

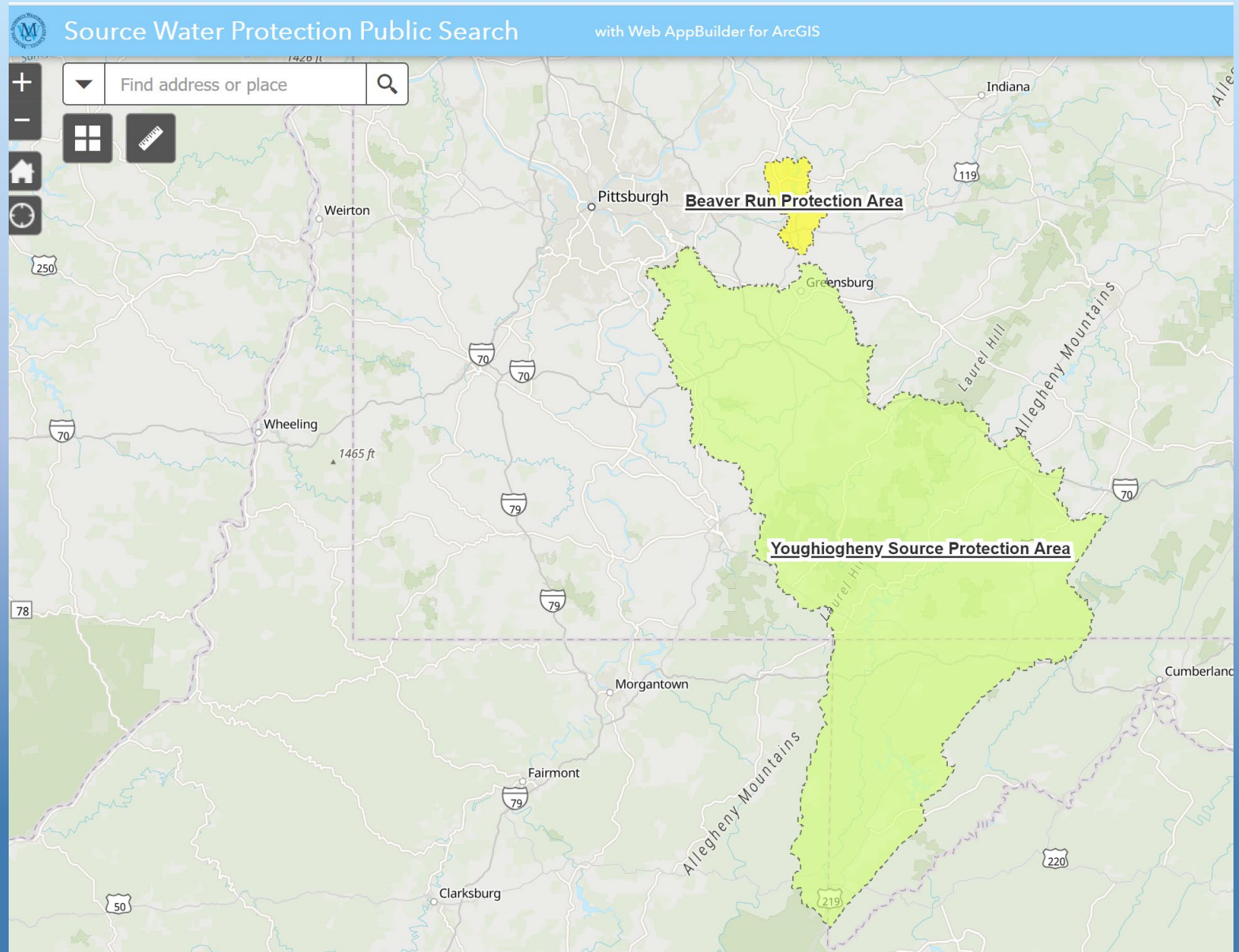
MAWC Source Water Protection

3RQ Roundtable Series

Feb. 2nd 2021



<https://www.mawc.org/swp-map>



Challenges to Water Treatment

AWWA 2020 State of the water industry top 10 list

<https://www.awwa.org/Professional-Development/Utility-Managers/State-of-the-Water-Industry>

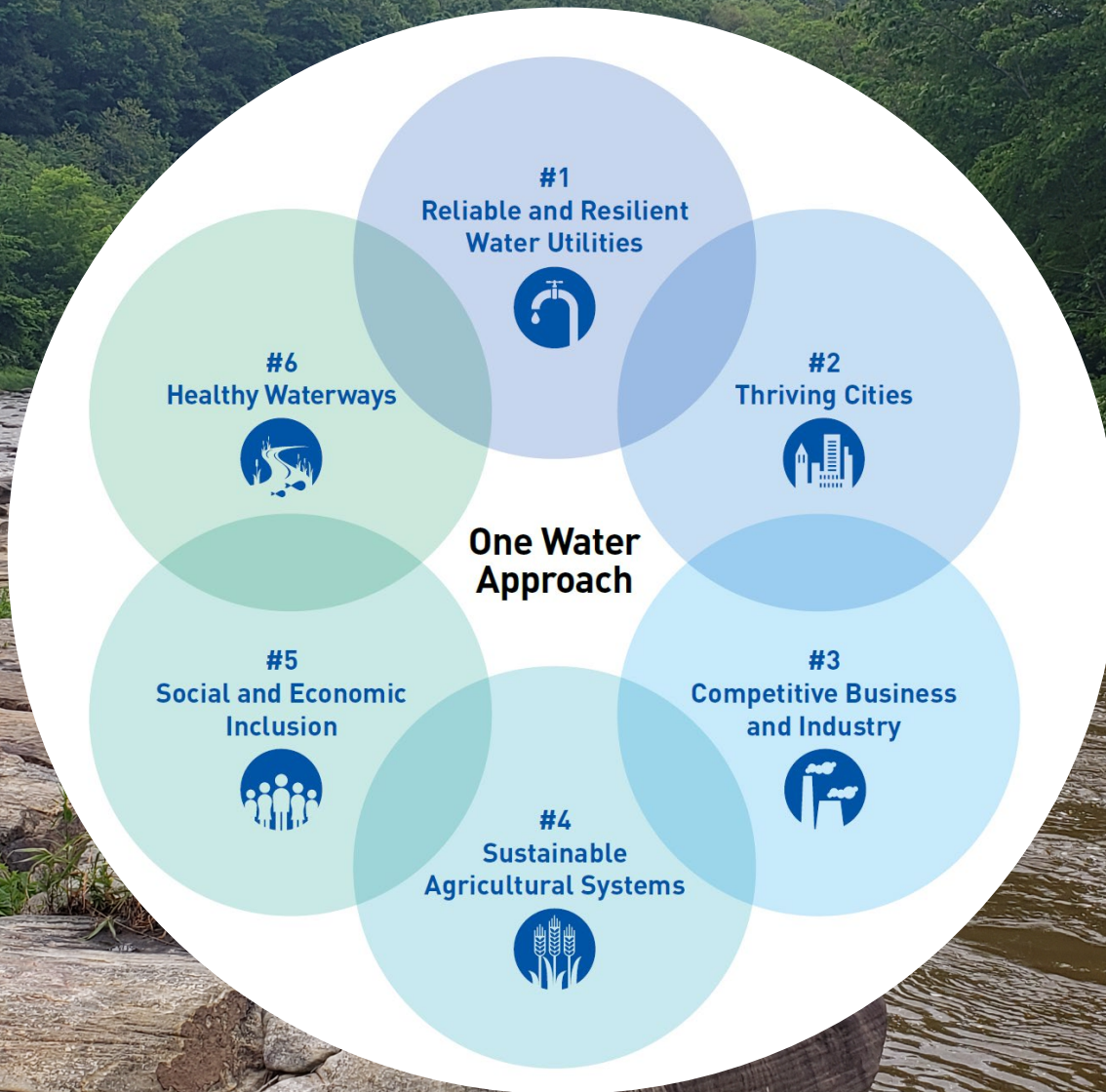
1. Renewal and replacement of aging water and wastewater infrastructure
2. Financing for capital improvements
3. **Long term water supply availability**
4. Public understanding of the value of water systems and services
5. **Watershed/source water protection**
6. Public understanding of the value of water resources
7. Aging workforce/anticipated retirements
8. Emergency preparedness
9. Compliance with current regulations
10. **Groundwater management and overuse**

Challenges to Water Treatment

Water Quality:

- Flashy or fluctuating water quality
- Combined sewer overflows which potentially lead to increased pathogens and nutrients
- Nutrients act as food for organics which can increase the potential for disinfection byproduct formation
- Algae feed on nutrients which can lead to taste and odor issues and potential harmful algal blooms
- Unknown and unregulated contaminants of concern

Source Water Protection



Source Water Protection



Water Quality

Shared Vision

Internal and External and
Outreach

Incident and
Emergency Response

Land Use
Management



Legend

National Aviary

Guardians of the West Fork

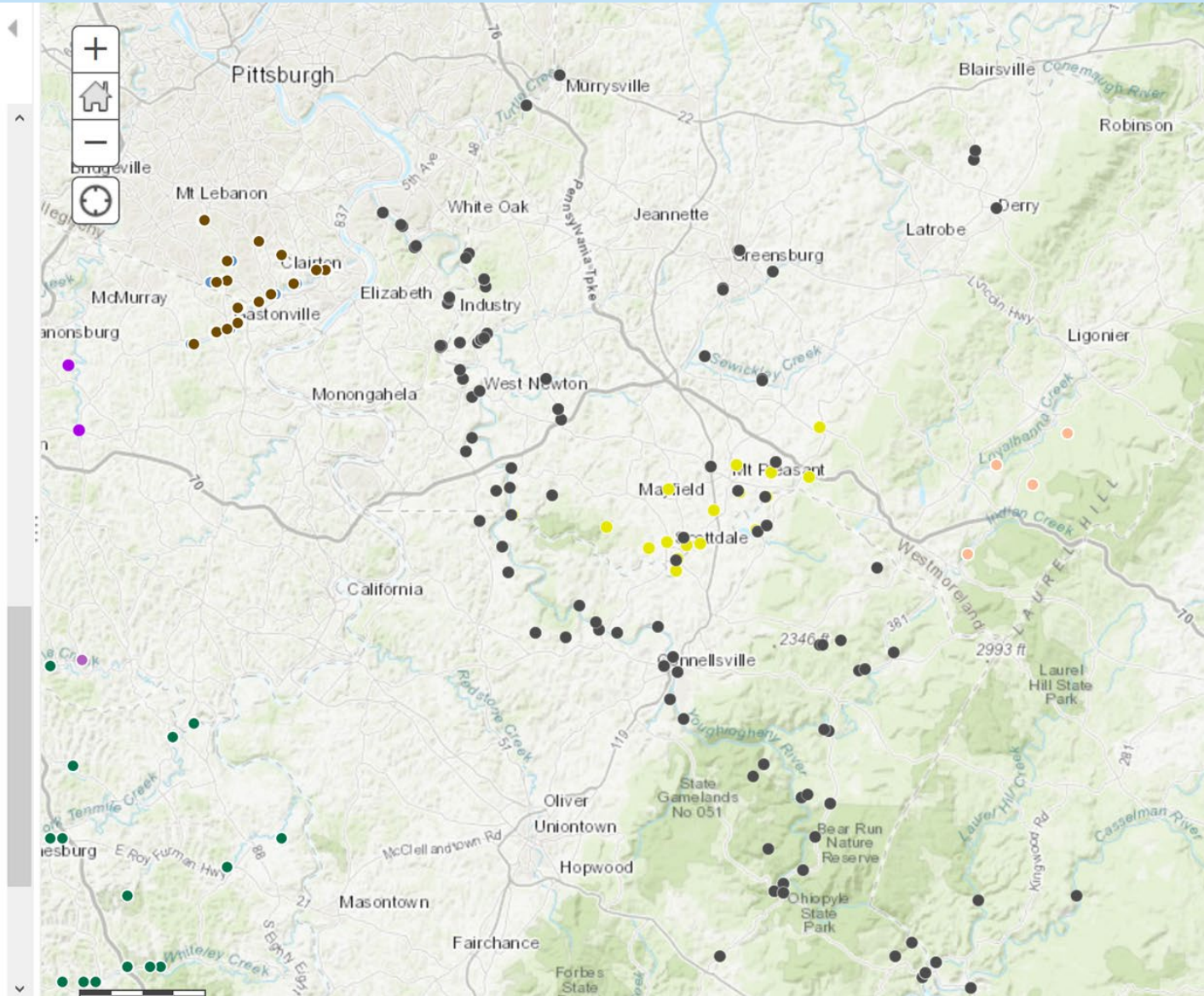
Greene County

Friends of the Hughes

Armstrong County

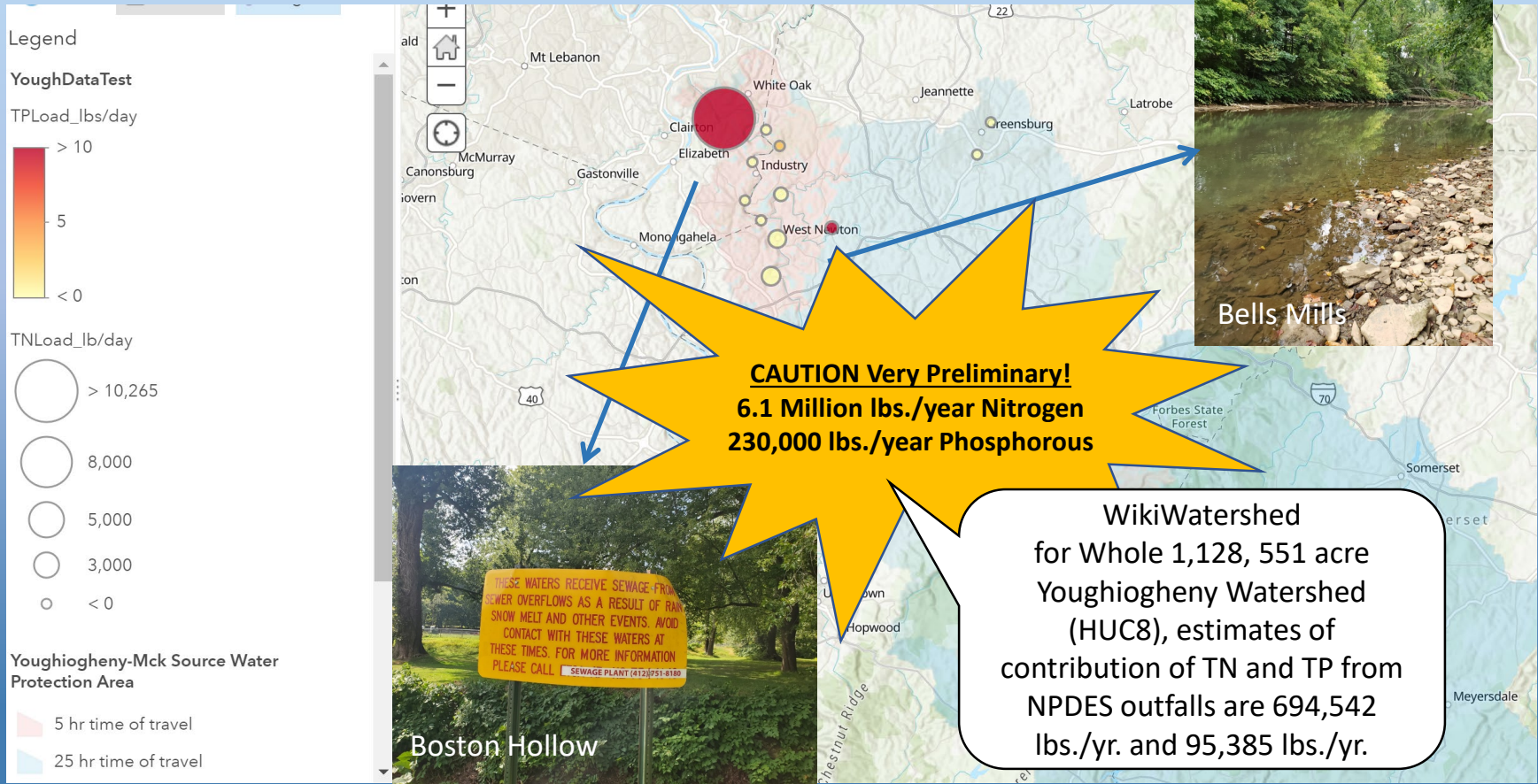
MAWC

Jacob's Creek



Youghiogheny Tributary Sampling Data

Total Nitrogen (TKN+ nitrate+ nitrite) and Total Phosphorous Loading



***The art and science of asking questions is the
source of all knowledge***

-Thomas Berger



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