Fitwel Water Management Program Standard
Fitwel Water Management Program Standard*

A qualifying Water Management Program must include all of the following steps:

- Establish a multidisciplinary water management program team that includes representatives from the following groups:
  - building owner/management team
  - technical experts

- Describe the building water system in graphic and written form, outlining the following:
  - Process Flow Diagram (simple one page diagram)
    - connections to external water sources
    - distribution system for drinking water supply, including the following:
      - receiving
      - cold water distribution
      - heating Methods
      - hot water distribution
      - waste (water to drain or sewer)
    - location of hot tubs, water heaters or boilers, and cooling tubs
  - Written Water Use Descriptions
    - short descriptions of how the water is processed and flows through the building to the point of distribution at fixture locations

- Identify hazards (physical, microbial, or chemical) and characterize the risks for contamination of drinking water quality, such as:
  - high water temperatures (i.e. physical hazard)
  - old pipes that leach metals into water (i.e. chemical hazard)
  - areas with major water stagnation (i.e. microbial hazard)

- Determine hazard control measures that can be applied to reduce risk of contamination, such as:
  - flushing protocol with frequency (daily/weekly/monthly) and duration (minutes)
  - maintaining water heaters at appropriate temperatures
  - replacing old piping and fixtures
  - continuously maintaining and monitoring disinfectant and chemical levels

- Determine how control measures can be regularly monitored through strategies, such as
  - visual inspections
  - checking disinfectant levels
  - checking temperatures
Establish interventions and/or contingency responses (pre-determined corrective actions) to bring control measures out of range or above limits back into range, such as the following:

- bring temperature into range when water temperature is too high
- call service tech to repair when equipment pump fails
- flush fixture for 3 minutes when oxidant levels are low

Develop procedures to confirm the water management program is operational throughout the building water system

- verification: confirm that program is being implemented as designed (e.g. keeping records that WMP team did what they said they would do)
- validation: confirm program has been implemented as designed and is effectively controlling hazardous conditions throughout the building water system through the following:
  - determining test(s) to perform and frequency
  - performing test(s) to determine if the water system is operating safely and if results are outside healthy range/limits determine how to respond to bring water quality back into range/limit

Document water management activities and inform building occupants about issues with drinking water quality

* Fitwel Water Management Program Standard adapted from the following resources: