



500 West Big Beaver
Troy, MI 48084
troymi.gov

CITY COUNCIL AGENDA ITEM

Date: October 15, 2019

To: Mark F. Miller, City Manager

From: Bob Bruner, Assistant City Manager
Kurt Bovensiep, Public Works Director
Paul Trosper, Water and Sewer Operations Manager

Subject: 2019 Lead and Copper Rule Monitoring Update

Lead and Copper Rule

- The Lead and Copper Rule is a United States federal regulation which limits the concentration of lead and copper allowed in public drinking water at the consumer's tap. The purpose of the Lead and Copper Rule (LCR) is to protect public health by minimizing lead and copper levels in drinking water.
- The U.S. Environmental Protection Agency first issued the rule in 1991 pursuant to the Safe Drinking Water Act after studies concluded that copper and lead have an adverse effect on individuals.
- The rule establishes action levels for lead and copper based on a 90th percentile level of tap water samples. An action level exceedance is not a violation, but triggers other requirements to minimize exposure to lead and copper in drinking water, including water quality parameter monitoring, corrosion control treatment, source water monitoring/treatment, public education, and lead service line replacement.
- To the best of our knowledge, none of the homes in the City of Troy contain lead service lines. Any trace amounts of lead can be attributed to the particular fixtures from which the water samples were drawn or the solder used on the home's plumbing system.

Troy Lead and Copper Rule Monitoring

- The City of Troy Water & Sewer Division recently completed the 2019 round of water quality testing for lead and copper.
- In 2018, The Department of Environment, Great Lakes, and Energy (EGLE) mandated new rules which required all community water systems to test for lead and copper in 2019 to help establish new guidelines. Part of the new procedure involved expanding the number of sample sites based on population, which meant increasing samples in Troy from 15 to 30.
- The testing procedure requires that a sample must be taken after a minimum of six (6) hours of no water use within a home, this gives the water time to absorb any trace elements that may be in the service line or the plumbing fixture from which the sample is being taken.

2019 Testing

- Of the 30 samples taken from Troy residential homes, all tested below the action levels for both lead and copper; action levels are 15ppb (parts per billion) for lead and 1,300ppb for copper.
 - Lead levels were between 1.4ppb and <0.2ppb.
 - Copper levels were between 150ppb and 3.60ppb.
- Once the results were received, the Troy Water and Sewer Division was required to inform all residents whose homes were used for sampling of their results and complete a detailed report for EGLE.