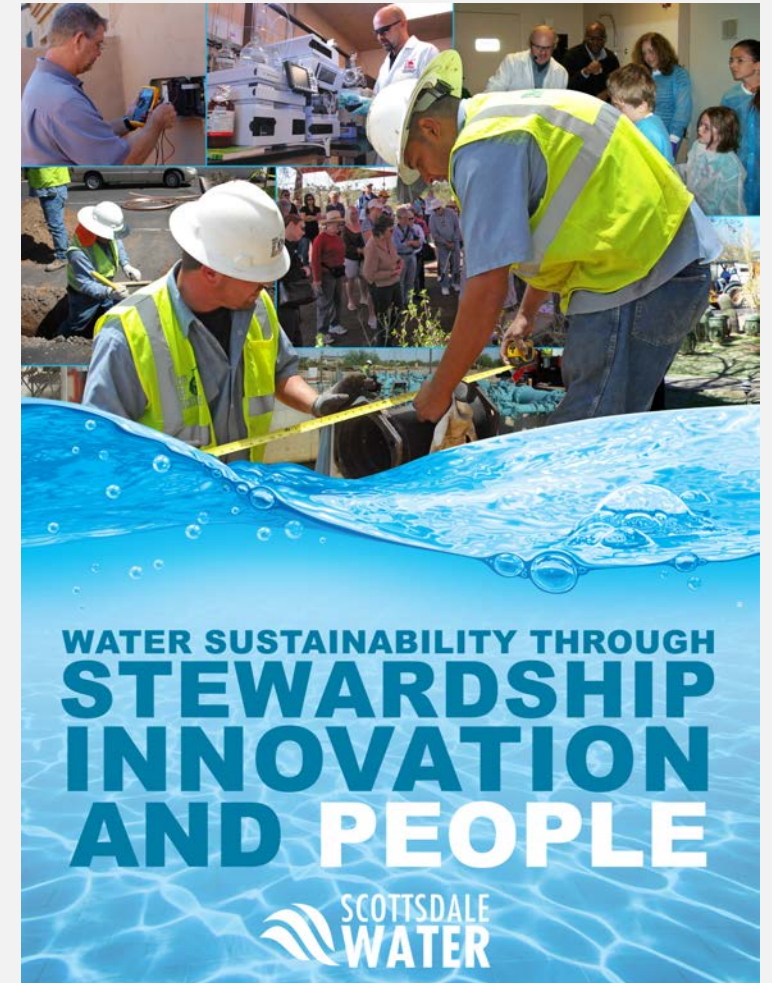
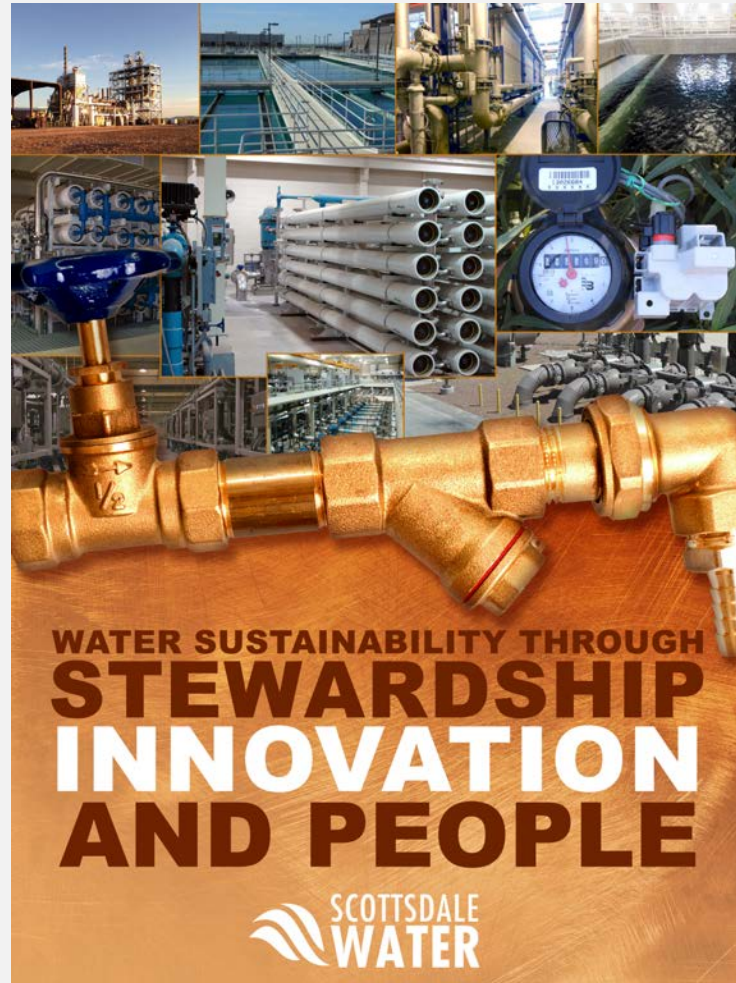
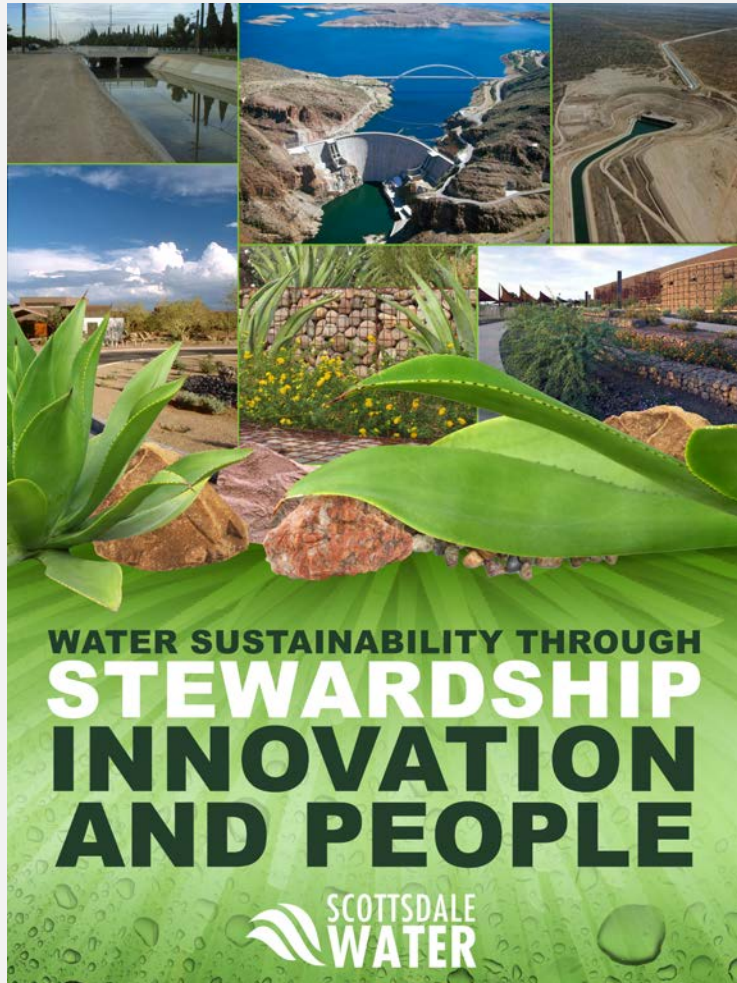


# Water Reuse and Technology Scottsdale Water's Experience

Brian K. Biesemeyer, PE, Scottsdale Water Executive Director



# Scottsdale Water's Vision



# Award-winning Utility

- 2019: Sustainability Champion, Arizona Forward Environmental Excellence Crescordia Award
- 2018: Sustainable Utility Management Award, American Association of Metropolitan Water Agencies
- 2017: Public Education Program of the Year (Scottsdale Water Citizen Academy), WaterReuse Association
- 2016: Utility of the Future Today, EPA and national consortium of water organizations

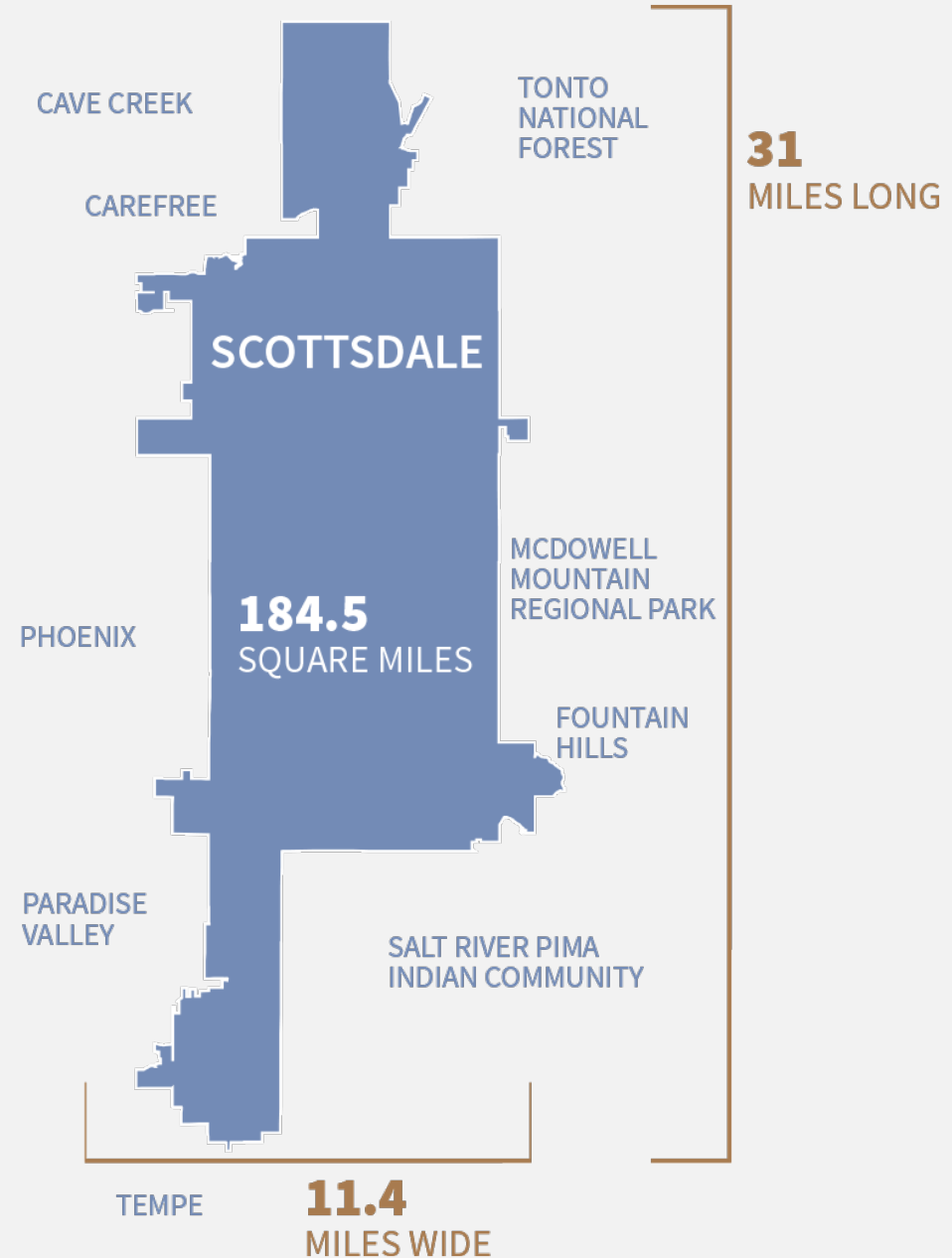


**ARIZONA FORWARD**  
ENVIRONMENTAL EXCELLENCE  
**CRESCORDIA AWARD**  
**2019**



# About Scottsdale

- Population ~ 258,000
- Build Out ~ 300,000
- New Growth - North
- 184.5 square miles
- 31 miles long
- Elevation change 3,727 feet



# Scottsdale Water's History of Sustainable Water Practices

- Gainey Ranch Water Reclamation Facility - 1981
- Water Campus – October 1998
  - Water Reclamation Plant
  - Advanced Water Treatment Facility
    - Ozone/Ultrafiltration/Reverse Osmosis/Ultraviolet Photolysis
    - Two end uses: recharge, golf course irrigation
- Safe Yield 2006
- First Facility DPR Permit – September 2019





# Why DPR for Scottsdale?

- The goal of the project/permit was to:
  - Assist ADEQ with developing the DPR permit process
  - Normalizing public perception about the safety of recycled water and explain the need of DPR for other communities in Arizona and around the country
  - Demonstrate Scottsdale Water's technology to the public

# ONE WATER

B R E W I N G   S H O W C A S E



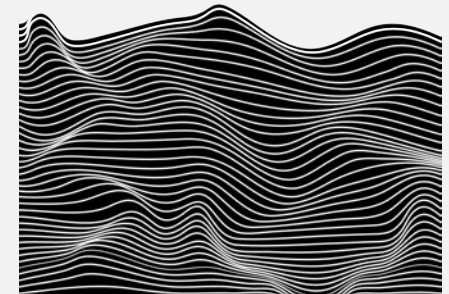
# One Water Brewing Showcase

Scottsdale partnered with Canal Convergence, the city's premier arts and education event, to host the world's first beer festival featuring only beer brewed with recycled water.

- 2019 Theme: The History of Water
- Attendance estimates were over 60,000 for November 8<sup>th</sup> and 9<sup>th</sup>
- Sustainability commitment: Certified Zero-Waste event in 2019



**CANAL**  
**CONVERGENCE** WATER + ART + LIGHT



# One Water Brewing Showcase



# One Water Brewing Showcase



## Continuing to Leverage Technology

- Optimization Control Room
- Membrane Surface Water Treatment
- O<sub>2</sub> Generation Systems for Lift Station Odor Control
- Fiber optic back bone connections



# Questions?

