

# Kentucky Rural Water Association

Martin County Water District  
Workgroup Meeting  
November 18, 2020

# KRWA Assistance Hours

- Quarterly hours dedicated to MCWD – 203.5
  - Compliance – 4.5
  - Technical (on-site) - 199
- Assistance made possible through funding by:
  - KY Division of Water – Small Water System Technical Assistance Program
  - Appalachian Regional Commission – Water & Wastewater Technical Assistance Program
  - USDA / Rural Development – Circuit Rider Program

# Compliance Assistance

- Lead & Copper
  - Calculated compliance
    - Lead (Action Level – 15 ppb)
      - 90<sup>th</sup> percentile 2.0 ppb (range 0.0 – 5 ppb)
    - Copper (Action Level – 1.3 ppm)
      - 90<sup>th</sup> percentile 0.052 ppm (range 0.004 – 0.436 ppm)
  - Results mailed to customers
  - Submitted compliance certification
- Electronic Reporting
  - Established KY Online Gateway Account
  - Updated Monthly Operating Report
  - Successfully submitted September MOR
- Delivered 21 packs of cloth masks from KYWARN

# Technical Assistance

- KRWA sent three staff to assist MCWD with leak detection and repair during the last two weeks of October.
- Prior to KRWA's arrival four MCWD staff quit bringing the total to six staff recently departed. Despite the set back everyone pitched in to make the most of an unfortunate situation.
- In addition to leak detection KRWA staff completed routine work orders.

- Work Orders
  - Line locates
  - Leak investigations - repaired
    - Two small meter service leaks (2 gpm)
    - One small service line leak (2 gpm)
    - Discovered 35 gpm leak at an abandoned service
    - Observed evidence of two tank overflows. Needs further investigation.
  - Pressure complaint - resolved
    - Leaking PRV at a meter service
  - Water outage compliant - resolved
    - Failed 2" main line PRV resulted in no water to four customers
    - PRV was disassembled, problem identified and a rebuild kit ordered
    - Water service restored by adjusting individual PRVs on the customer side of the meter

- Leak Repairs

- Three known leaks repaired in high hazard areas
- KRWA helped with traffic control and safety
  - Blacklog Road
  - Rt 3
  - Rockcastle tank area (est. 35 gpm)

- Leak Location

- Located 15 valves in the Buck Creek and Coldwater zones to facilitate leak detection
- Exercised five valves, replaced one, realigned 2
- Pinpointed two 10-15 gpm leaks
- Located two 50 gpm leaks in the Inez zone
- Discovered dead meter at Inez Grade School

- Pressure Regulation
  - Inspected main PRV and pump stations
  - Adjusted PRVs following leak repairs
  
- Summary
  - Completed 20 work orders
  - Repaired seven leaks recovering estimated 75+ gpm
  - Located four leaks estimated to recover 130 gpm
  - Exercised 5 valves
  - Discovered one large meter not working
  - Restored service to four customers
  - Identified tank overflow issue

# Wrap-Up

- Recommendations

- Provide control valve operation & repair and leak detection training to new employees
- Train new staff on GIS leak tracking application
- Develop other GIS workflows to spatially track maintenance
- Engage engineering to evaluate the proper application of existing PRVs
- Balance short-term operational needs with capital projects



# Final Note

A customer approached Tim while a leak was being repaired and commented that he could really tell a difference since Alliance was hired. Beforehand we he rarely saw anyone working nowadays every time he sees a district truck someone is working on the system.

# Questions?