We work with others to protect the health of the people of Washington State by ensuring safe and reliable drinking water.

LEAD AND COPPER IMPLEMENTATION
Washington State Department of Health Office of Drinking Water

DWAG
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Overview of Implementation Changes

- Sampling Collection—Compliance Period
- Treatment Monitoring
- New or Changes in Source and Treatment

Sample Collection
Lead and Copper Sample Collection

• Collect 1-liter first-draw samples after water sits in pipes for at least 6 hours, but recommend no more than 12 hours.

• Collect from cold-water tap of regularly used kitchen or bathroom faucet. Consumption taps for NTNCs.

• Collect between June and September for annual or 3-year periods.

• Ensure you know if aerators removed or about any changes in plumbing/treatment.

From Lead and Copper Rule Guidance

Asks
- Used regular kitchen/BR?
- Stagnation time?
- Plumbing repairs done?
- Water softeners used?
- Gives you the information you need to not submit.
Really—June to September

- Warmer water is more corrosive
- We’ve been telling water systems to collect in the correct time for years
- Systems will need to sample at right time
  - Violations
  - Required in the following year
- Recommend sampling June to August for flexibility

Treatment Monitoring
Monitoring After Treatment Installed

- **Lead and Copper Tap Samples**
  Must meet action level in two consecutive six-month sets

- **Water Quality Parameters**
  **Entry Points (At least every two weeks)**
  pH; Alkalinity (if adjusted); Inhibitor concentration (if used); Chemical Dosage (if used)

  **Distribution Sites (Quarterly)**
  pH; Alkalinity; Inhibitor concentration (if used)

Optimal Water Quality Parameters (OWQPs)

ODW has to set OWQPs
- Set pH minimum or range at **each** entry
- Set minimum distribution pH. Must be $\geq 7.0$
- Set alkalinity minimum or range of concentrations at each entry and in distribution, if adjusted
- Set minimum or range of concentrations for the inhibitor at entry and in distribution, if adjusted
How Do We Set Them?

- Use water quality data collected at the same time as lead and copper tap samples
- Water system submits recommendation for OWQPs
- Base on targets from the design

What is Done With OWQPs?

- Water systems are required to maintain corrosion control treatment
- Large systems (>50,000) or small and medium systems that exceed an action level and have treatment must collect WQPs (entry and distribution)
- If the system does not meet the OWQPs for more than nine days in any six-month period, it’s TTV
Nine Days?

- You must meet your OWQPs 95 percent of the time (or have no more than nine excursions within a six-month period)
- You have an excursion if from the time you collect the sample that doesn’t meet the OWQPs and the next sample day

Example

- Entry Point—OWQPs minimum pH 7.3

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What Else Should I Know

Any New or Change in Source or Treatment

- Systems required to notify us ahead of time
- Evaluate the potential for increased lead and copper at customer’s taps
Project Reports Must Include Evaluations

- **Base Line WQP**
  - Know entry point and distribution system
  - pH
  - Alkalinity
  - ORP
  - Chlorine Residual
  - Inorganics (Fe, Mn, Al, Cl, SO₄)

- **How does it affect?**
  - **New Source**
    - Compare to new sources WQP to the base line
  - **New or Change in Treatment**
    - How does the treatment affect WQP—decrease in pH, ORP
    - Change in coagulant—look at CSMR

Evaluations and Recommendations

- No action or monitoring
- Install CCT
- Move up Annual Sampling
- Assigned back to standard monitoring
- Collect WQP
Questions?