Main Campus Utilities Update
Ben Fish
IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

University of Iowa Water System Has Levels of Total Trihalomethanes (TTHM) Above Drinking Water Standards

The University of Iowa recently received notice that its water system violated a drinking water standard. Although this is not an emergency, as our customers, you have a right to know what happened, what you should do, and what we are doing to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results we received on May 5, 2017, show that our system exceeds the standard, or maximum, contaminant level (MCL), for total trihalomethanes (TTHM). The EPA standard for total TTHM is 0.080 mg/L. The average level of TTHM over the last year in the UI system was 0.075 to 0.91mg/L.

Please note: the April sample results for all campus locations were well within the standard for TTHM, ranging from 0.038 mg/L to 0.044 mg/L. The sample result at the Hawkeye Campus was 0.044. The result at the Hawkeye Campus, while currently meeting standard, was not low enough to bring the annual average for that location below 0.080 mg/L, and so notification is required. The annual average results for TTHM at all other campus locations were below the 0.080 standard.

What should I do?
There is nothing you need to do at this time.
Water Quality Update

• Water is produced in compliance with the Safe Drinking Water Act
  • IDNR enforces the Act

• TTHM are a byproduct of organic material and chlorine
  • First added to Safe Drinking Water Act in 1978, 4 years after initial passage

• All April TTHM samples are below 0.08 ug/L

• Compliance is calculated based on the annual average

• Hawkeye Tennis and Rec sample point the only point above annual average
Campus Steam Demand
Nov 1, 2016 to Dec 13 2016
Steam Flow Peak vs Low Temp (4 HR AVG)

Main Campus Steam Capacity - TG#6 down, No Lot #11 Boilers
5 Buildings Responsible for 25% of Total Steam Demand

14 Buildings Responsible for 50% of Total Steam Demand
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Steam System Capacity Constraints
Boiler 10 Boiler MACT Project

- Original completion date was October 2016
- Boiler started up two weeks ago
WCB’s have exceeded useful life
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Lot #11 Rental Boilers

• Capacity addition of 120,000 kpph
• Temporary variance from Iowa DNR for operation permit
• One boiler removed – remaining capacity of 60,000 kpph
• Remaining boiler-permanent permit to operate
Lot #11 Rental Boilers

- Construction completed in February 2017 with building enclosure
- Water trailer will be moved into building
- Boilers will be used until Main Power Plant expansion project is complete
Power Plant expansion location
Main Campus Chilled Water Capacity
2016 Chilled Water Use

7 buildings responsible for 50% of chilled water demand

3 buildings responsible for 30% of chilled water

Chilled Water Usage
Cumulative %
Building Air Conditioning Options

• Rental chillers are not an option like rental boilers.

• FM is developing a plan for rationing of air conditioning.
  – This is separate from and different than curtailment

• Purpose of rationing is to maintain cooling to critical buildings-patient care and animal research.