Wildfire Smoke Impacts to Lake Tahoe's Water Quality

Project Number	04.01.01.0169
Action Priority	Conduct Applied Scientific Research
Implementers	Tahoe Science Advisory Council
Supporting Agencies	California Lahontan Regional Water Quality Control Board, California Natural Resources Agency, League to Save Lake Tahoe, Tahoe Fund, Tahoe Regional Planning Agency
Primary Contact	Robert Larsen (robert.larsen@resources.ca.gov)

Stage	Completed	**Duration**	2021 - 2022
Total Project Cost	$210,883	**Funding Request**	$0

Science Program › Conduct Applied Scientific Research

The project evaluated the direct connections of wildfire smoke and their interrelationships across different components of the lake ecosystem 1. Air quality, light regime, and air temperature (night and day) in the Tahoe basin; 2. The particle size distribution and concentrations in Lake Tahoe's water column affecting clarity; 3. Algal growth and changes to vertical distribution and speciation in the open water (where long-term clarity measurements occur); 4. Light changes in the atmosphere that depress or enhance nearshore algal production; and 5. Spatial differences in the type and nutrient concentrations of particles around the Tahoe basin to assess the relationship to nearshore

UC Davis researchers sampling during smoky conditions

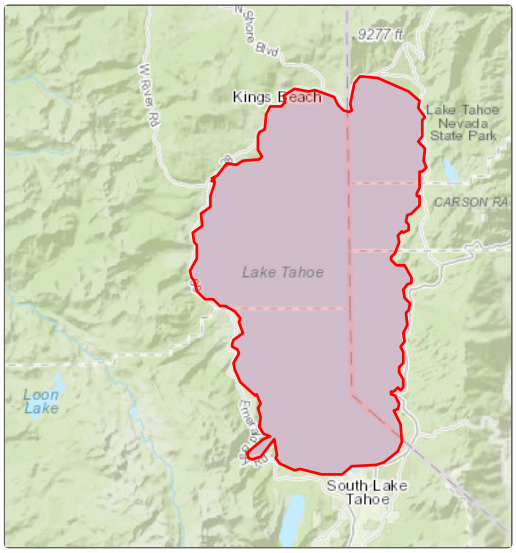
Targeted Performance Measures

No Expected Accomplishments provided

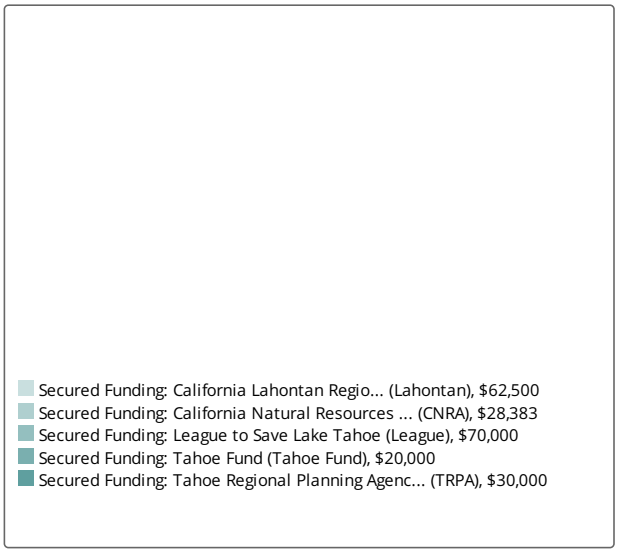
Threshold Categories

- Water Quality

Location



Targeted Funding



Photos

No additional photos provided

Project Fact Sheet Data as of 11/15/2024