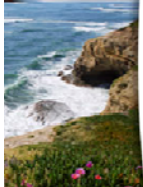




THE CITY OF SAN DIEGO



Pure Water

SAN DIEGO





San Diego Water/Wastewater Facts



**Provide services to
8th largest US city
& surrounding
area**

**1.3M water &
2.5M wastewater
customers from
15 agencies**

**Regulated by
Federal & State
agencies**

**USEPA,
State Water
Resources
Control Board**

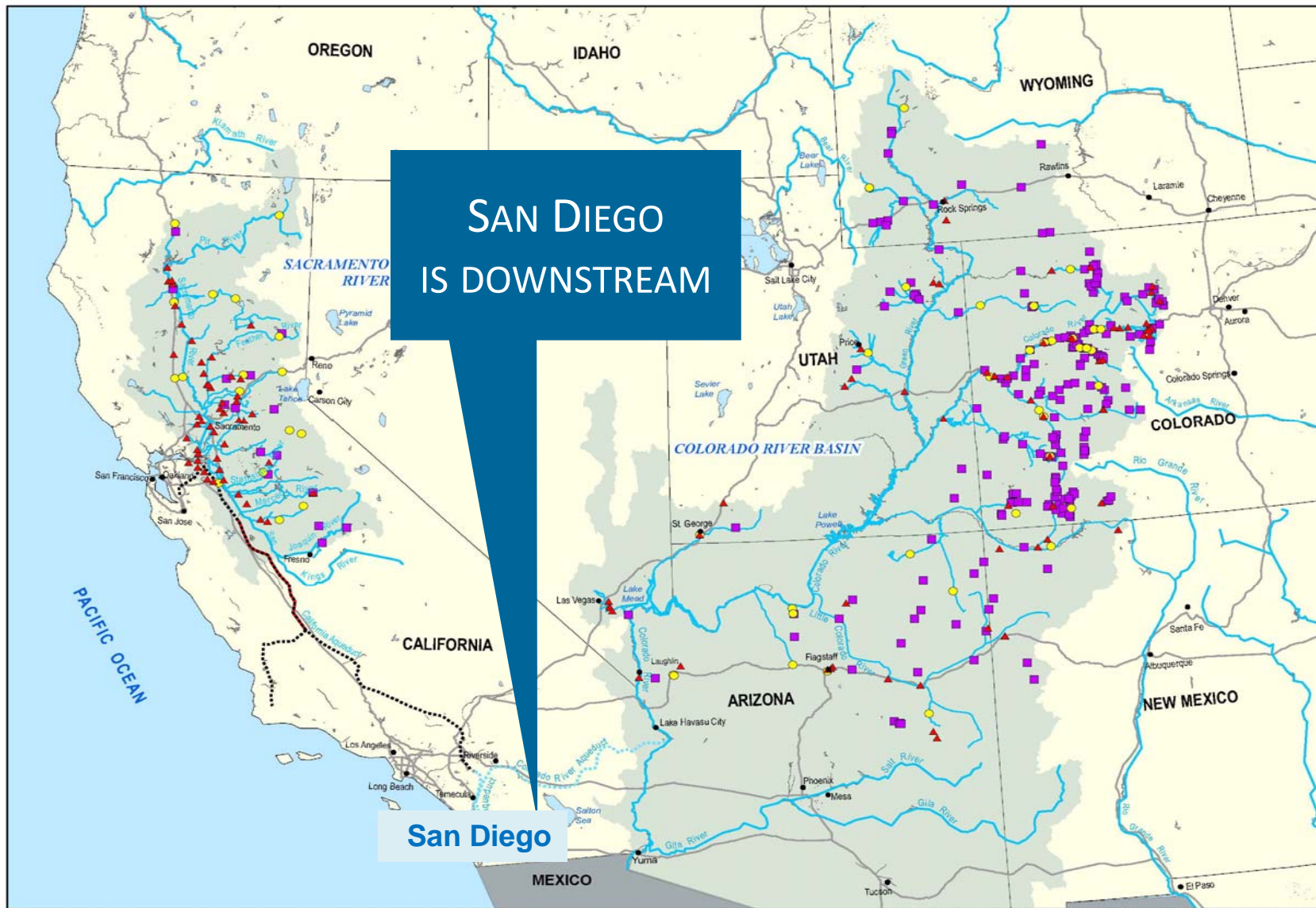
**~\$1B invested in
systems over last
5 years**

**More than
\$412M planned
capital projects
over next 2 years**

**Annual purchase
of imported
water (\$209M)
and facility
construction and
maintenance are
biggest costs**



85% of Our Water is Imported



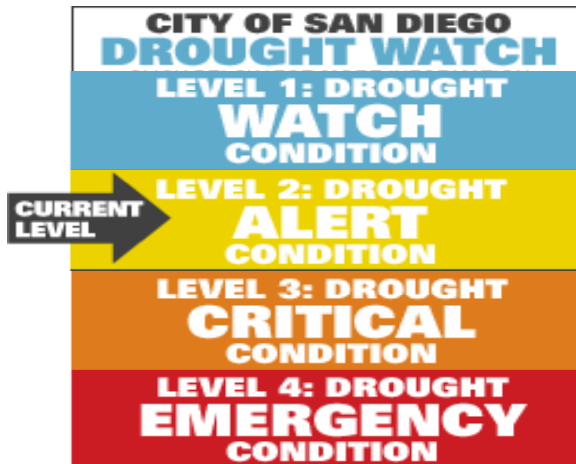
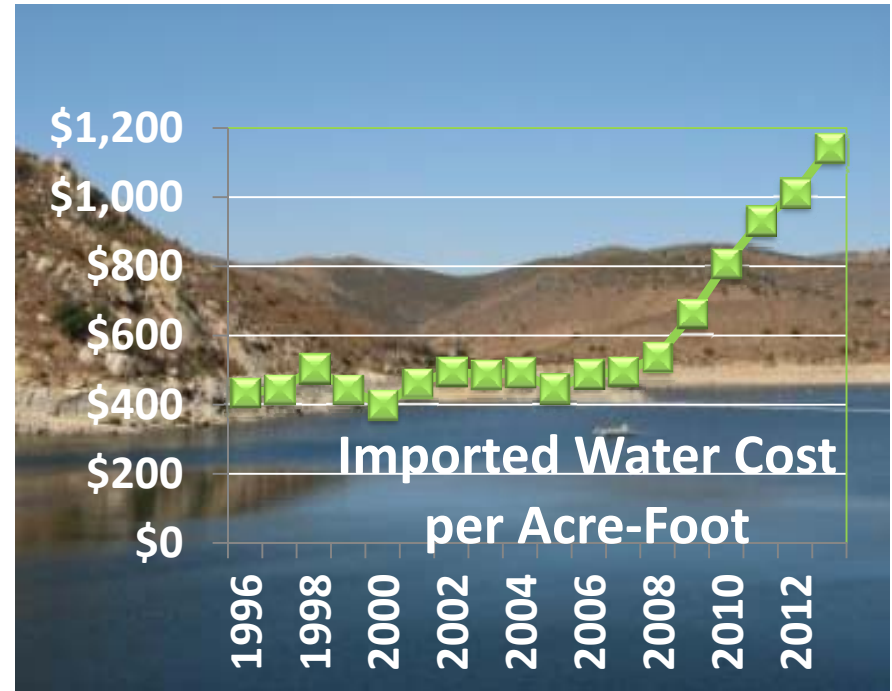
SAN DIEGO IS DOWNSTREAM

San Diego



Numerous Water Challenges

- Limited local & imported supplies
- Recurring drought
- Population growth
- Bay Delta constraints
- Natural disaster risk
- Rising imported water costs





What is Being Done?

Regional:

- Water Conservation
- Desalination (SDCWA)

City of San Diego:

- Water Conservation
- Groundwater Development
- Recycled Water
- Potable Reuse (Pure Water)





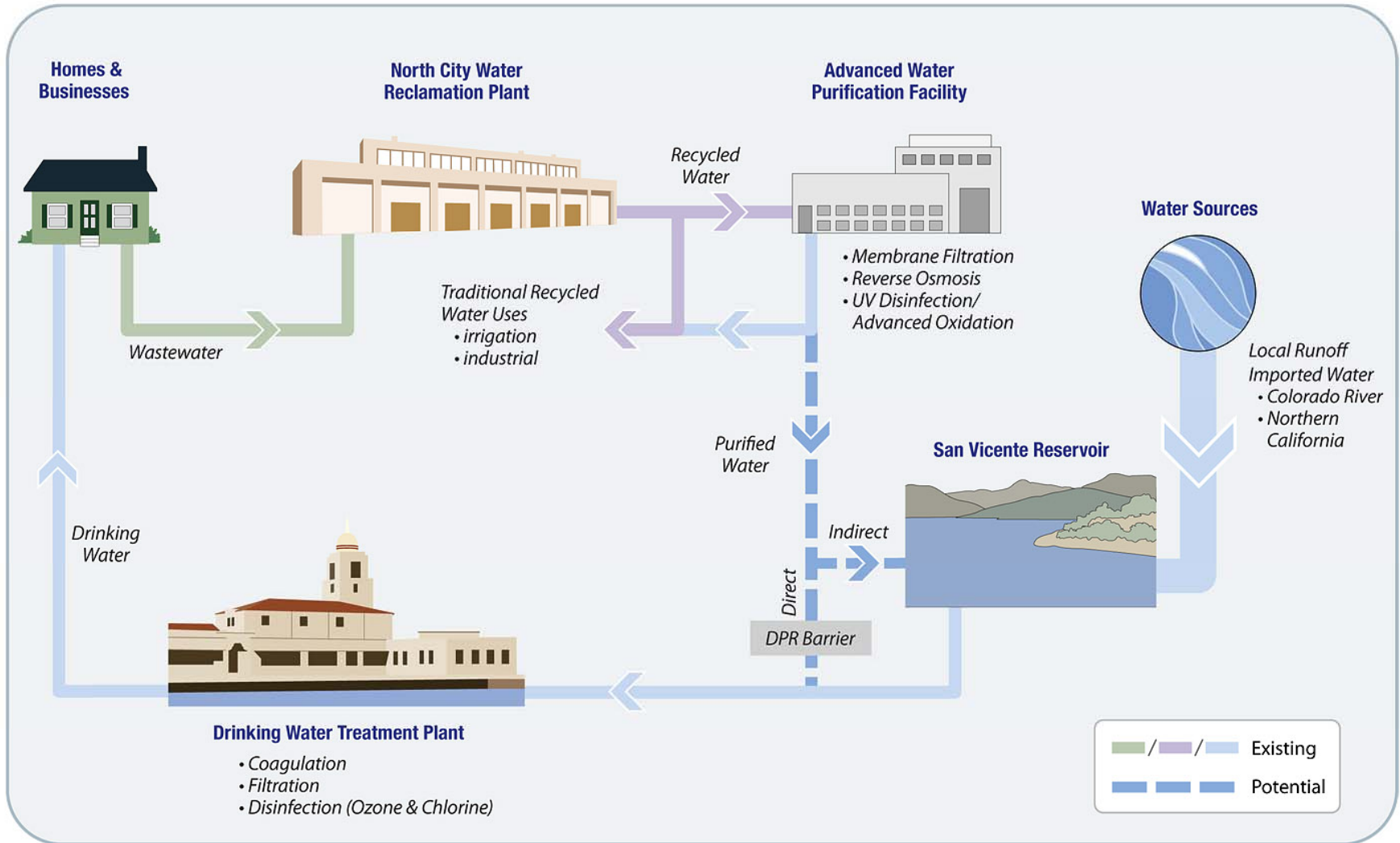
What is Pure Water San Diego?

- 20-year program to provide a safe, reliable and cost-effective drinking water supply for San Diego
- Uses proven water purification technology and is environmentally friendly
- Provides a locally controlled, drought-proof water supply
- Eliminates the need for expensive upgrades to the Point Loma Wastewater Treatment Plant





How Does This Process Work?





Pure Water San Diego Has Been Successfully Demonstrated

1 million gallon per day Demonstration Project

- Conducted 9,000 lab tests – Routinely met all standards
- Exceptional water quality – Comparable to distilled water
- Energy use is comparable to imported water and cost is approximately \$1,700 – 1,900 per acre-foot

Microfiltration & Ultrafiltration



Reverse Osmosis



Advanced Oxidation with UV Light & Hydrogen Peroxide





Independent Advisory Panel Verified



Experienced scientists & health professionals reviewed and evaluated research studies and treatment

[George Tchobanoglous, Ph.D., P.E., Chair](#)

Professor Emeritus, UC, Davis

[Richard Gersberg, Ph.D., Vice-Chair](#)

Interim Director, SDSU Graduate School of Public Health

Director, Coastal and Marine Institute, SDSU

[Michael A. Anderson, Ph.D.](#)

University of California, Riverside

[Sunny Jiang, Ph.D.](#)

University of California, Irvine

[Richard Bull, Ph.D.](#)

Consulting Toxicologist

MoBull Consulting (Richland, WA)

[Joseph A. Cotruvo, Ph.D.](#)

Principal

Joseph Cotruvo Associates (Washington, D.C.)

[Michael P. Wehner](#)

Director of Water Quality and Technology
Orange County Water District (Fountain Valley, CA)

[James Crook, Ph.D., P.E.](#)

Water Reuse Consultant (Boston, Massachusetts)

[David R. Schubert, Ph.D.](#)

The Salk Institute for Biological Studies

[Audrey D. Levine, Ph.D., P.E., DEE](#)

U.S. Environmental Protection Agency



Others Are Doing It Successfully

Orange County, CA



- Operating since 2008
- Places purified water into the groundwater basin
- Currently expanding its capacity

Fairfax, VA

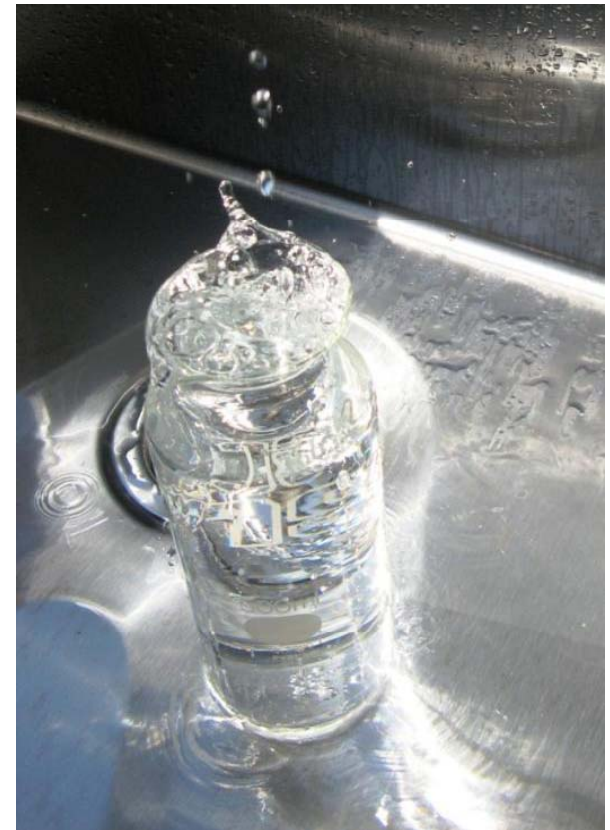


- Operating since 1978
- Recycled water is added to a surface storage reservoir
- Potable water supply source for Fairfax County, VA



State & Federal Regulators Are Supportive

- September 7, 2012, California Department of Public Health approves the San Vicente Reservoir Augmentation Concept
- February 12, 2013, the Regional Water Board supports the City's efforts to develop the San Vicente Reservoir Augmentation Project





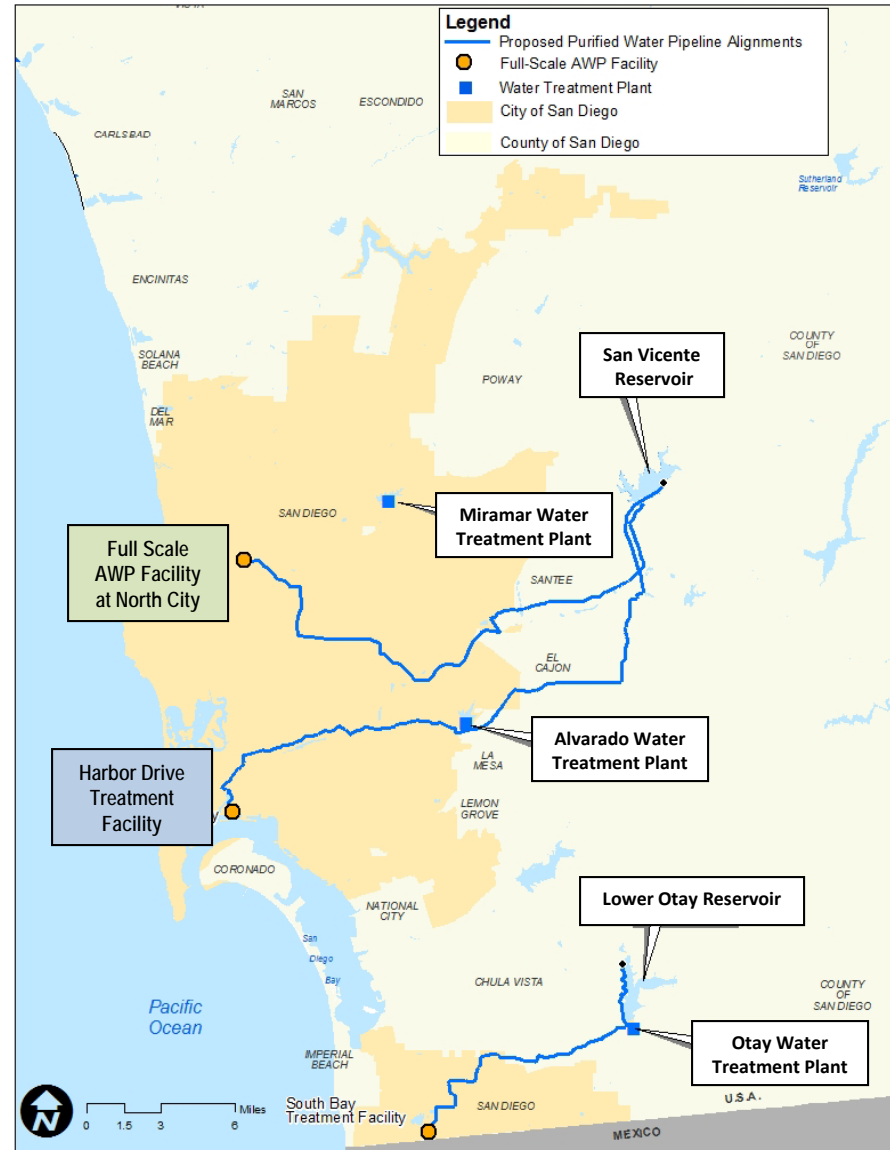
Developing Our Local Water Supply

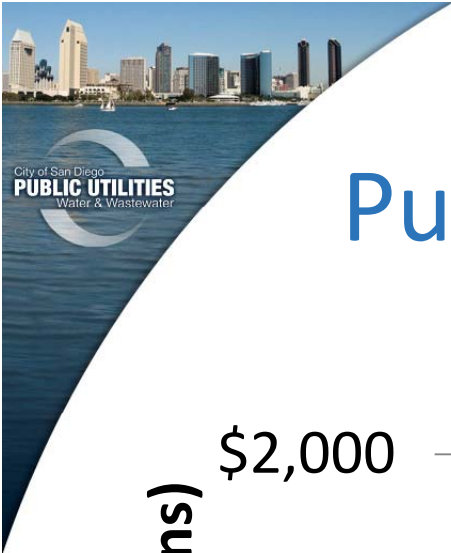
Initial phase
2023

15 MGD
Wastewater will be purified at North City Plant and delivered to San Vicente Reservoir

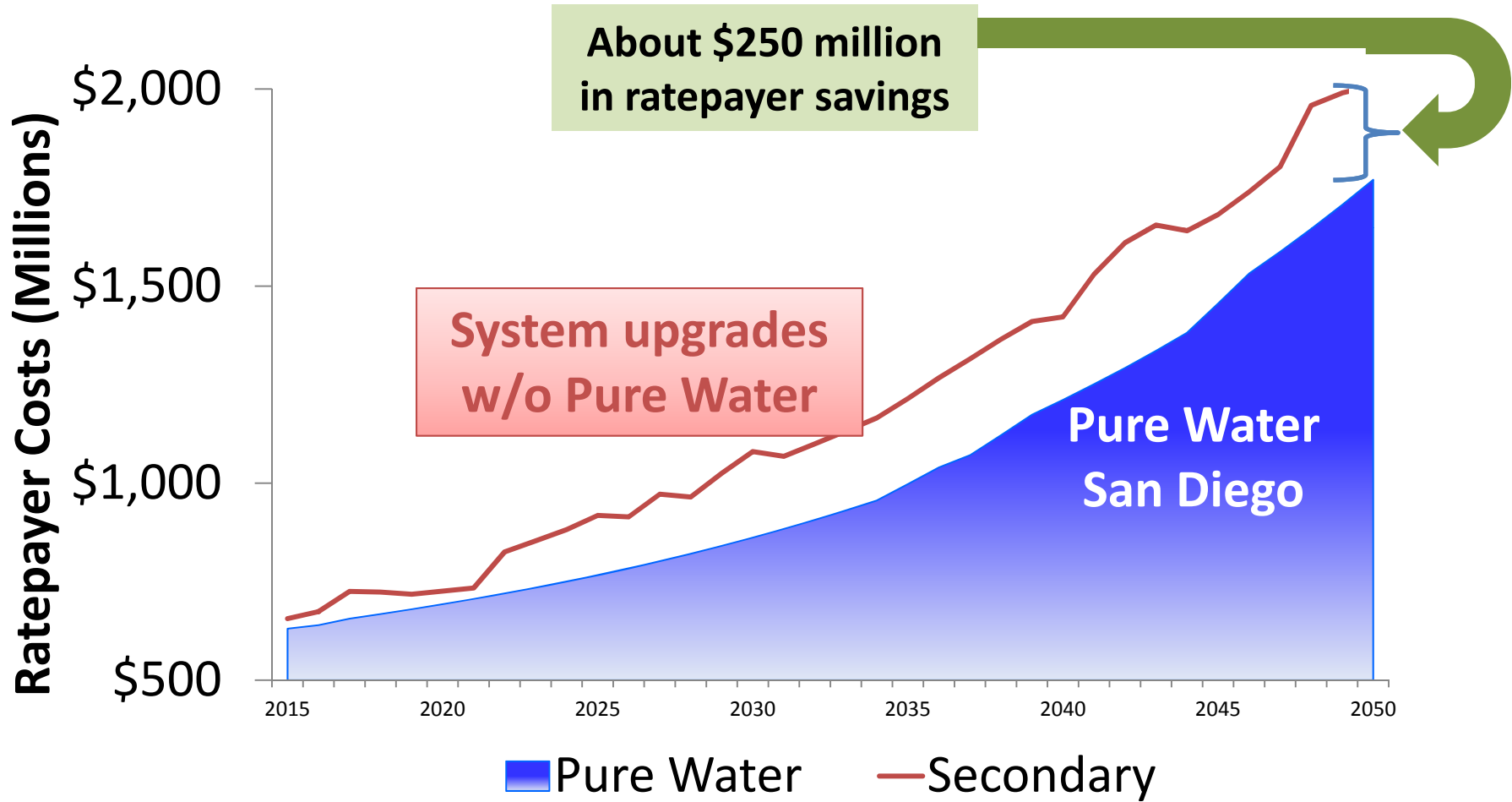
Long-term
2035

83 MGD
Wastewater will be purified at Harbor Drive Treatment Facility and South Bay Plant and delivered to San Vicente and Otay Reservoirs





Pure Water San Diego Saves Money





Who Supports Pure Water?

- Elected Officials
 - City Council Resolution, April 29, 2014
- Environmental Groups
- Wastewater Participating Agencies
- Professional Engineering Community
- Water Reliability Coalition
- Business Community
- Independent Rates Oversight Committee



Friends of Infrastructure



What Can I Do?

- Visit our website:
PureWaterSD.org
- Register for tours:
PureWaterSD.org/tours
- Join our mailing list or sign
a support card



Pure Water San Diego



@PureWaterSD

Watch us on



purewatersd



Please check all that apply:

- I support the Pure Water San Diego Program.
- I would like to receive updates about Pure Water San Diego.
- I would like a presentation given to my organization.

Please send information to:

Name: _____ Organization: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ E-mail: _____

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