

CalVal Overview



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Background

National Water Research Institute (NWRI) is leading an important initiative, CalVal, which will develop Uniform Guidance Documents to support California water utilities that are seeking permits for new potable reuse projects.

- A collaboration between regulators and the water reuse industry
- An initiative to develop Standard Guidance for IPR treatment technologies in California
- An opportunity to gain clarity with regulators on design, operation, and reporting requirements of well-established unit processes

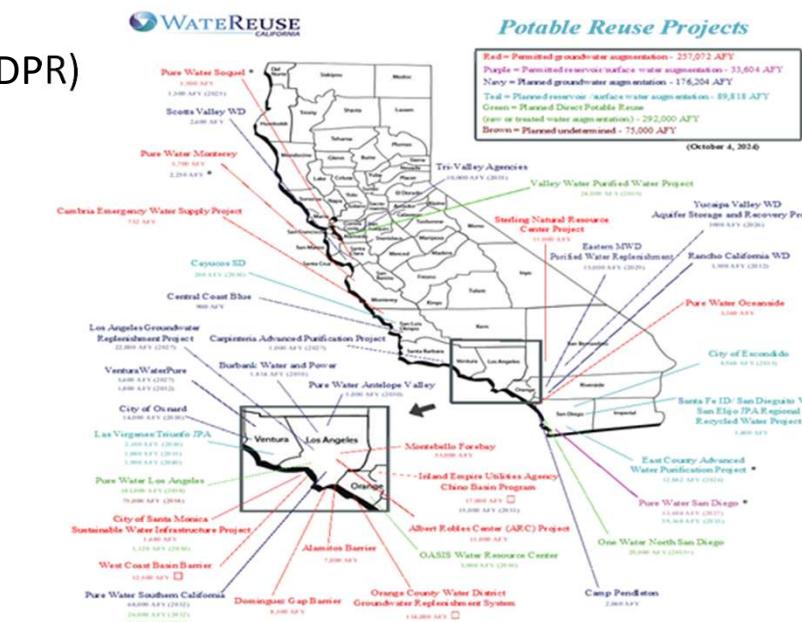


Visit the CalVal website for details about this important initiative that will benefit all Californians!



Driving Factors

- Increased Number of Water Resuse Projects (IPR and DPR)
 - More than 40 reuse projects in varying stages of approval (Planned, permitted, and operational)
- CA Water Recycling Goals
 - 800,000 AF by 2030
 - 1.8 million AF by 2040
- Regulatory Benefit
 - Establishing consistent approaches for well-established treatment processes
 - maximizing limited staff time during the review process by DDW



CalVal Objectives

- Survey current IPR practices to identify gaps and research needs.
- Define consistent permitting, validation, and compliance requirements.
- Streamline reviews, strengthen industry confidence, and support future DPR Standard Guidance.



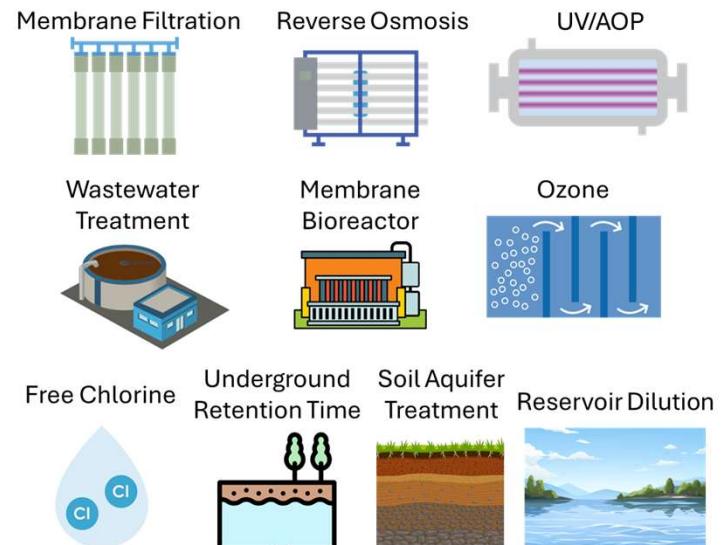
CalVal Overview and Status

Phase 1: Completed

- Define Challenges
- Review Literature
- Engage Stakeholders
- Identify Research Gaps
- Prioritize IPR Unit Processes

Phase 2: 2025 – 2030

- Big Lift – Research, Guidance & Regulatory Approval
- Investment of ~\$15M over 5 Years
- Supports Entire Potable Reuse Industry
- Funding Needed to Complete

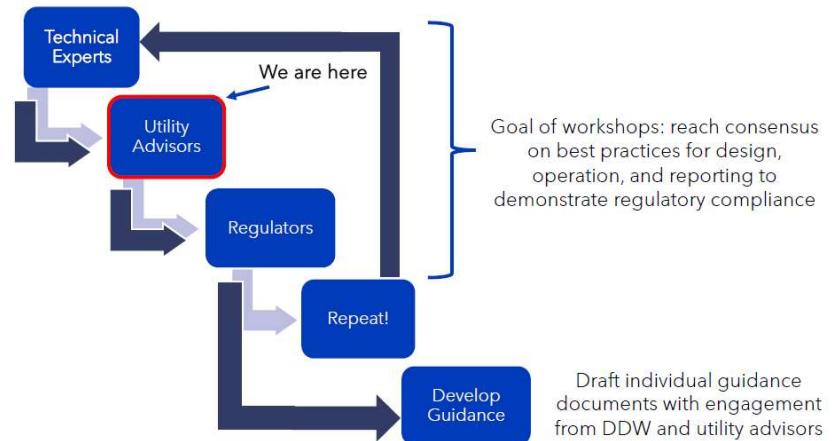


CalVal
"Design, Operate, and Report with Confidence"

CalVal - A Collaborative Approach

Key Benefits:

- Faster permitting through uniform guidance
- Clear, science-based standards for MF, RO, and UV/AOP
- Direct role in shaping future DPR facility requirements
- Early DDW alignment on expectations
- Access best practices from 13+ CA IPR projects
- Collaborate with LADWP, OCWD, and other leaders
- Builds pathway to DPR by late 2027



Deliverables: 3 Guidance Modules, 12+ Expert Workshops and WaterVal Peer Review

CalVal Funding Support

Partnership Benefits

- Influence validation criteria before they govern your projects
- Reduce permitting delays and operational risk
- Support both IPR and future DPR frameworks

Who Should Join?

- Engineering Consultants
- Utilities
- Contractors
- Technology Providers

Contact

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Organizations that have made transformative contributions exceeding \$1 million to fund CalVal Phase 2 and beyond



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QUESTIONS

