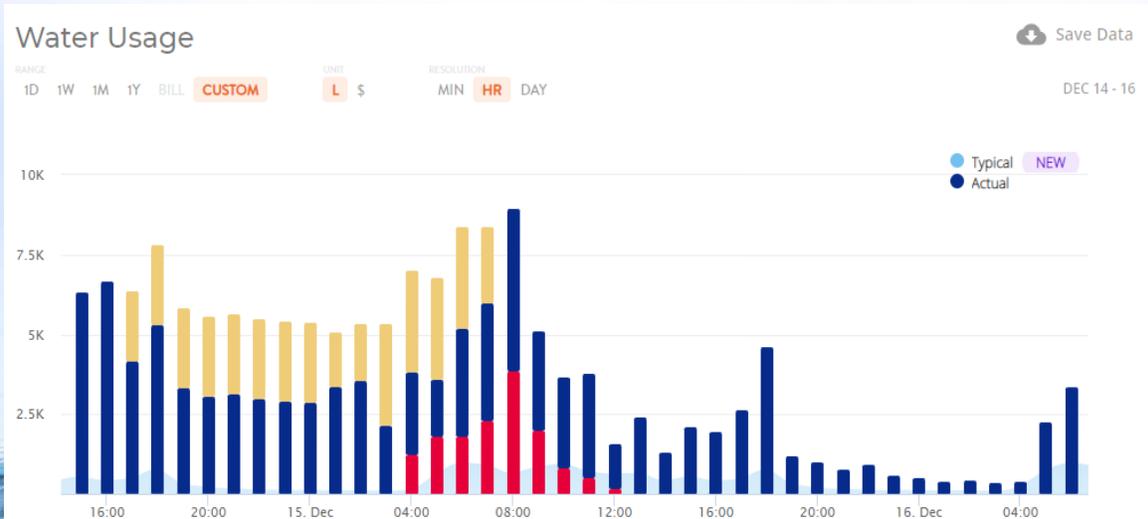


Figure 1 - Leak shown from 4 AM to noon Dec 15th, 2022, The graph above shows when the abnormally high water flow began at approximately 4:00 AM and stopped when maintenance staff shut off the hose around noon (red bars).

CASE STUDY

In March of 2022 the WATERSHIELD system was implemented at a long-term care facility in Southwestern Ontario. The WATERSHIELD equipment in place monitors cold drinking water usage and softened domestic hot water usage. Additional sensors provide physical flood alert protection in mechanical rooms and monitors the domestic hot water recirculation, storage, and supply temperatures.

In the early morning hours of December 15th, 2022, the WATERSHIELD flow sensor installed on the softened domestic hot water system detected a water consumption increase of 114 liters per minute. This is considered abnormally high compared to typical water use at that time of day when water use should be at its lowest. If the leak had not been detected for even a week, at this rate a volume of 1,305,112, liters or \$1,200 worth of water would have been lost.

An Email and Text message alert was sent to the local Managers at both 4:19 AM and 7:45 AM.

WATERSHIELD staff investigated the alert using the 24/7 online dashboard and then provided an additional email notice to the local maintenance and senior management staff to advise them to look for leaking or running water. The sudden increase in flow indicated a leak in the softened hot water system, potentially flooding the occupied space and depleting water softening chemicals.

The maintenance staff on site were quickly able to determine that the cause of water loss. A flush valve in a mechanical room had inadvertently been left fully open running to a floor drain. This was immediately shut off and the leak alert was cleared at 11:15 AM. This could have been undetected for several days if not for WATERSHIELD water use monitoring.



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