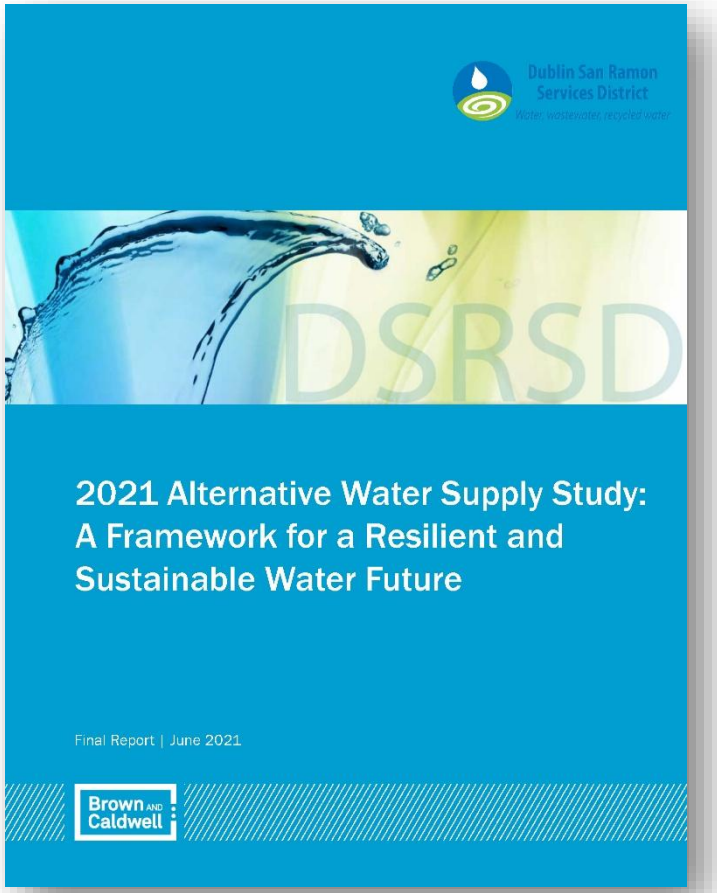
Dublin San Ramon Services District
Water, wastewater, recycled water

Regional Purified Water Pilot Project Phase 2 Results

Zone 7 Water Agency / Dublin San Ramon Services District Liaison Committee Meeting

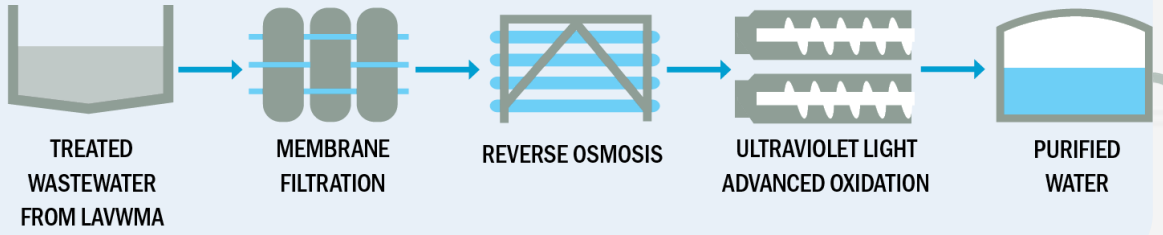
June 3, 2026

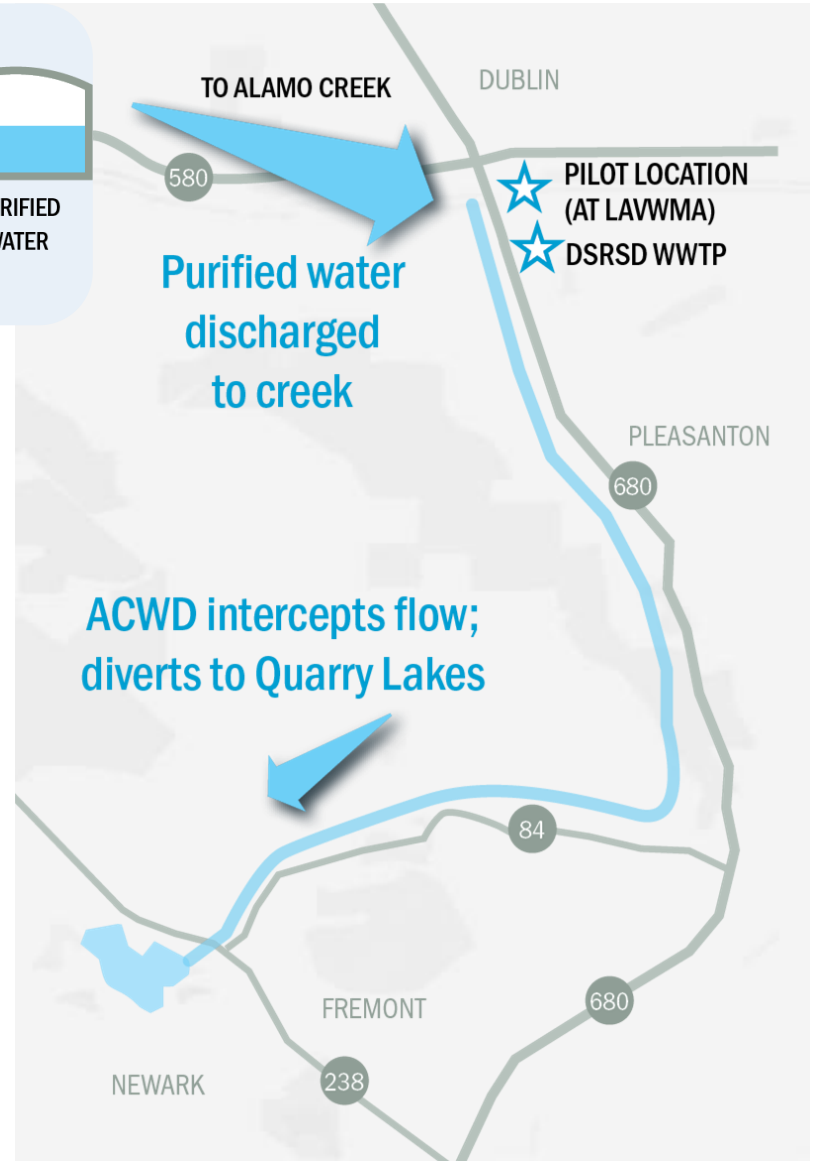
Pilot Background



- Purified water is one of multiple water supply options being explored to improve long-term water resiliency for the region
- In 2021, DSRSD completed a study that recommended developing a purified water pilot project in partnership with Alameda County Water District and other key stakeholders

Small, temporary advanced treatment system at LAVWMA:





Pilot project would…

- Produce up to 0.2 mgd of purified water from secondary effluent currently discharged to SF Bay
- Deliver purified water to supplement flow in Alameda Creek
- Allow ACWD to divert flow downstream for groundwater recharge

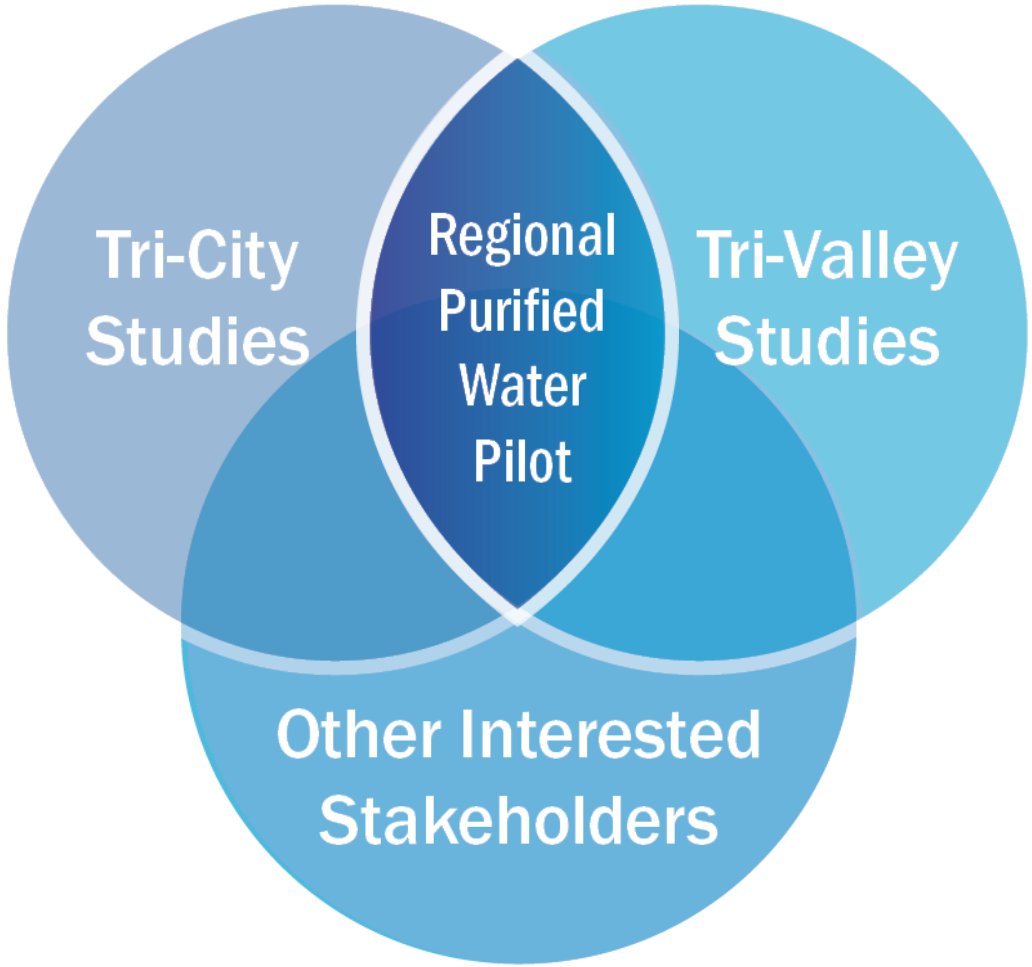
Benefits of Pilot Project and Similar Systems

- Public outreach and education
- Demonstrates purified water technology
- Data collection
- Promotes regional collaboration
- Leverages existing infrastructure

Ventura, CA


Xylem MiPro containerized O3/BAF and UV AOP system

Pilot Complements Other Regional Efforts



Potential pilot project partners:

ACWD Alameda County Water District

Livermore California

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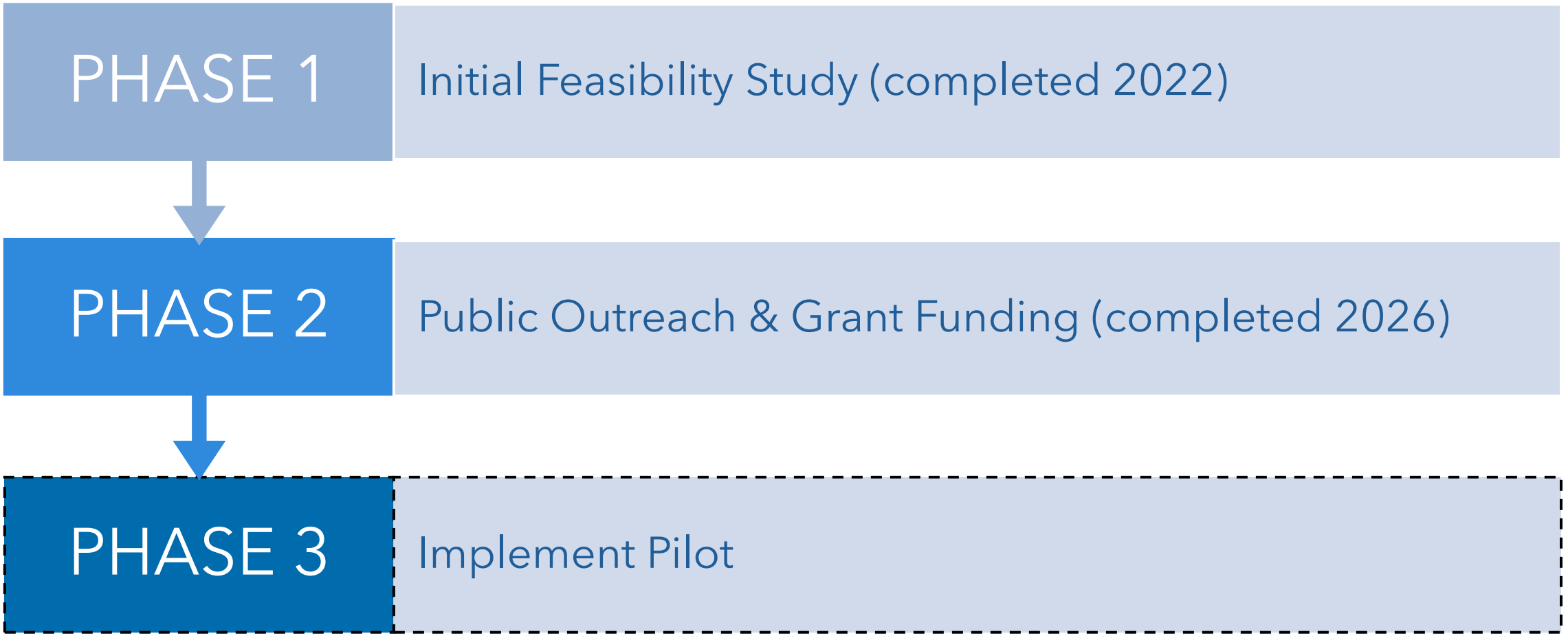
LAVWMA Water Resource Recovery

USD Union Sanitary District

Zone 7 Water Agency

Phased Approach



Phase 2 Overview

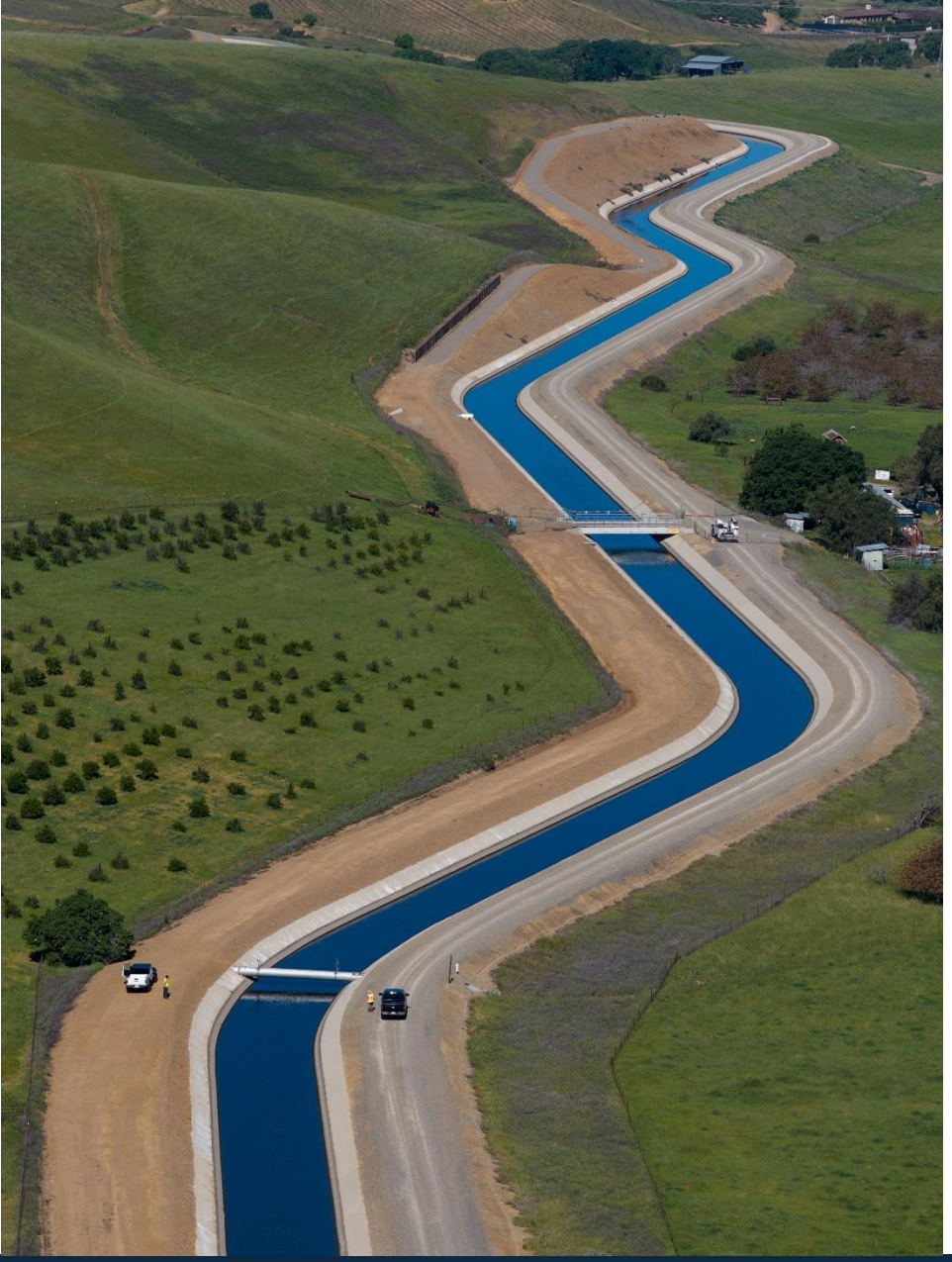
- **September 2024:** Kickoff Meeting with Data Instincts
- **March 2025:** In-Depth Interviews Conducted
- **June 2025:** Outreach Toolkit Developed
- **July 2025:** Strategic Outreach Plan Finalized

In-Depth Interviews

- **Purpose:** Gain deeper understanding of outreach needs from agency leaders
- **12 Interviews:** Two staff members or elected representatives from each agency

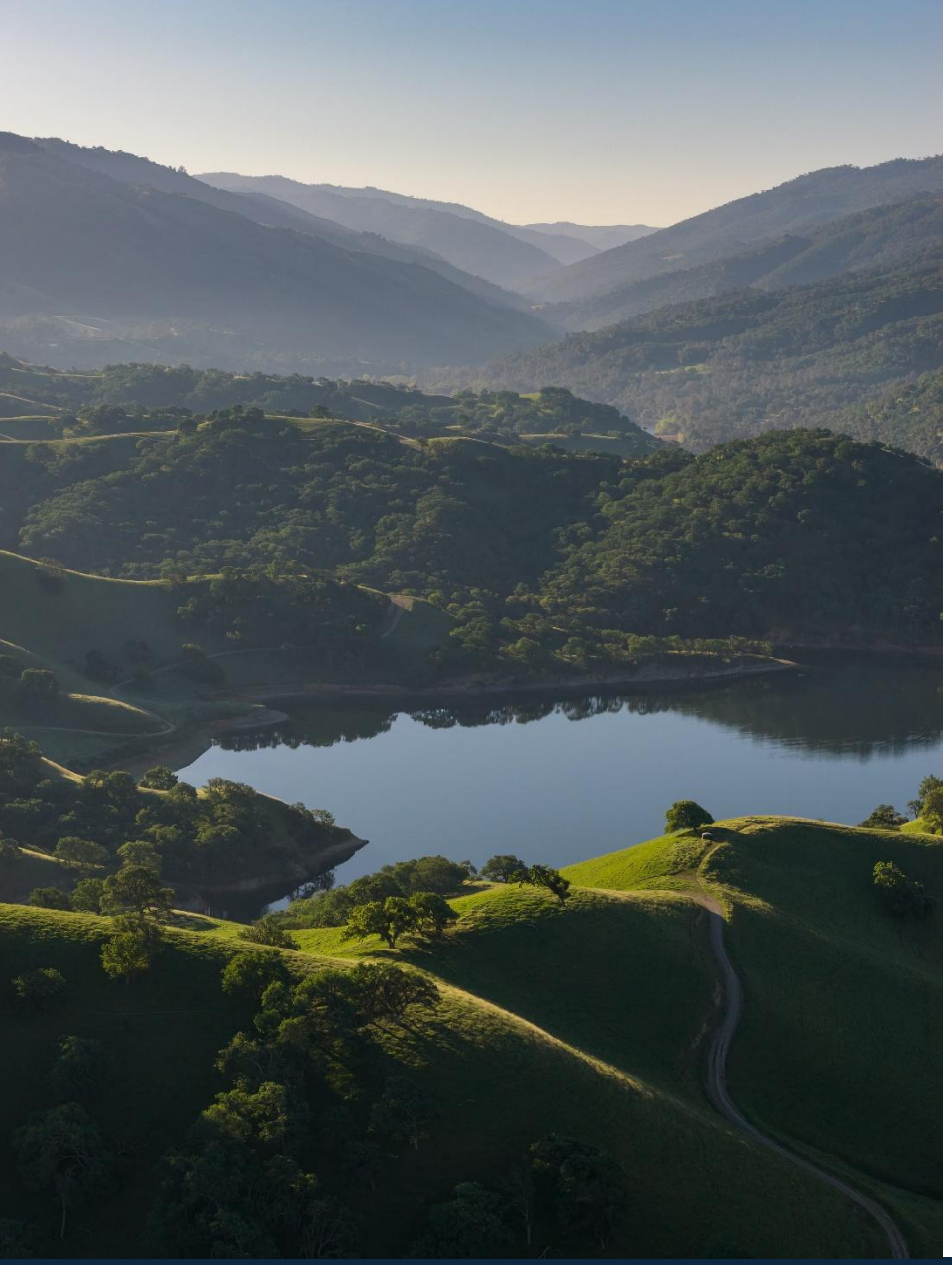
Regional Water Supply

- **All** Tri-Valley/Tri-City leaders are confident in our water supplies in the near term.
- **All** leaders expressed concern about long-term water supplies.
- **Half** of leaders are concerned about upcoming wastewater regulations.



Future Water Supply Options

- **All** leaders agreed that customers would be more open to indirect over direct potable reuse.
- **2/3** of leaders could see purified water as a potential future water supply option.
- **Majority** of leaders favored pursuing other supply options over potable reuse.

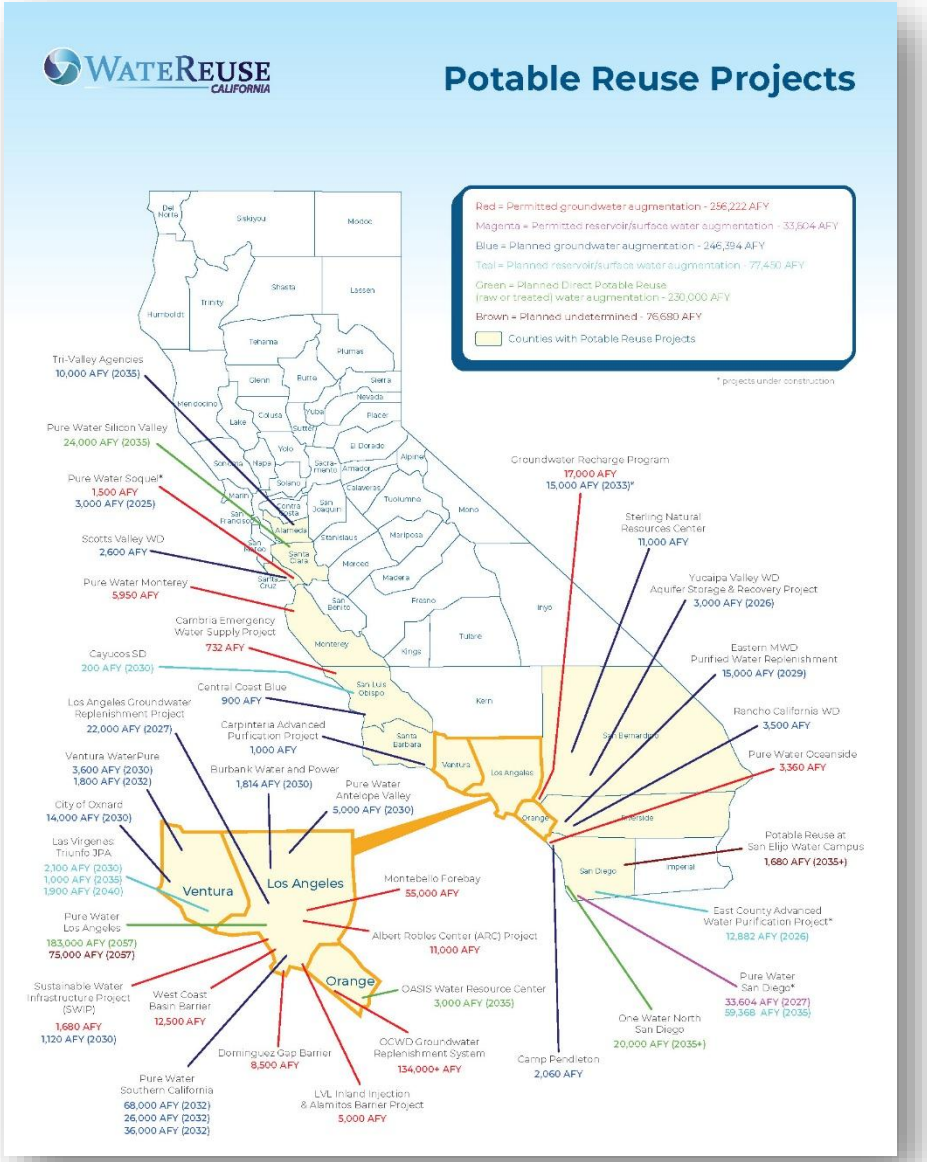


Outreach & Communications

- **Most** leaders are unsure if purified water would receive customer support due to:
  - Cost
  - Public perception
  - Lack of understanding of treatment process
- **More than 60%** of leaders believe their communities are not aware of regional water supply issues

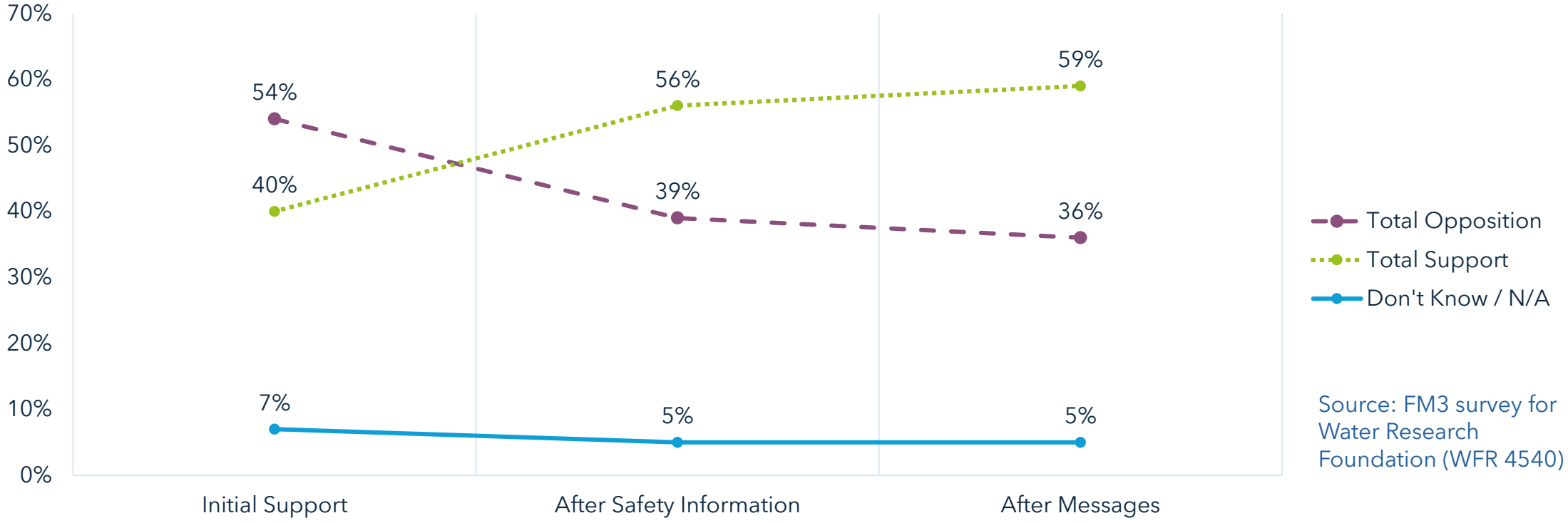
Post-Interview Takeaways

- **Region not ready for a pilot project** – lack of agreement on need for purified water; concern over cost, "yuck" factor, CECs (including PFAS and microplastics)
- **Focus on early education and information** for internal and external stakeholders



Customers become more comfortable with safety information and messaging

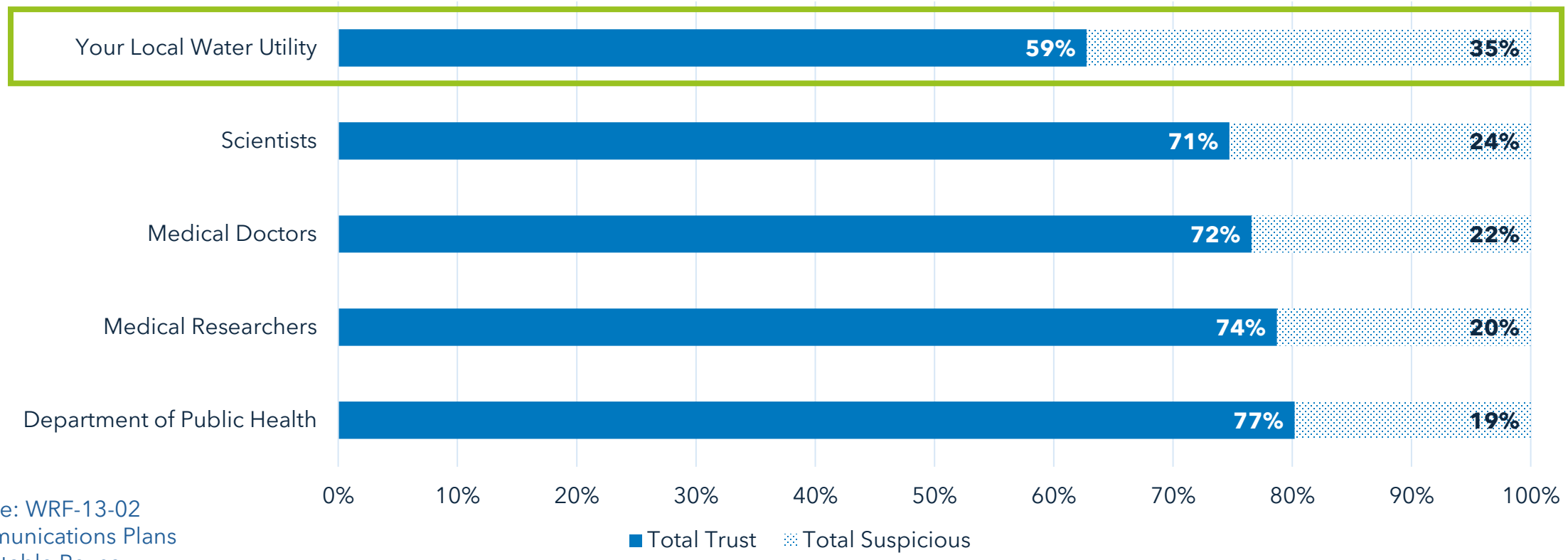
Do you support or oppose direct reuse of recycled water in your community for all household purposes, including drinking?



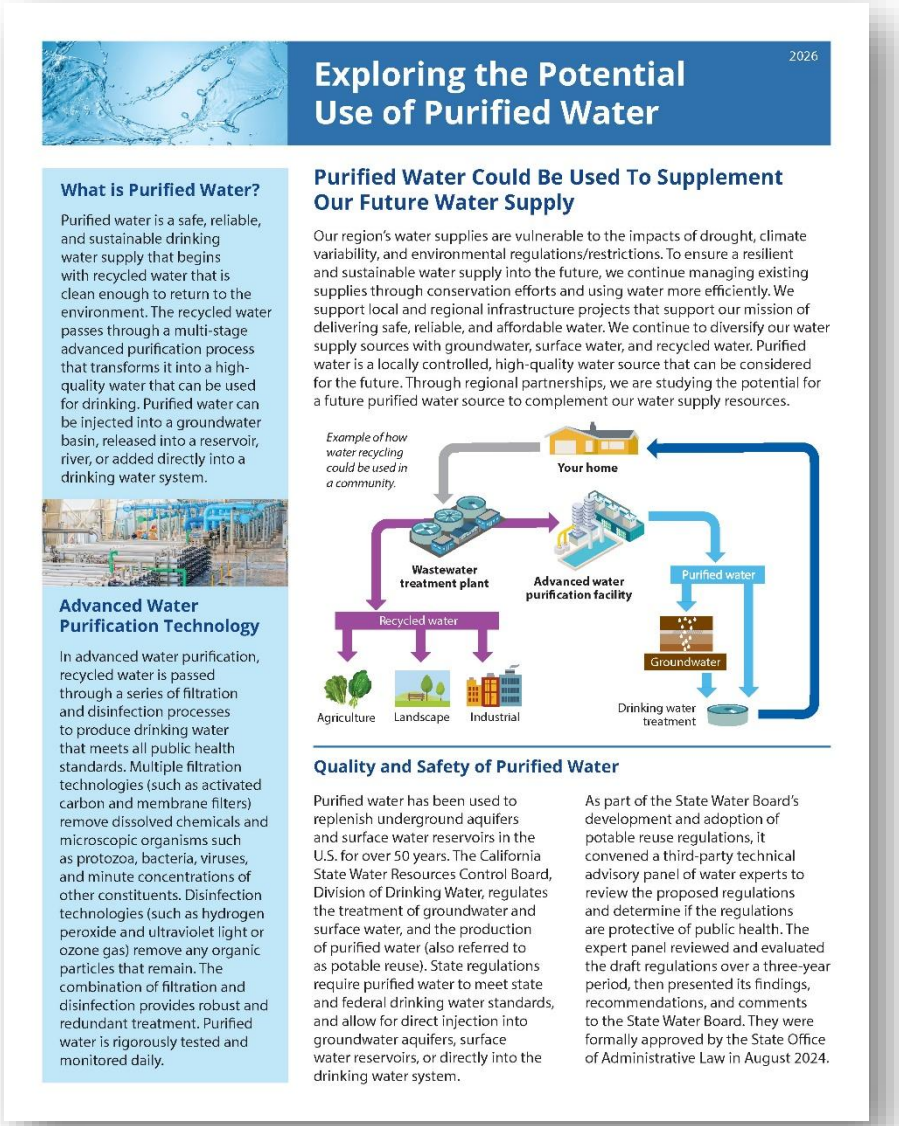
Source: FM3 survey for Water Research Foundation (WFR 4540)

Messenger Impact on Support

I am going to read you a list of people and organizations that may provide information about recycled water. Please tell me if you would generally trust that person's or organization's opinion on this issue, or if you would be suspicious of it.



Source: WRF-13-02 Communications Plans for Potable Reuse



Exploring the Potential Use of Purified Water

2026

What is Purified Water?

Purified water is a safe, reliable, and sustainable drinking water supply that begins with recycled water that is clean enough to return to the environment. The recycled water passes through a multi-stage advanced purification process that transforms it into a high-quality water that can be used for drinking. Purified water can be injected into a groundwater basin, released into a reservoir, river, or added directly into a drinking water system.

Advanced Water Purification Technology

In advanced water purification, recycled water is passed through a series of filtration and disinfection processes to produce drinking water that meets all public health standards. Multiple filtration technologies (such as activated carbon and membrane filters) remove dissolved chemicals and microscopic organisms such as protozoa, bacteria, viruses, and minute concentrations of other constituents. Disinfection technologies (such as hydrogen peroxide and ultraviolet light or ozone gas) remove any organic particles that remain. The combination of filtration and disinfection provides robust and redundant treatment. Purified water is rigorously tested and monitored daily.

Purified Water Could Be Used To Supplement Our Future Water Supply

Our region's water supplies are vulnerable to the impacts of drought, climate variability, and environmental regulations/restrictions. To ensure a resilient and sustainable water supply into the future, we continue managing existing supplies through conservation efforts and using water more efficiently. We support local and regional infrastructure projects that support our mission of delivering safe, reliable, and affordable water. We continue to diversify our water supply sources with groundwater, surface water, and recycled water. Purified water is a locally controlled, high-quality water source that can be considered for the future. Through regional partnerships, we are studying the potential for a future purified water source to complement our water supply resources.

Example of how water recycling could be used in a community.

Your home
Wastewater treatment plant
Advanced water purification facility
Purified water
Recycled water
Groundwater
Agriculture
Landscape
Industrial
Drinking water treatment

Quality and Safety of Purified Water

Purified water has been used to replenish underground aquifers and surface water reservoirs in the U.S. for over 50 years. The California State Water Resources Control Board, Division of Drinking Water, regulates the treatment of groundwater and surface water, and the production of purified water (also referred to as potable reuse). State regulations require purified water to meet state and federal drinking water standards, and allow for direct injection into groundwater aquifers, surface water reservoirs, or directly into the drinking water system.

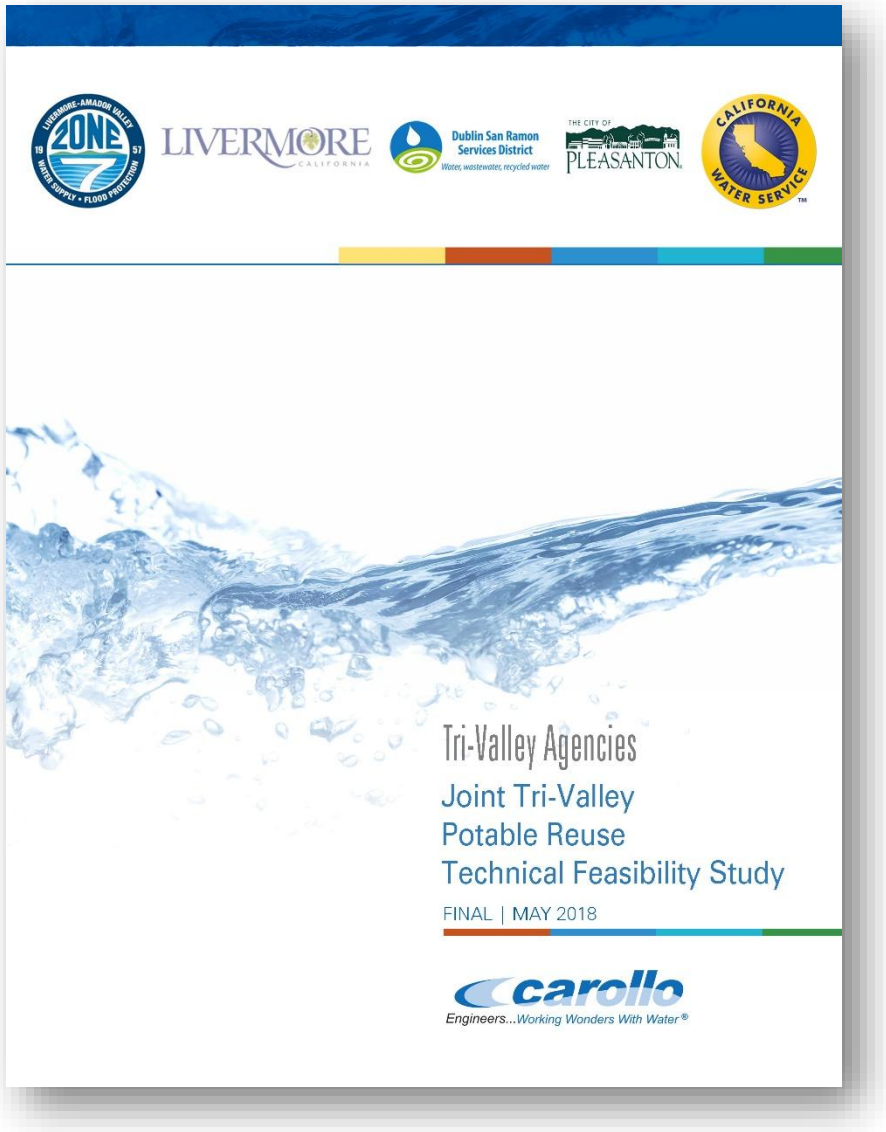
As part of the State Water Board's development and adoption of potable reuse regulations, it convened a third-party technical advisory panel of water experts to review the proposed regulations and determine if the regulations are protective of public health. The expert panel reviewed and evaluated the draft regulations over a three-year period, then presented its findings, recommendations, and comments to the State Water Board. They were formally approved by the State Office of Administrative Law in August 2024.

Potable Reuse Outreach Toolkit & Outreach Plan

- Interview responses informed creation of a Potable Reuse Outreach Toolkit & Strategic Outreach Plan
- Strategic Plan includes tactics for exploratory & implementation phases

Study Recommendations/ Next Steps

- Update the 2018 Tri-Valley Potable Reuse Study
- Expand awareness of water supply challenges and options
- Continue to collaborate with other Bay Area agencies planning or considering purified water
- Build common understanding of water reuse types and water purification technology



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Questions?