

Sample Use Cases for Community Water System Service Area Boundaries

Health and Emergency Response: *Uses with focus on population potentially affected by quality of their drinking water*

- Identify population groups who might be affected (such as, children, elderly, low income) by threats to community water system (CWS) supplies, infrastructure, or delivered water quality.
- Conduct environmental justice analysis as part of new and existing Safe Drinking Water Act rules.
- Estimate cumulative exposures. For example, combine drinking water exposure with other risk factors, such as, older housing stock, to better assess risk of lead exposures.
- Emergency planning and notification.

Planning and Affordability: *Uses related to evaluating and improving drinking water infrastructure planning, and evaluating affordability and equity in the delivery of drinking water services*

- Identify CWSs with underserved populations for technical assistance or enforcement.
- Characterize lead service line replacement needs and demographics of those households.
- Evaluate future water demand and supply options within and beyond service area boundary.
- Characterize affordability of CWS-supplied drinking water on household income.
- Determine grant eligibility and prioritization of State Revolving Fund allocation.
- Carry out equity analysis of drinking water resources.
- Support Justice40 goals related to communities benefiting from federal investments.
- Analyze climate change risks within service area boundary.

Information Sharing: *Use cases related to empowering the public with information*

- Enable drinking water supplier look up.
- Foster research and interagency collaboration related to CWS delivered drinking water.