

# NATIONAL WATER REUSE ACTION PLAN

The WRAP collaborative was developed with federal, state, tribal, local, and water sector partners to build technical, financial, and institutional capacity for communities to pursue water reuse practices.

When considered as part of an integrated, watershed-based management approach, reuse can enhance water security, sustainability, and resilience and help to solve local water resource quantity and quality challenges.

## WRAP Organizing Framework

More than 100 organizations and individuals have stepped forward to drive progress on 40+ water reuse actions across the WRAP's 11 strategic themes:



**Integrated Watershed Action:** Water reuse, as a water resource management tool, is most successful when viewed as part of the entire water portfolio at the watershed scale.



**Policy Coordination:** Federal, state, tribal, and local programs and policies can be aligned and coordinated to encourage consideration of water reuse.



**Science and Specifications:** Compile and/or create science-based specifications for all potential end uses of reclaimed water that help planners and policymakers better understand and consider potential sources and use applications.



**Technology Development and Validation:** Advances in treatment technologies and corresponding information on technology performance can accelerate water reuse opportunities.



**Water Information Availability:** Data and information on the quality and quantity of available water can improve opportunities for water reuse.



**Finance Support:** Improved understanding of water reuse finance options can enable water reuse projects.



**Integrated Research:** Enhanced coordination of past and future water reuse research can optimize its value, better identify critical gaps, and speed delivery to users.



**Outreach and Communications:** A critical aspect of implementing a successful water reuse program across applications is public acceptance and user confidence.



**Workforce Development:** Water reuse is driving a new generation of treatment technologies, monitoring, and operations and maintenance needs that, in general, exceed existing workforce capabilities.



**Metrics for Success:** Setting goals and accountability for implementation of the actions in the WRAP can help ensure progress and results.



**International Collaboration:** Many international partners have substantial experience and demonstrated success with water reuse practices while other countries may benefit from the work begun under the WRAP.



*Water is the medium by which many communities experience climate stress, and reuse can help make our systems more resilient to its impacts."*

—Benita Best-Wong  
EPA's Deputy Assistant Administrator for Water



Photo credits (left to right): Bob Nichols, San Francisco Public Utilities Commission, Tucson Water, Upper Occoquan Service Authority; (below) City of San Diego, California

## Water Reuse Objectives

- **Water security:** The capacity of a population to safeguard sustainable access to adequate quantities of acceptable quality water for sustaining livelihoods, human well-being, and socioeconomic development.
- **Water sustainability:** Ensuring an adequate, reliable, and continual supply of clean water for human uses and ecosystems.
- **Water resilience:** The ability of a community's water supply or system to respond to the effects of climate change or a natural disaster.

## Benefits of the WRAP Collaborative

- **Fosters connections** among a diverse, growing network of experts, policymakers, and practitioners.
- **Taps into knowledge** across the United States and internationally.
- **Aligns efforts** and leverages resources to accelerate progress.
- **Addresses challenges** and fills knowledge gaps.
- **Highlights success** and facilitates broad information sharing.
- **Supports integrated approaches** to water management and challenges "stovepiping" in the water sector.

## Join the Effort

- **Stay in the loop.** Join the WRAP listserv for periodic updates by emailing [waterreuse@epa.gov](mailto:waterreuse@epa.gov).
- **Learn about actions.** Find details on each action, including their outputs, in the [WRAP Online Platform](#).
- **Support an active action.** Reach out to action leader(s) about possible roles through the contact information provided in the WRAP Online Platform.
- **Provide input on proposed actions.** To address identified needs and knowledge gaps related to water reuse, proposed actions are introduced in each [WRAP Quarterly Update](#). The public is encouraged to provide feedback by emailing [waterreuse@epa.gov](mailto:waterreuse@epa.gov).
- **Propose a new action.** Ideas for new actions can be shared at any time. For information about how to propose an action, visit the lifecycle of a WRAP action [webpage](#).

## Online Platform

- Serves as a repository for all WRAP actions.
- Identifies leaders and partners, implementation milestones, and target completion dates for active actions.
- Illustrates and communicates ongoing activity.
- Provides a forum to highlight collaboration and success.

Visit: <https://www.epa.gov/waterreuse/national-water-reuse-action-plan-online-platform>



Together,  
we can  
help ensure  
the security,  
sustainability, and  
resilience of our  
most precious  
resource:  
WATER.

## WRAP AND REUSE RESOURCES

**Water reuse and recycling:** <https://www.epa.gov/waterreuse>

**Action activities and highlights:** <https://www.epa.gov/waterreuse/wrap-action-activities-and-highlights>

**WRAP first year update on collaborative progress:**

<https://www.epa.gov/waterreuse/national-water-reuse-action-plan-update-collaborative-progress>