



Pure Water Los Angeles Program Update

October 3, 2025

El Segundo Environmental Committee

Agenda

Background

- ✓ Water Supply
- ✓ Wastewater System
- ✓ Recycled Water

Program Introduction: Strategic Planning

- ✓ Vision & Mission
- ✓ Goals
- ✓ Potable Reuse Strategy

Program Details

- ✓ Implementation Phases
- ✓ Current Projects
- ✓ Treatment and Conveyance Strategies

Next Steps



Water Supply Sources

Historical Imports

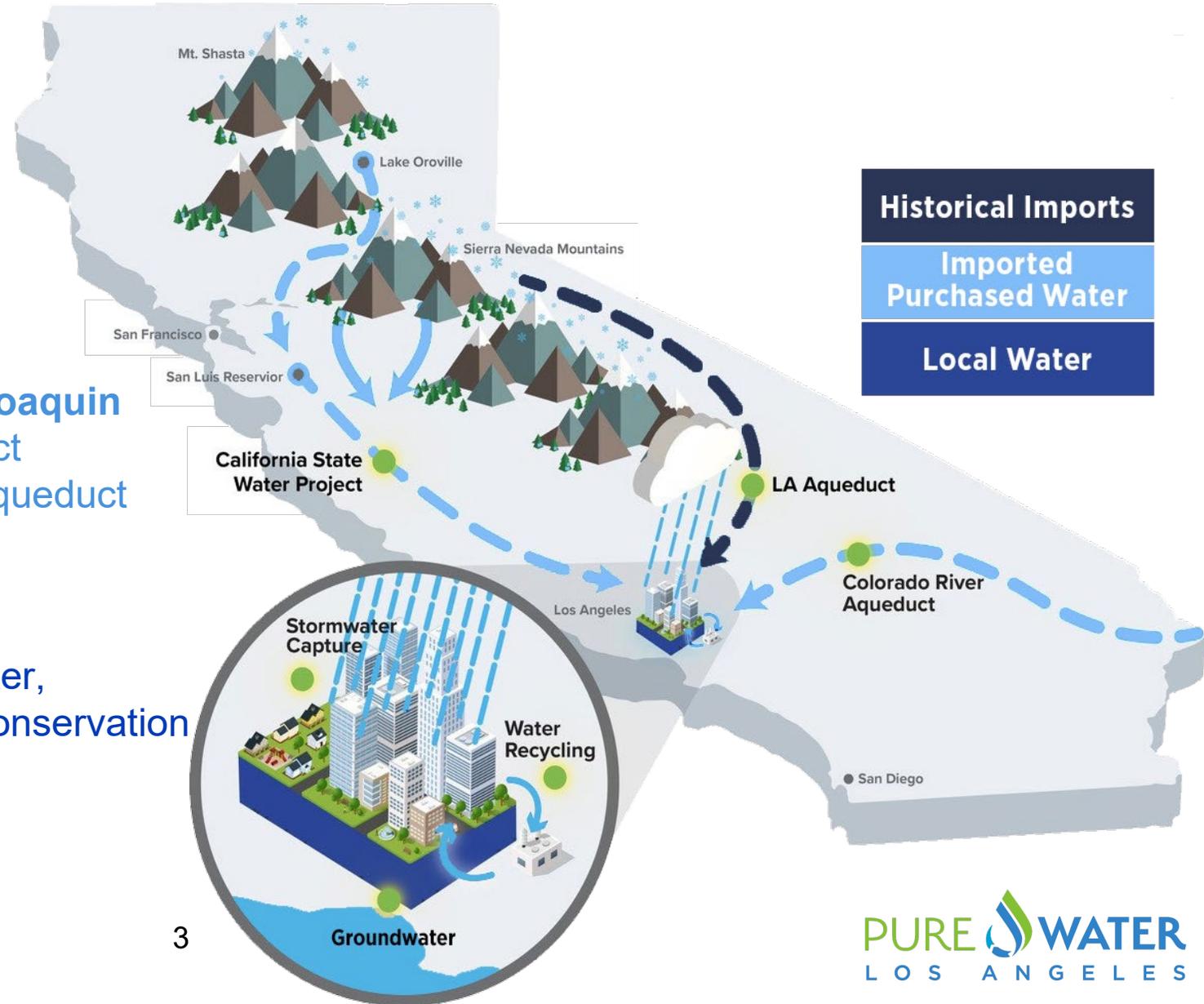
- Eastern Sierras via the Los Angeles Aqueduct

Imported Purchased Water

- Northern Sierra and Sacramento-San Joaquin Delta via the California State Water Project
- Colorado River via the Colorado River Aqueduct

Local Water

- Local Water Supplies including groundwater, recycled water, stormwater capture and conservation



Increasing Local Water Supplies



The Pure Water Los Angeles program aims to provide purified recycled water from LASAN's Hyperion Water Reclamation Plant by using advanced treatment and purification processes, which will create a new, sustainable water resource that will diversify the supply for L.A. and the region.



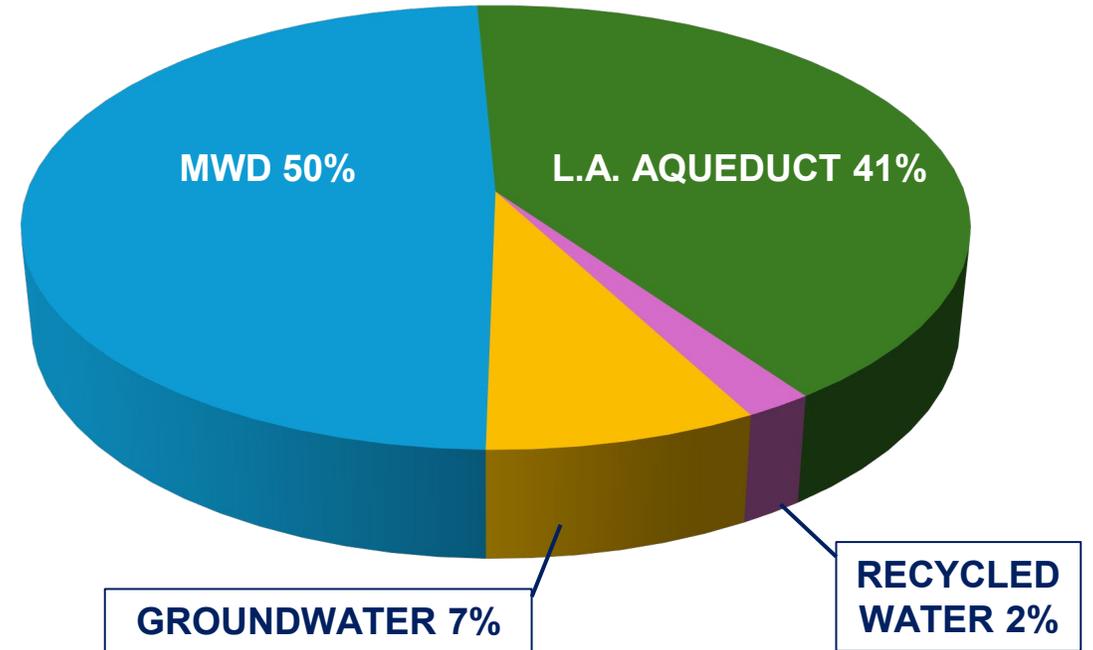
LADWP is forecasting over 70 additional stormwater projects over the next 15 years to double its capacity.



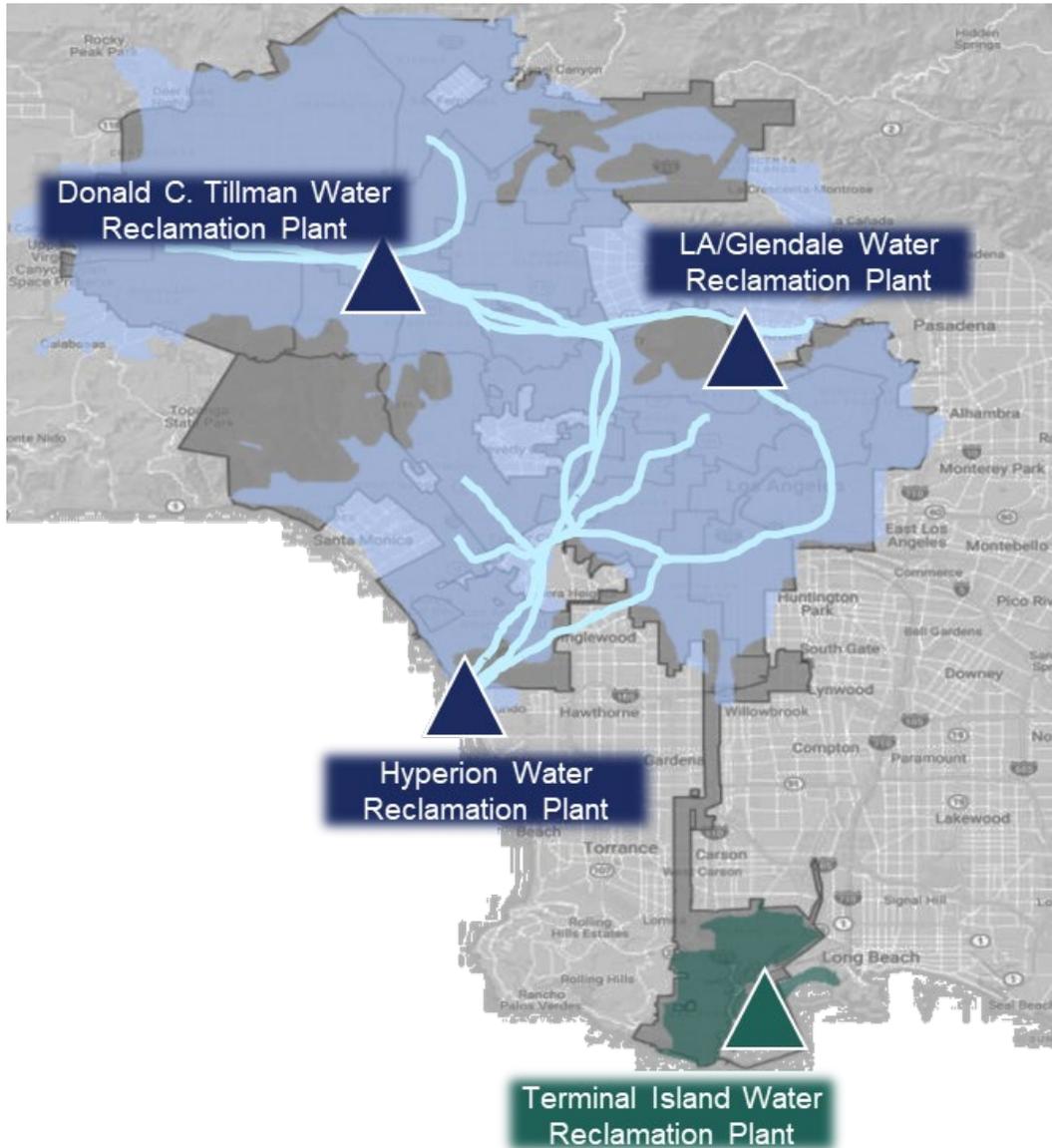
LADWP is remediating the San Fernando Valley Basin, which restores the capacity of the San Fernando Basin as a drinking water source and groundwater storage.

WATER SUPPLY SOURCES

(5-year average, FY 2020-2024)



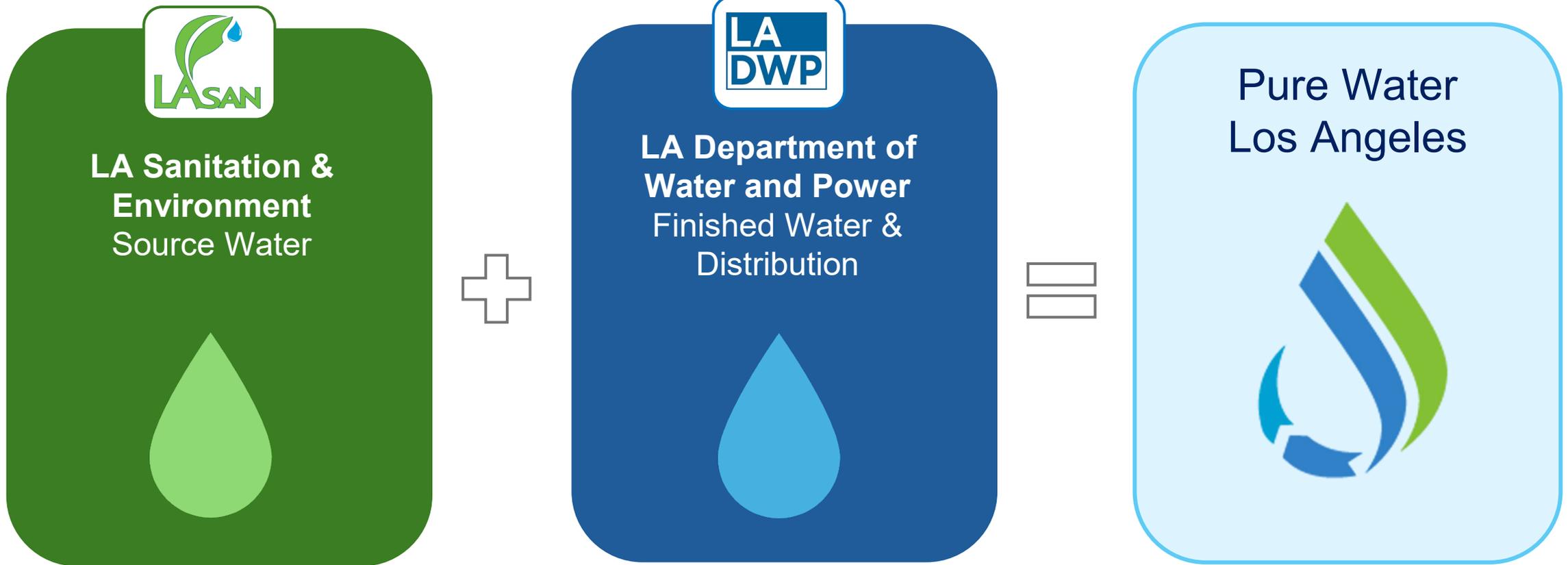
Wastewater System Overview



- 4.7 million people
- 600 square miles
- 29 contract agencies
- 6,700 miles of sewers
- Hyperion Water Reclamation Plant treats an average of 270 million gallons per day

Two Departments Deliver One Major City Initiative

Objective: Diversify Los Angeles' water supply portfolio by developing & maximizing Hyperion WRP effluent as a sustainable local water supply to mitigate future climate change & seismic risks.



Pure Water Los Angeles

Vision

Increase and optimize the City's local supplies and support the transition to seventy percent local water by maximizing the production of purified recycled water as part of a diversified water portfolio in an affordable manner to mitigate risk from climate change and ensure an equitable and resilient future for the region.

Mission

Partner across the region to build and operate a world-class advanced recycled water system to replenish local groundwater basins and support the future direct potable reuse applications.

PURE WATER LOS ANGELES



GOALS

- 

GOAL 1 Maximize Wastewater Reuse at Hyperion WRP
- 

GOAL 2 Construct/Upgrade Cost-Effective Infrastructure
- 

GOAL 3 Diversity LA's Water Supply Portfolio
- 

GOAL 4 Resiliency, Reliability, and Sustainability
- 

GOAL 5 Enhance Ecosystem Health
- 

GOAL 6 Community & Equity Benefits

STRATEGY

IPR:
 Replenishment of local groundwater basins
(Approved in 2014)

DPR:
 Introduction of purified water upstream of Water Treatment Plant

(Approved in 2023)

Construction and Implementation Phases

at Hyperion Water Reclamation Plant

- Phase 1 (50 MGD): Foundational infrastructure and initial water production
- Phase 2 (50 MGD): Expansion of treatment, increased water production
- Phase 3 (up to 130 MGD): Complete build out, maximization of water production



Current Projects at Hyperion Play Critical Role



Hyperion Advanced Water Purification Facility

- Proof of Concept
- Construction completed
- Water production anticipated Oct/Nov 2025

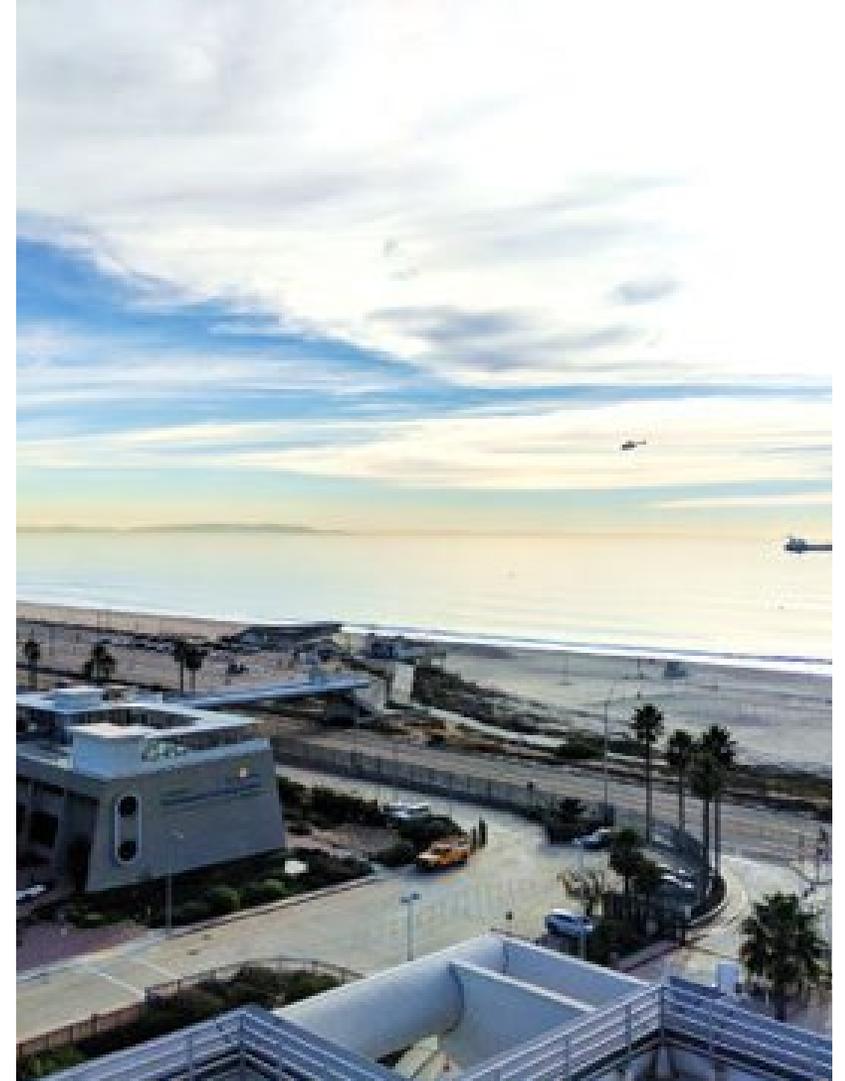


Membrane Bioreactor Pilot Facility

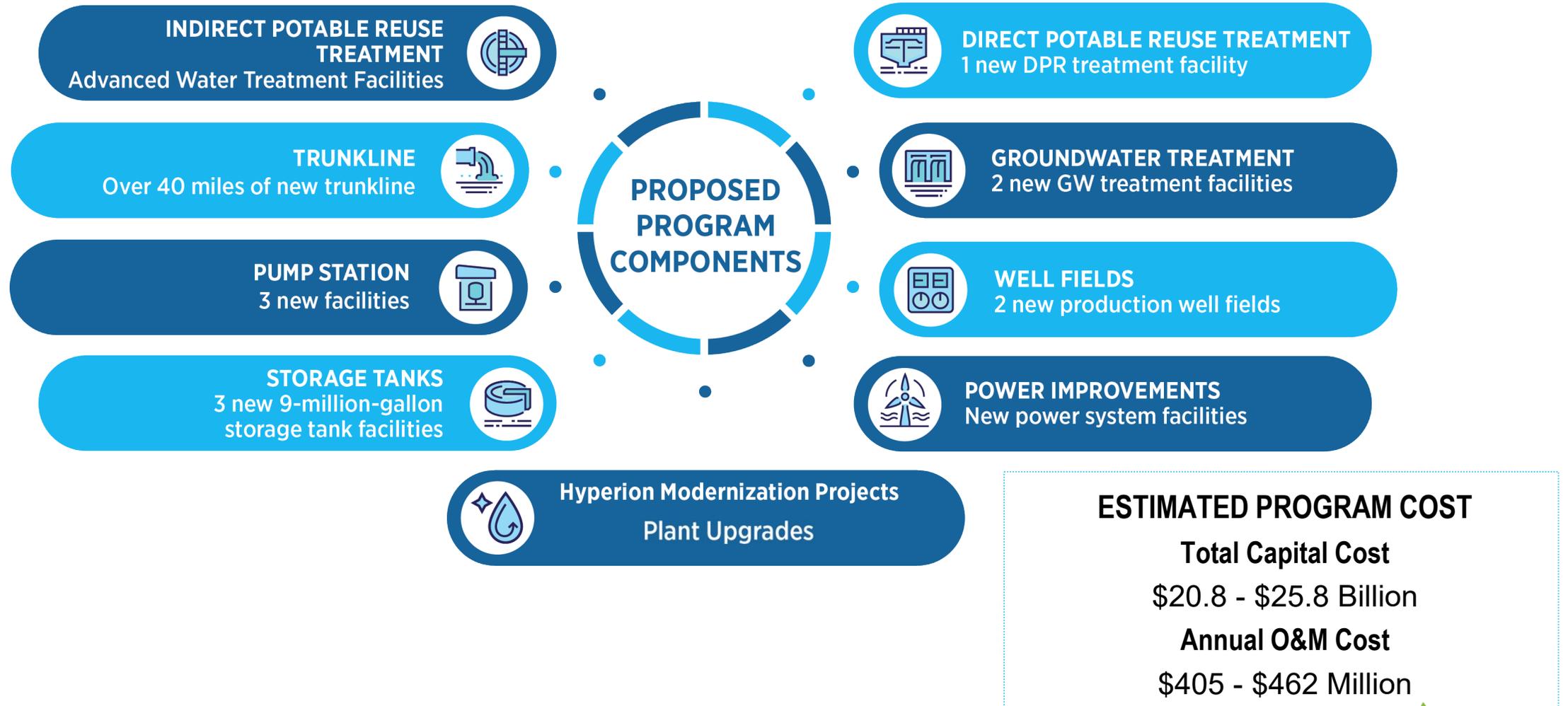
- Regulatory acceptance and research
- Construction completed
- Testing to begin early 2026

Benefits from Implementation of MBR

- Environmental Benefit for Santa Monica Bay
- Use of Membrane Bioreactor (MBR), provides two major benefits:
 - Cleaner water for subsequent purification
 - Significant reduction of pollutants discharged
 - Nitrogen 86%
 - Solids 79%
 - Biochemical Oxygen Demand 96%



Projected Capital Improvements & Estimated Cost



Program Benefits



EQUITY

invests in communities



CLIMATE JUSTICE

safeguards the availability of water for all Angelenos



ENVIRONMENTAL

protects the Santa Monica Bay



WORKFORCE DEVELOPMENT

generates good paying sustaining jobs



ECONOMIC

maximizes cost-effective production



TRANSPARENCY

ensures stakeholders are well-informed



PARTNERSHIPS

leverages regional participation

Program Going Forward



Preliminary program planning MP & PIP
completed



Programmatic EIR is next (2026)



Program refinements and decisions are yet to come (partnerships, funding, route studies, research, permits)



Public Engagement and Community Involvement will be **continuous**

Documents available:

www.purewaterlosangeles.com

Request tours and presentations:

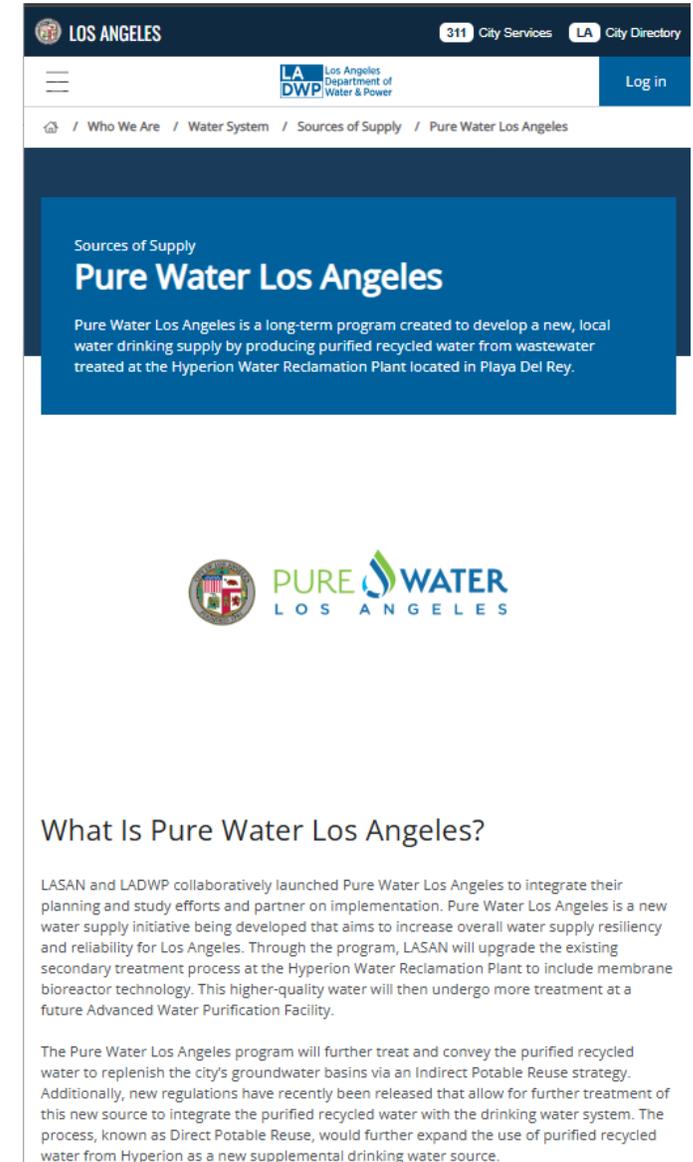
PureWaterLosAngeles@ladwp.com

Additional upcoming efforts:

- Equity Engagement
- Regional Partnerships
- Hydraulic Analysis & Route Study
- Program funding assessment
- Design of Hyperion Phase 1A
- Real Estate Procurement
- Research, Piloting & Training
- Permitting Coordination

Outreach Resources & Program Website

- Master Plan by LADWP
- Program Implementation Plan by LASAN
- An Introduction to the Master Plan and the Program Implementation Plan
- Program Factsheet
- Program Presentation
- www.purewaterlosangeles.com
- Email: PureWaterLosAngeles@ladwp.com



LOS ANGELES 311 City Services LA City Directory

Los Angeles Department of Water & Power Log in

Who We Are / Water System / Sources of Supply / Pure Water Los Angeles

Sources of Supply
Pure Water Los Angeles

Pure Water Los Angeles is a long-term program created to develop a new, local water drinking supply by producing purified recycled water from wastewater treated at the Hyperion Water Reclamation Plant located in Playa Del Rey.

 **PURE WATER**
LOS ANGELES

What Is Pure Water Los Angeles?

LASAN and LADWP collaboratively launched Pure Water Los Angeles to integrate their planning and study efforts and partner on implementation. Pure Water Los Angeles is a new water supply initiative being developed that aims to increase overall water supply resiliency and reliability for Los Angeles. Through the program, LASAN will upgrade the existing secondary treatment process at the Hyperion Water Reclamation Plant to include membrane bioreactor technology. This higher-quality water will then undergo more treatment at a future Advanced Water Purification Facility.

The Pure Water Los Angeles program will further treat and convey the purified recycled water to replenish the city's groundwater basins via an Indirect Potable Reuse strategy. Additionally, new regulations have recently been released that allow for further treatment of this new source to integrate the purified recycled water with the drinking water system. The process, known as Direct Potable Reuse, would further expand the use of purified recycled water from Hyperion as a new supplemental drinking water source.



Thank you!

www.purewaterlosangeles.com

Email: PureWaterLosAngeles@ladwp.com