

Total Maximum Daily Load Progress Report	
Regional Water Board	Santa Ana, Region 8
Beneficial uses affected:	REC-1, REC-2, WARM, WILD
Pollutant(s) addressed:	Total Nitrogen, Total Phosphorus
Implemented through:	<a href="#">Caltrans Statewide Stormwater Permit, CWC §13267, MS4 Permits, NPDES Permits</a>
Approval date:	September 1, 2005

### Lake Elsinore Nutrient TMDLs

**STATUS**

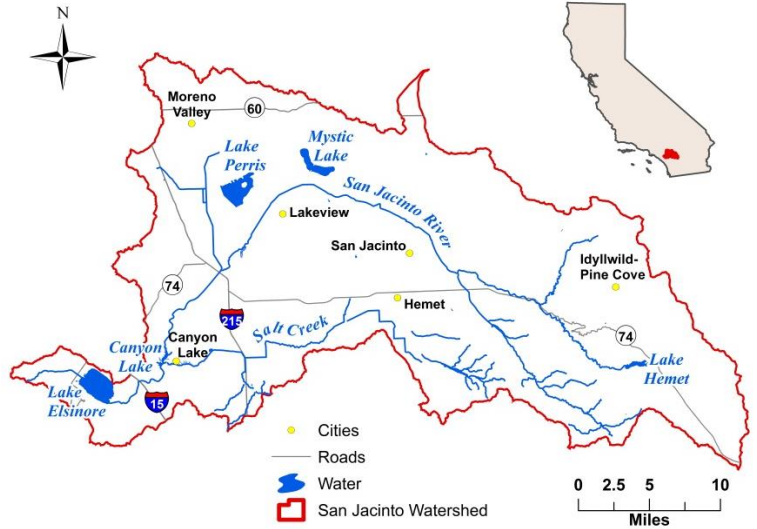
- Conditions Improving
- Data Inconclusive
- Improvement Needed**
- TMDL Achieved/Waterbody Delisted

#### TMDL Summary

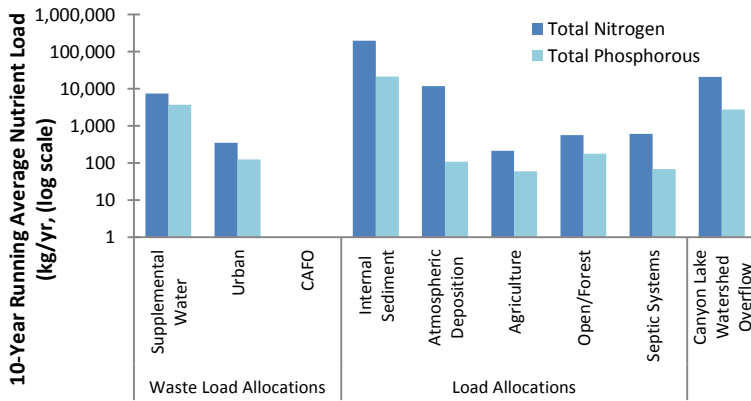
Located in southwest Riverside County, Lake Elsinore is the lowest point of the approximately 782 mi<sup>2</sup> San Jacinto River watershed and the terminus of the San Jacinto River. Lake Elsinore, a shallow lake with a large surface area, has a long history of nutrient enrichment which has led to algae blooms, low dissolved oxygen levels and excessive fish kills. To address nutrient impairments the Santa Ana Regional Water Quality Control Board developed the [Lake Elsinore Nutrient TMDL](#) for total nitrogen and total phosphorus, which was approved by the U.S. EPA in September 2005.

The TMDL established an implementation plan to address point source and nonpoint source discharge nutrient loads by incorporating waste load allocations/load allocations into existing permits. The TMDL calls for total nitrogen (TN), total phosphorus (TP) allocations, (specified as a 10-year averages), dissolved oxygen (DO), and chlorophyll-a numeric targets to be achieved by December 31, 2020.

#### San Jacinto Watershed



#### TMDL Waste Load Allocations/Load Allocations



Total final allocations are 239,025 kg total nitrogen/year and 28,584 kg total phosphorus/year.

#### Water Quality Outcomes

- Water quality data show no change in TN and TP levels; both nutrients exceed their respective TMDL targets.
- Water quality data show no change in DO levels; achievement of TMDL targets is depth dependent.
- Water quality data show Chlorophyll-a levels continue to exceed TMDL targets; Chlorophyll-a levels have been on the rise since 2007.
- [Responsible parties](#) have implemented several management projects, including an aeration system, fishery management, and lake stabilization with recycled water.
- The Santa Ana Region Water Board adopted the [Septic System Prohibition in Quail Valley](#), the [MS4 Comprehensive Nutrient Reduction Plan](#), the [Dairy CAFO permit](#) and the [Agricultural Nutrient Management Plan](#).

#### Lake Elsinore Water Quality

