

WaterSignal detects cooling tower malfunctions for metro Atlanta university

1. BACKGROUND

On August 30th, 2016, WaterSignal installed devices to monitor various campus water meters for an Atlanta university.

With seven campuses throughout metro Atlanta, the university boasts a rich experience with award-winning housing, hundreds of student clubs and organizations, and one of the most diverse student bodies in the country.

2. ANALYSIS

On June 7th, 2018, WaterSignal alerted facility managers to rapidly climbing usage on a main domestic water meter.

When the WaterSignal device detected consumption exceeding the daily preset limit, facility managers were instantly notified via SMS text and email.

3. SOLUTION

Upon receiving the alert, facility managers began inspecting the affected building for issues.

The facility managers were able to track the excessive usage to a valve controlling make-up water on the cooling tower. The valve had malfunctioned, allowing water to continuously overflow. The cooling tower fan motor had malfunctioned as well.

4. BENEFITS & RESULTS

WaterSignal provided facility managers with real time water data trends, allowing them to see the complete picture of gallons used.

Had the issue remained undetected, the university would have continued to use nearly 430,000 gallons per week; 170,000 gallons over the average weekly usage the previous year.

After the installation of WaterSignal's real time water monitoring, the following findings were evident:

- » Real time water monitoring provided instant access to hourly data trends
- » WaterSignal's 24/7 leak alerts quickly discovered the leak and alerted property management via SMS and email
- » Cooling tower malfunctions were discovered and repaired
- » Savings of \$5,000/week (Based on local water/sewer rate of \$29.20/1000 gals)

