

# Emergency Storage Project

Building Water Reliability



## Improving INFRASTRUCTURE

The Emergency Storage Project is a system of reservoirs, interconnected pipelines, and pumping stations designed to make water available to the San Diego region in the event of an interruption in imported water deliveries. The Emergency Storage Project will add 90,100 acre-feet of water storage for emergency use.

### Preparing for a Water Emergency

Up to 80 percent of the water used by San Diego County residents and businesses travels hundreds of miles from Northern California and the Colorado River. Prolonged drought or earthquake damage could disrupt the delivery of imported water into the San Diego region.

### New Storage and Distribution Facilities

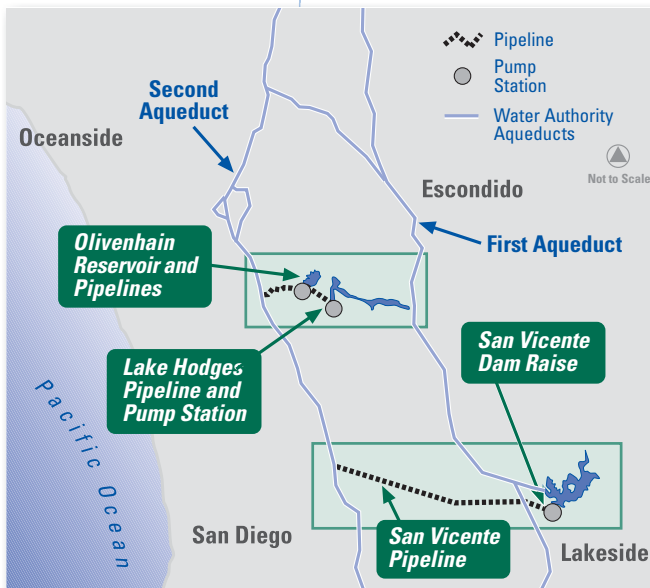
The Emergency Storage Project will protect the San Diego region from potential disruptions to the water delivery system by increasing the amount of water stored locally. New water storage and pipeline connections will distribute water throughout the region if imported water supplies are cut off. The Emergency Storage Project is expected to meet the county's emergency water needs through 2030.

Construction of the first facilities began in 2000 and the last will be complete in 2018. To minimize water rate impacts, the project cost – \$1.5 billion – is spread over several decades.

The Water Authority is addressing the environmental impacts of constructing the Emergency Storage Project by creating new wetlands, restoring habitat at project sites, and preserving sensitive habitat at other locations.



The Olivenhain Dam and Reservoir



### Emergency Storage Project – Key Facilities

#### Olivenhain Dam/Reservoir, Pipeline and Pump Station

- 318-foot-tall dam adding 18,000 acre-feet of emergency water storage (completed 2003)
- Pipeline connecting Olivenhain Reservoir to the Water Authority's Second Aqueduct (completed 2002) and water transfer pump station (completed 2005)



Welding the Lake Hodges Pipeline

### Lake Hodges Pipeline and Pump Station

- Pipeline connecting Olivenhain Reservoir to Hodges Reservoir, providing ability to access 20,000 acre-feet of emergency water in Hodges Reservoir (completed 2007)
- Electrical substation and line to deliver power locally (completed 2008)
- Pump station to generate power and move water between Hodges and Olivenhain reservoirs (operational in 2012)

### ESP Highlights

- Provides up to six months of emergency water storage in the San Diego region
- Establishes emergency water storage at Hodges, Olivenhain, and San Vicente reservoirs for use throughout the county
- Expands the pipeline system to allow region-wide emergency water distribution

### San Vicente Pipeline and Pump Station

- 11-mile pipeline connecting San Vicente Reservoir to the Water Authority's Second Aqueduct (completed 2010)
- Pump station and surge control facility to move water from San Vicente Reservoir to the Water Authority's Second Aqueduct (completed 2010)

### San Vicente Dam Raise

- An additional 117 feet added to the height of the existing San Vicente Dam will provide 52,100 acre-feet of water stored for emergency use, plus 100,000 acre-feet of storage available during times of water scarcity (under construction through 2013)



San Vicente Dam Raise

### North County Pump Station

- Pump station to move emergency water supplies to the northern-most areas of the county (to be completed by 2018)

### For More Information

For more information about the San Diego County Water Authority's Emergency Storage Project, please call toll free (877) 682-9283, ext. 7001, email [ESPinfo@sdcwa.org](mailto:ESPinfo@sdcwa.org), or visit our website at [sdcwa.org/emergency-storage-project](http://sdcwa.org/emergency-storage-project). ■



The pipelines that bring imported water to the San Diego region cross earthquake faults on the way. Earthquake damage is one example of how our water supply could be jeopardized.

### AF = acre-foot

One acre-foot is approximately 326,000 gallons, enough to supply two single-family households of four for a year.



San Diego County  
Water Authority

4677 Overland Ave.  
San Diego, California  
92123-1233  
858.522.6700

[www.sdcwa.org](http://www.sdcwa.org)



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