

# Safety in the Woodshop

May 2015

- Hazards of hot water recirculating systems in homes

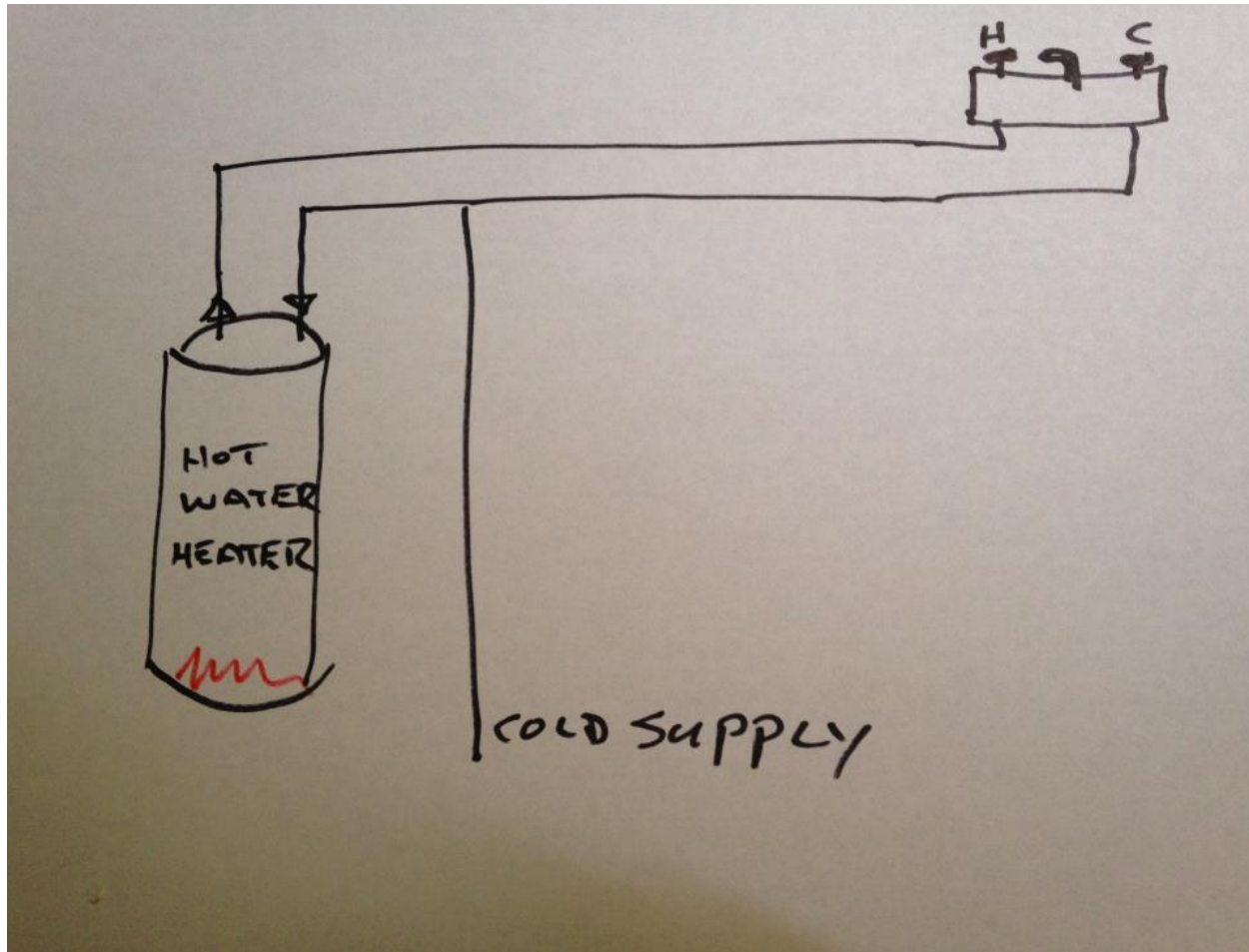
# Drought Actions

- Installation of hot water recirculation water systems using a pump help save water in the home, but may have unintended consequences...

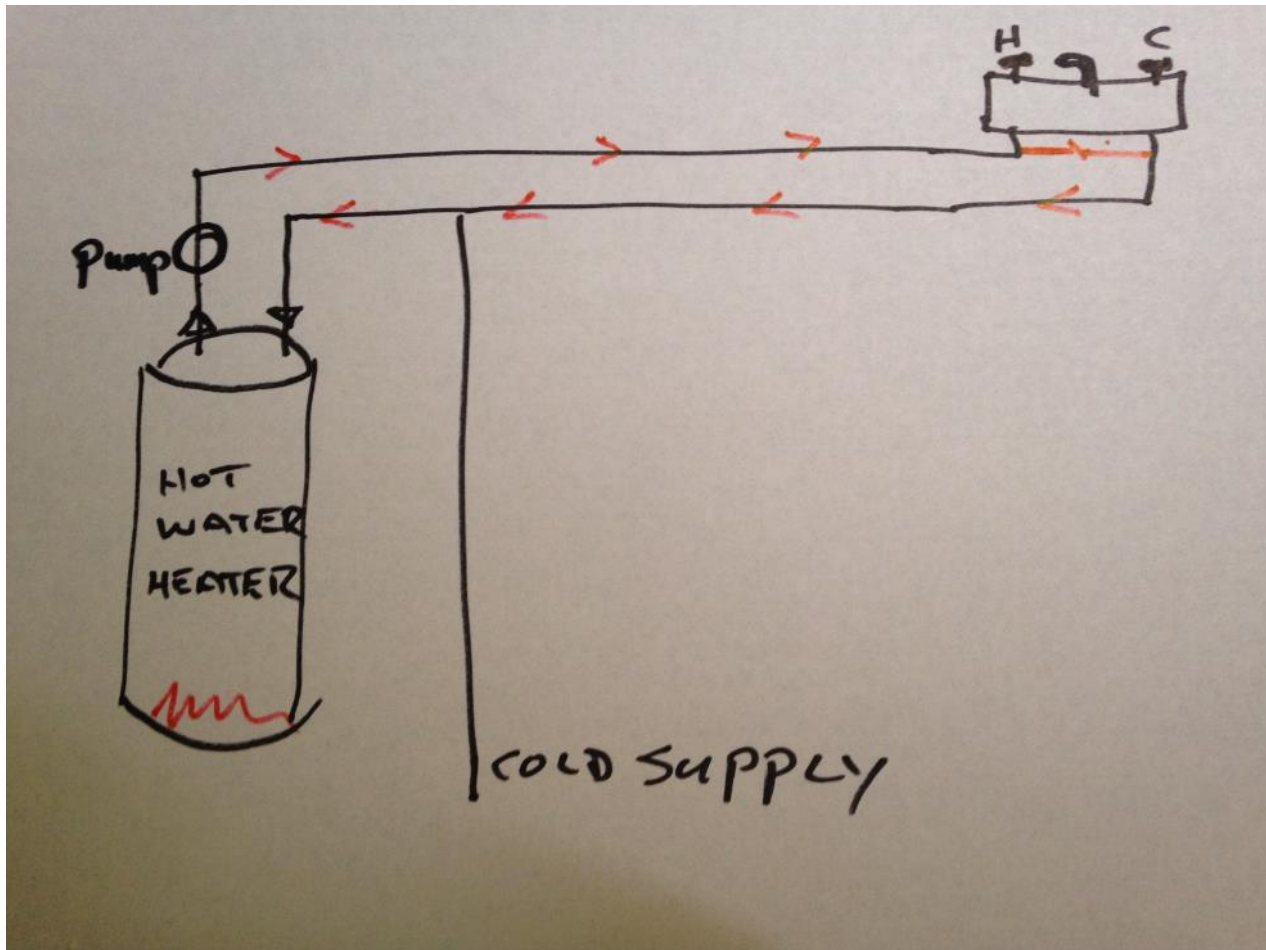
# Premise

- Don't drink water that has been passed through the hot water heater: it may contain metals (copper, lead, etc.) that are leached from the plumbing.

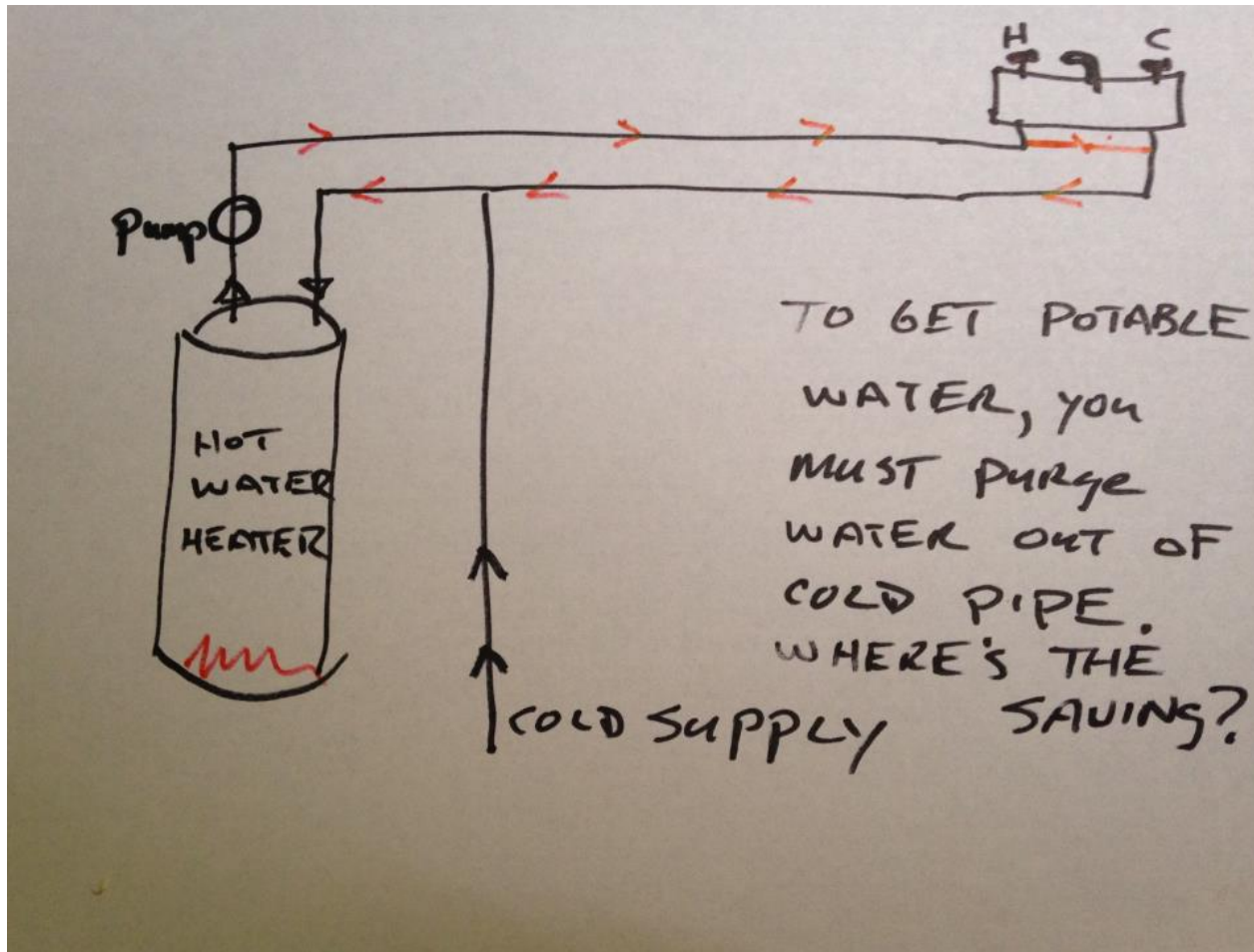
# Normal plumbing to sink



# Addition of a pump and cross over connection at distant faucet



Purging the cold water pipe wastes the water that you wanted to save



# Solution?

- Drink bottled water
- Run a separate return line, perhaps using 3/8" copper tubing from the distant faucet instead of using existing plumbing. If you have a slab floor or multilevel house, this may not be an option.

# One more thing

- If the recirculating water ends up going to the toilet, the potential warm water could cause the toilet porcelain to break due thermal shock. Toilet tanks sometimes crack with too cold of water hitting them; the same could be true with warm water



Any plumbers in the house tonight?

- Feed back?