

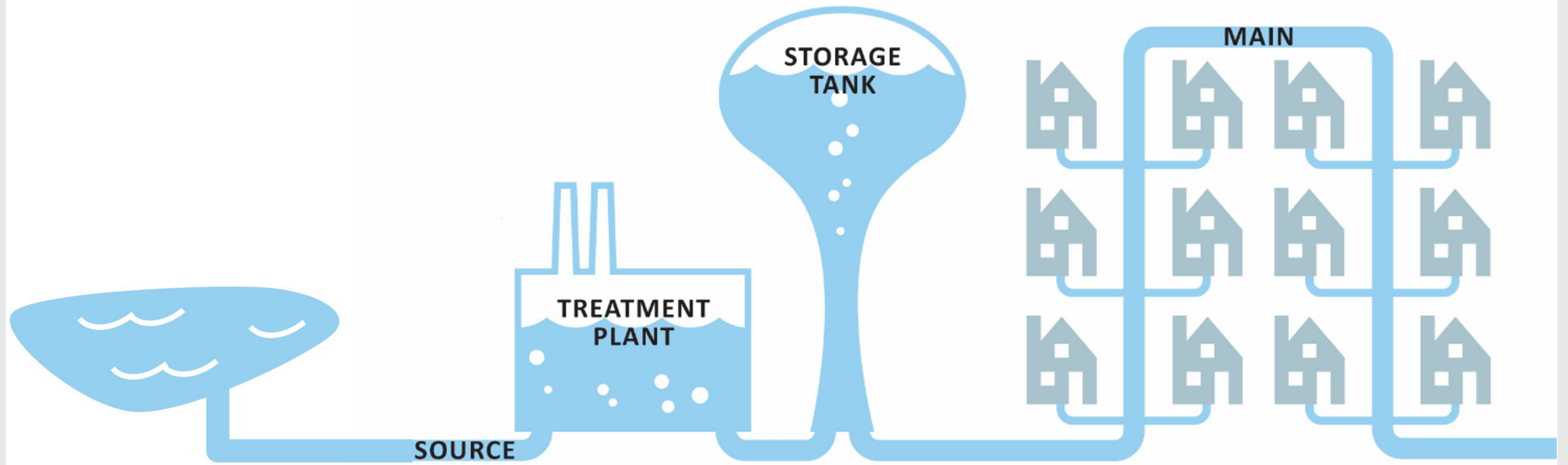


# Multi Community Source Water Protection Pilot

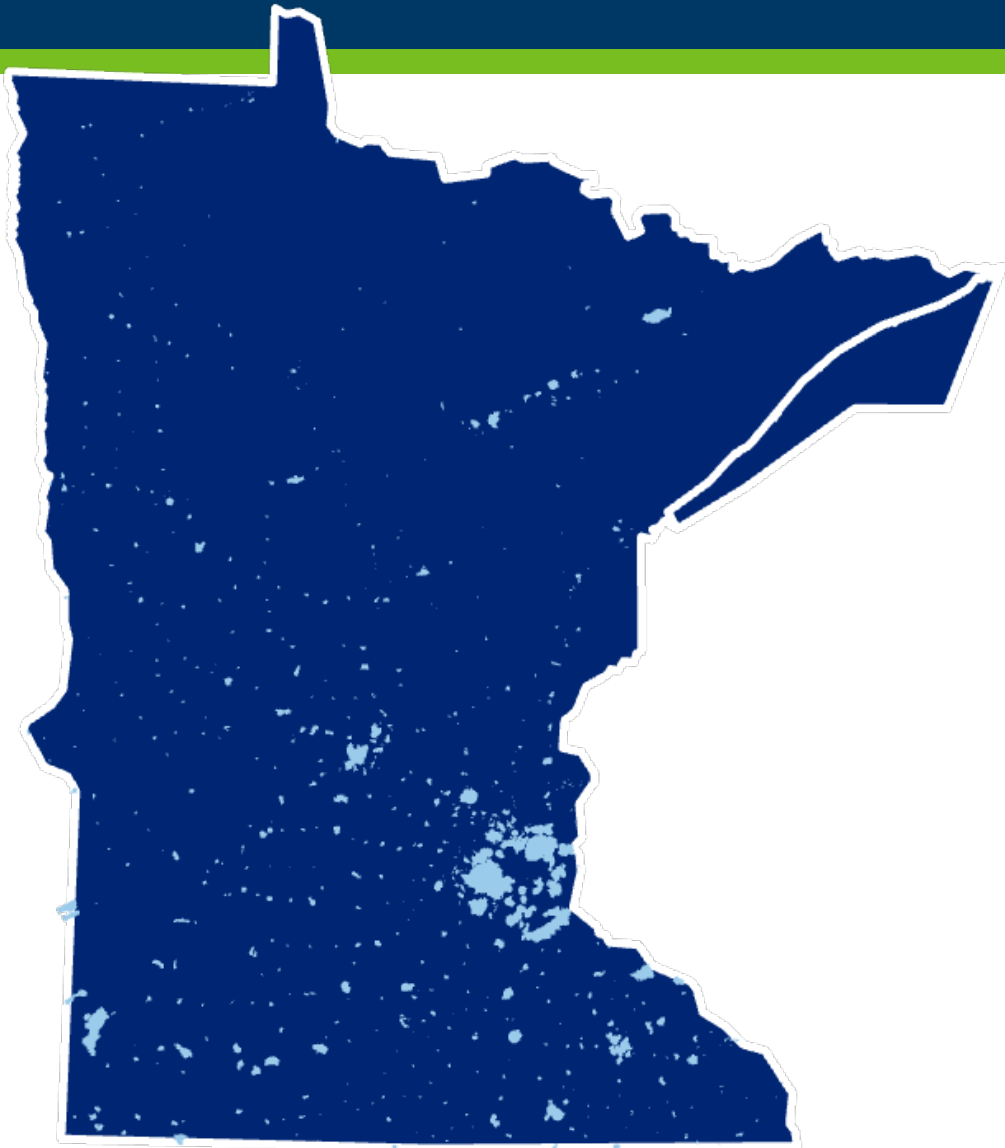
Lanya Ross | Metropolitan Council

Steve Robertson | Minnesota Department of Health

# Source to Tap Framework for Protecting Drinking Water



# How does MDH facilitate Source Water Protection?



- Objective, science-based planning process
  - Modeling to delineate Drinking Water Supply Management Areas (DWSMAs – Dwiz-muh)) around drinking water sources
- Planning to identify threats and outline activities that prevent contamination in the DWSMA



# Metro Area – considerations driving protection approaches

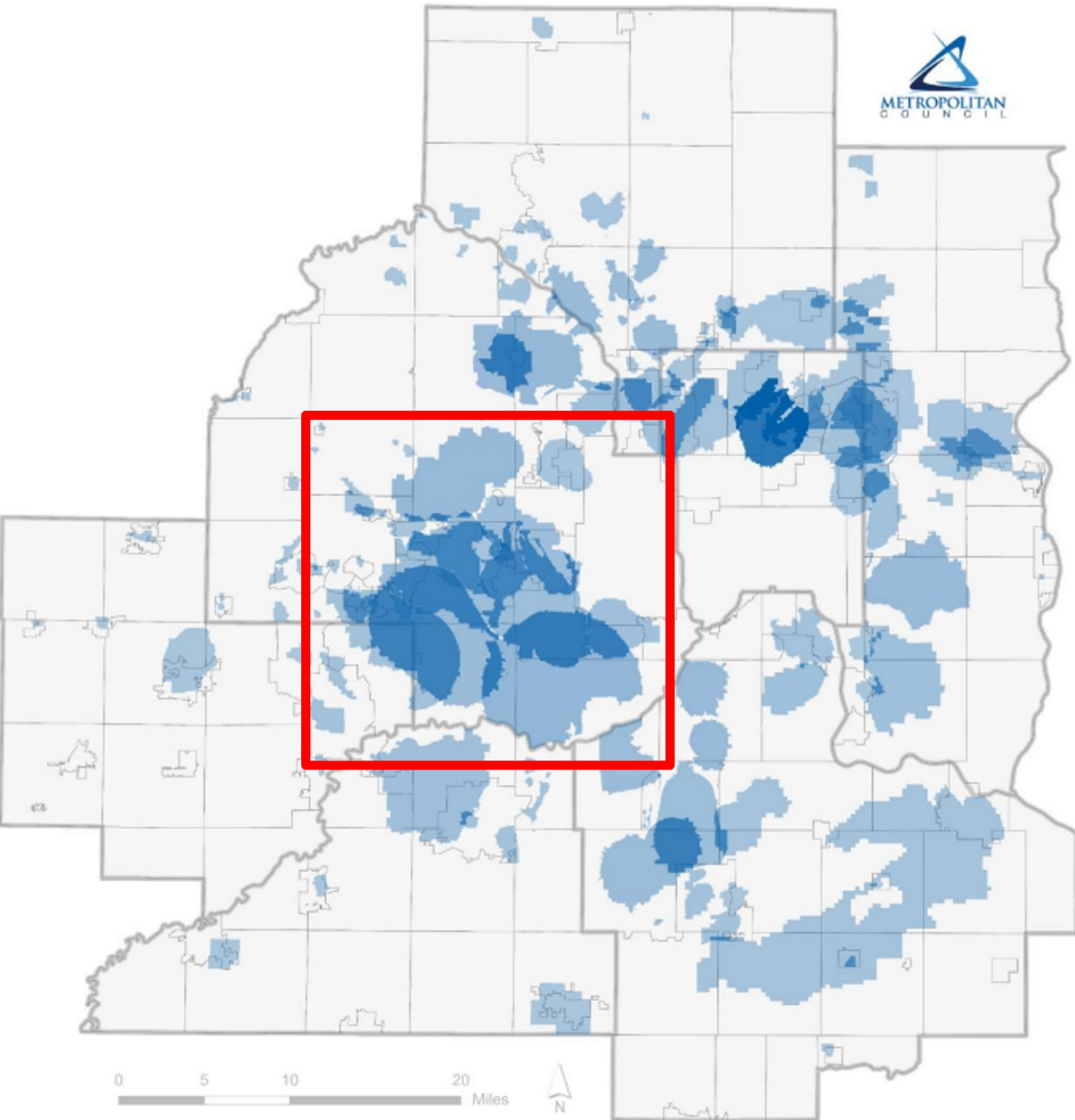
- Large population/many systems
- Different sources
- Vulnerable DWSMAs

- Extra jurisdictional issues
- Inconsistent planning
- Lack of coordination



rest Lake





Population served



0

400,000+

Some areas contribute to populations as small as around 200 people (East Bethel).

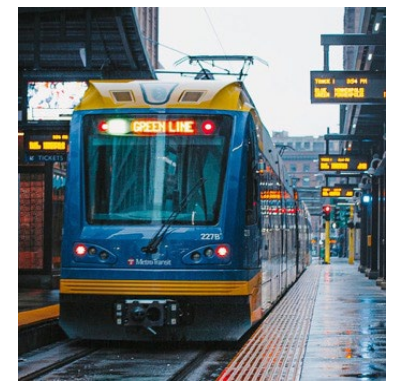
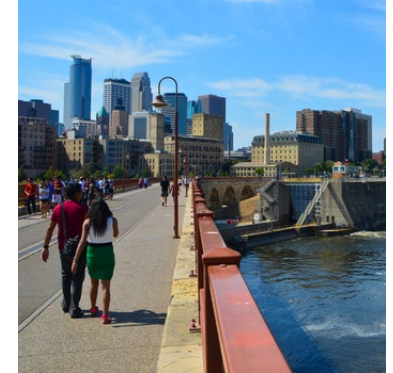
Some areas contribute groundwater to water supply systems serving more than 400,000 people (St. Paul and its overlapping areas).

# Metro DWSMA Overlap

# No one community can do it alone

**Every single person and community makes up the fabric and essence of this region.**

- 7 counties
- 182 cities and townships
- More than 3 million residents
- Native people from 11 federally recognized Minnesota tribes and many other tribal communities
- Growing diversity representing wide-ranging racial and ethnic people, with about 300 languages spoken at home



# Metropolitan Council



## Metro Area Water Supply Plan (MWSP)

- **Met Council supports local water suppliers in their efforts to ensure sustainable water for today and for future generations**
- Regional issues and policy solutions
- Subregional chapters
  - Issues
  - Opportunities
  - Strategies
- Companion to Water Supply Planning Atlas

# Vision and approach

A coordinated and collaborative approach that protects and safeguards regional drinking water sources, by reducing barriers and improving local drinking water protection implementation in overlapping DWSMAs or where DWSMAs extend into a neighboring city.





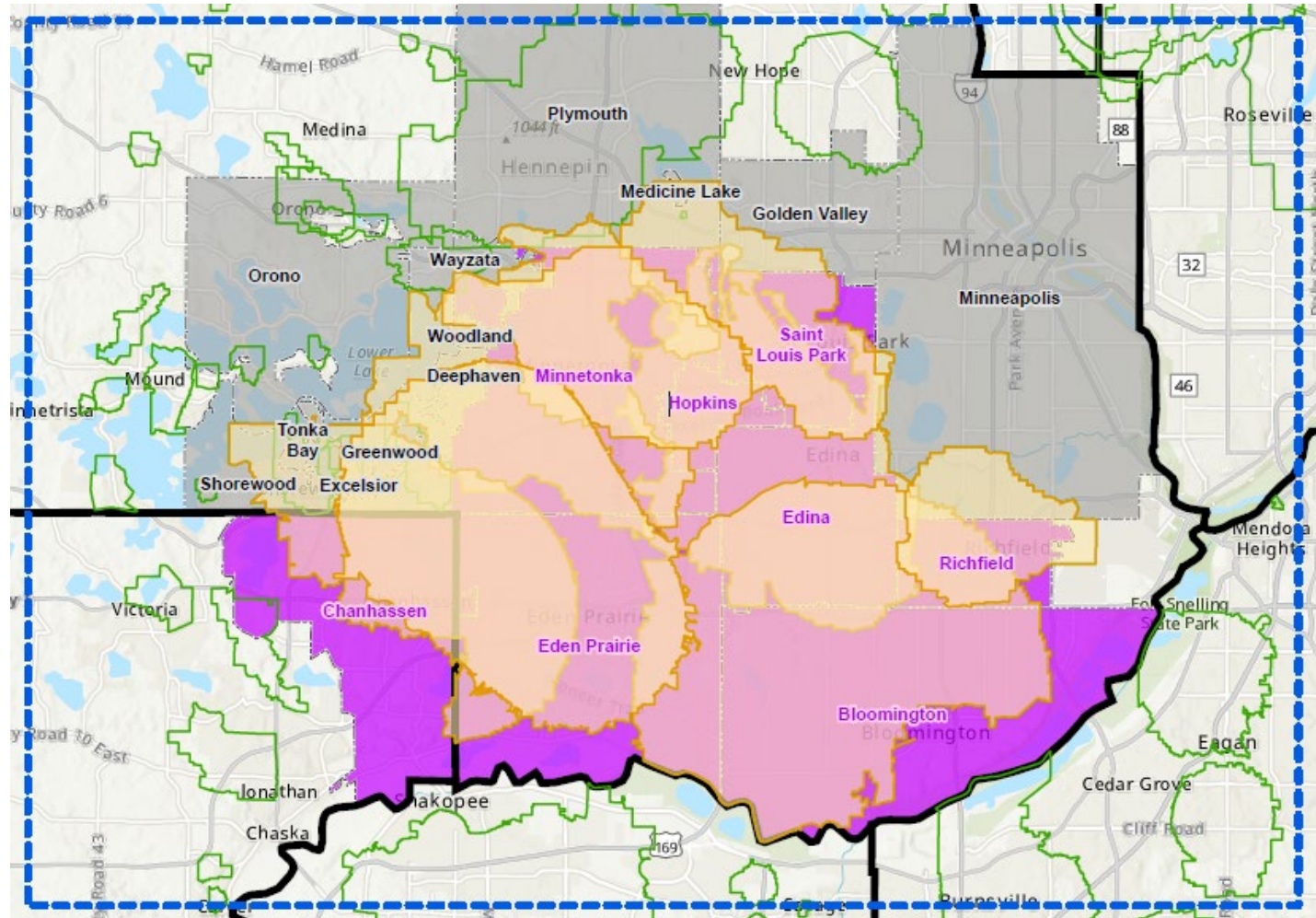
# Metropolitan Council









## Multi-community Wellhead Protection Plan

- Reduce barriers to collaboration by cities with overlapping DWSMAs
- Enhance implementation efforts for regional benefit
- Benefits to communities include:
  - Use up updated regional groundwater model at no cost to systems
  - Coordinated and prioritized implementation activities
  - Reduced time required for individual city WHP planning and implementation

# Phase 1 in progress: Subregional DWSMA delineation and assessment



-  Proposed existing DWSMAs to be included and updated
-  Other existing DWSMA
-  Proposed community where DWSMAs to be updated or delineated
-  Other study area community, DWSMAs may overlap these communities
-  County Boundaries
-  Proposed Local Model Extent



# Thank You!

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