

2022 WQCC Meeting:
Los Angeles Regional
Water Quality
Control Board
Update

Implementing California's Water
Supply Strategy and Accelerating
Climate Change Action
in the Los Angeles Region

Multi-pronged Approach to Climate Adaptation and Local Water Resiliency

- Advanced water treatment facilities and increased wastewater recycling for NPR, IPR and DPR
- Stormwater capture and beneficial use
- Targeted desalination & mitigation of seawater intrusion
- Other climate adaptations

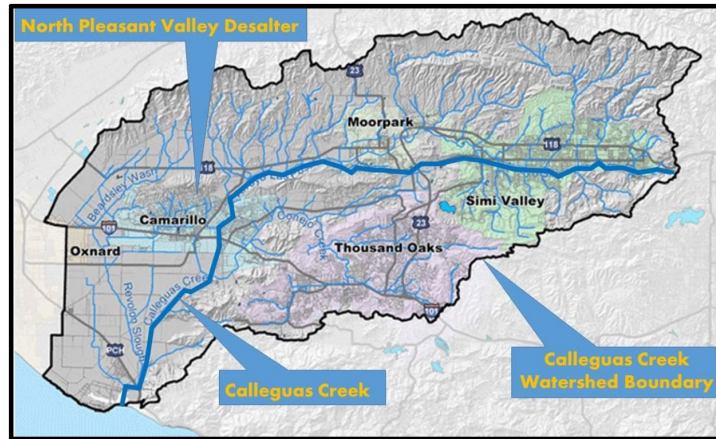


Water Recycling Projects (in development or expansion)

Facility	Production / Completion Date
Pure Water Project Las Virgenes-Triunfo (Tapia WRF/AWPF)	7.5 mgd (8.4k AFY) Completion: 2030
Ventura WRF – City of Ventura	6 mgd (6.7k AFY) Completion: 2030
Sustainable Water Infrastructure Project (SWIP) – City of Santa Monica	1.5 mgd (1.7k AFY) Completion: 2023
Oxnard WRP AWPF / GREAT program – City of Oxnard	8 mgd (9k AFY) Completion: currently permitted
Donald C. Tillman WRP – City of LA (LASAN & LADWP)	35 mgd (39k AFY) Completion: 2025
Hyperion 2035/Operation NEXT – City of LA (LASAN & LADWP)	217 mgd (243k AFY) Completion: 2035
Pure Water Southern California/JWPCP AWPF (LACSD & MWD)	150 mgd (168k AFY) Completion: 2032



Stormwater Capture and Beneficial Use Carriage Crest Park, Carson, CA/ Dominguez Channel Watershed



Salinity Management/Groundwater Desalination Calleguas Regional Salinity Management Pipeline & North Pleasant Valley Groundwater Desalter

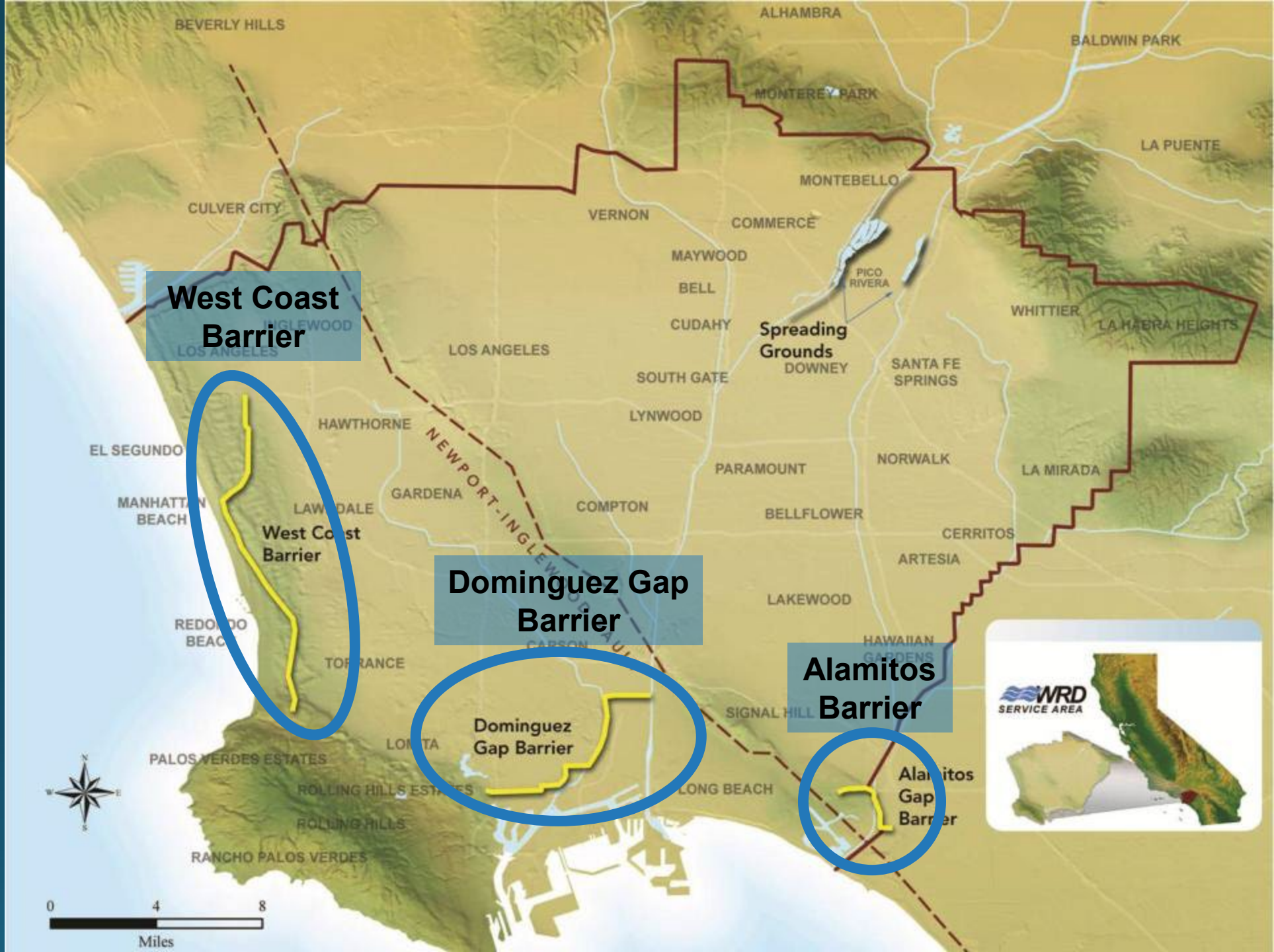
Salinity Management/ Ocean Desalination

SCE Pebbly Beach Desalination Plant, Catalina Island\

- Supplies 45-70% of potable water for island
- Drought resistant
- Recent NPDES permit renewal covers ~15% increase in freshwater production

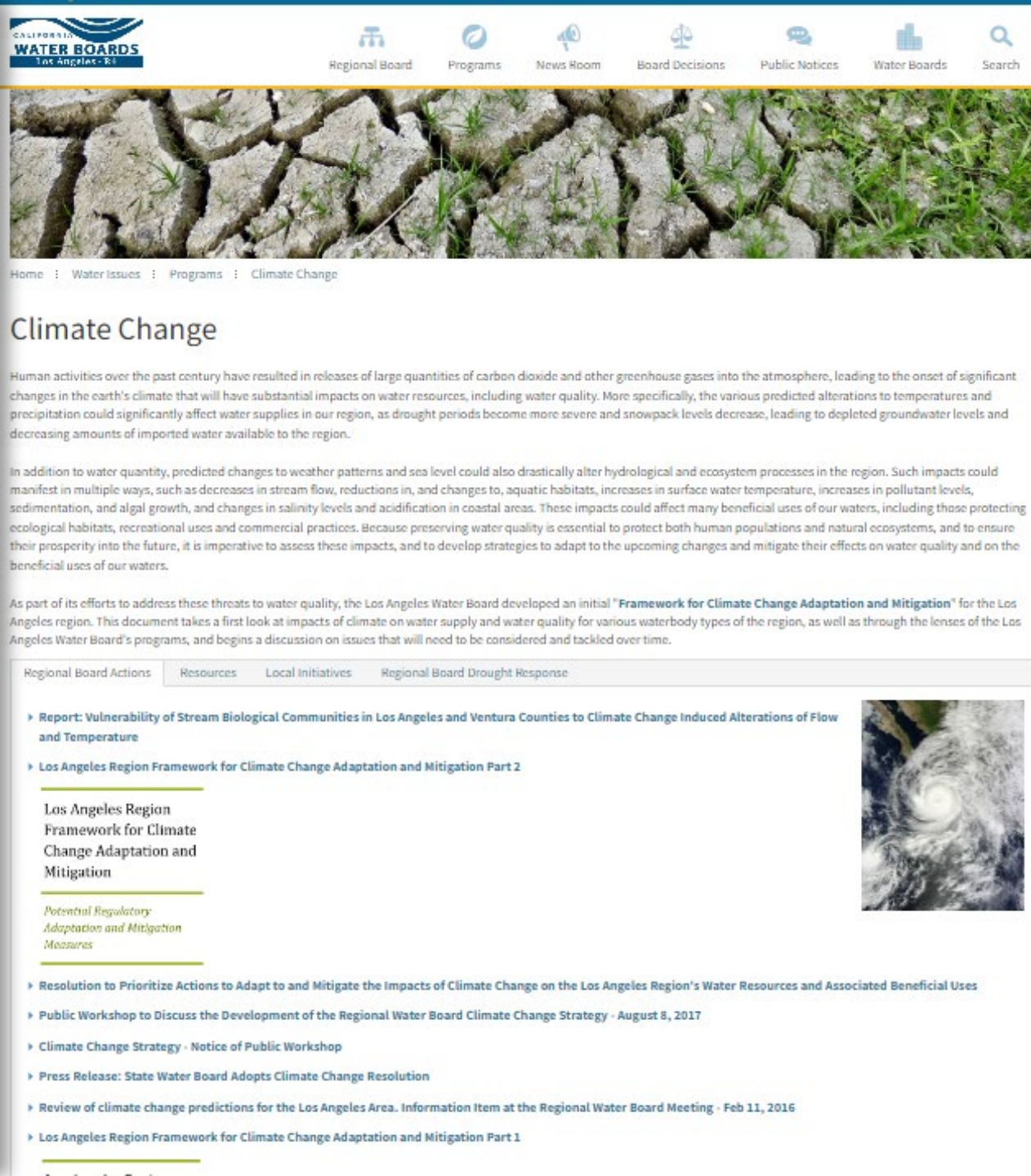


Mitigating Seawater Intrusion



Other Climate Adaptations

- Permitting Provisions for Climate Change
- Groundwater Remediation Strategies for Water Resilience
- Irrigation BMPs for Water Conservation & Water Quality



The screenshot shows the California Water Boards website for the Los Angeles region. The header includes the logo and navigation links for Regional Board, Programs, News Room, Board Decisions, Public Notices, Water Boards, and Search. A banner image shows cracked, dry earth with sparse green grass. Below the banner is a breadcrumb trail: Home > Water Issues > Programs > Climate Change. The main heading is "Climate Change". The text explains that human activities have led to greenhouse gas releases, affecting water resources. It also notes that predicted changes in weather and sea level could alter hydrological and ecosystem processes. A section titled "Framework for Climate Change Adaptation and Mitigation" is highlighted, with a sub-section for "Potential Regulatory Adaptation and Mitigation Measures". A list of recent actions and reports is provided, including a report on stream biological communities, a resolution to prioritize climate change actions, a public workshop on the climate change strategy, and a press release about the state water board's adoption of a climate change resolution.

Home : Water Issues : Programs : Climate Change

Climate Change

Human activities over the past century have resulted in releases of large quantities of carbon dioxide and other greenhouse gases into the atmosphere, leading to the onset of significant changes in the earth's climate that will have substantial impacts on water resources, including water quality. More specifically, the various predicted alterations to temperatures and precipitation could significantly affect water supplies in our region, as drought periods become more severe and snowpack levels decrease, leading to depleted groundwater levels and decreasing amounts of imported water available to the region.

In addition to water quantity, predicted changes to weather patterns and sea level could also drastically alter hydrological and ecosystem processes in the region. Such impacts could manifest in multiple ways, such as decreases in stream flow, reductions in, and changes to, aquatic habitats, increases in surface water temperature, increases in pollutant levels, sedimentation, and algal growth, and changes in salinity levels and acidification in coastal areas. These impacts could affect many beneficial uses of our waters, including those protecting ecological habitats, recreational uses and commercial practices. Because preserving water quality is essential to protect both human populations and natural ecosystems, and to ensure their prosperity into the future, it is imperative to assess these impacts, and to develop strategies to adapt to the upcoming changes and mitigate their effects on water quality and on the beneficial uses of our waters.

As part of its efforts to address these threats to water quality, the Los Angeles Water Board developed an initial "Framework for Climate Change Adaptation and Mitigation" for the Los Angeles region. This document takes a first look at impacts of climate on water supply and water quality for various waterbody types of the region, as well as through the lenses of the Los Angeles Water Board's programs, and begins a discussion on issues that will need to be considered and tackled over time.


Regional Board Actions Resources Local Initiatives Regional Board Drought Response

- ▶ Report: Vulnerability of Stream Biological Communities in Los Angeles and Ventura Counties to Climate Change Induced Alterations of Flow and Temperature
- ▶ Los Angeles Region Framework for Climate Change Adaptation and Mitigation Part 2

Los Angeles Region Framework for Climate Change Adaptation and Mitigation

Potential Regulatory Adaptation and Mitigation Measures

- ▶ Resolution to Prioritize Actions to Adapt to and Mitigate the Impacts of Climate Change on the Los Angeles Region's Water Resources and Associated Beneficial Uses
- ▶ Public Workshop to Discuss the Development of the Regional Water Board Climate Change Strategy - August 8, 2017
- ▶ Climate Change Strategy - Notice of Public Workshop
- ▶ Press Release: State Water Board Adopts Climate Change Resolution
- ▶ Review of climate change predictions for the Los Angeles Area. Information Item at the Regional Water Board Meeting - Feb 11, 2016
- ▶ Los Angeles Region Framework for Climate Change Adaptation and Mitigation Part 1



Final thoughts



No single solution to climate
and water crisis



Be thoughtful about which
strategies are best suited to
the location & circumstances



Fully consider & address
potential environmental
effects of actions to increase
our local water supplies