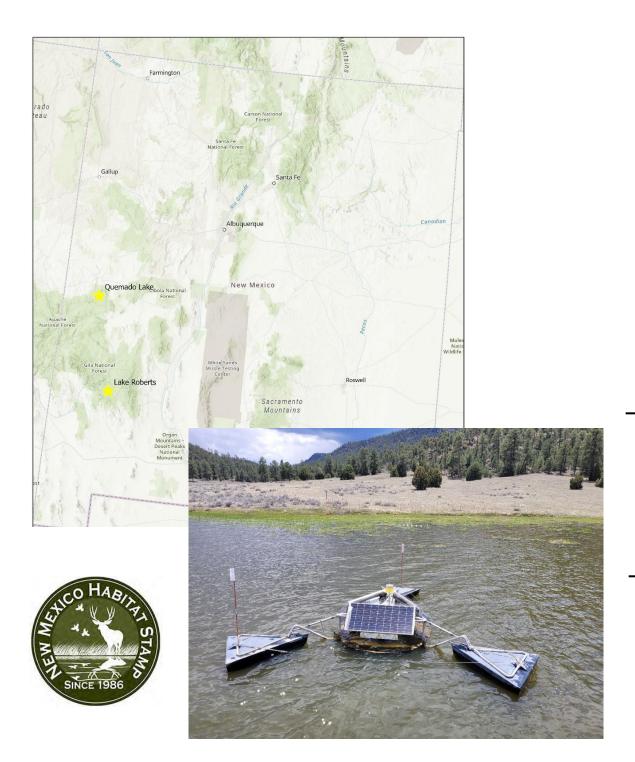
FY2025 Fisheries Habitat Restoration Project Opportunity

Solarbee Purchase



Purchase Solarbees Background Information

- Solarbees increase lateral mixing which improves dissolved oxygen, prevents and controls algae blooms, and reduces invasive aquatic weeds
- Solarbees are currently installed in Quemado Lake and Lake Roberts. Prior to the installation these lakes experience seasonal fish kills
- The Solarbees in these two lakes are past the useful life and need to be replaced
- Quemado is one of two lakes in New Mexico that have tiger muskellunge (tiger muskie). The tiger muskies were stocked in Quemado to control the Goldfish population. Due to the malfunction of the current Solarbees, there have been multiple fish kills. Unfortunately, only sportfish (e.g., tiger muskies and rainbow trout) are affected by the malfunction of the Solarbee and Goldfish are thriving
- Lake Roberts has Channel Catfish, Gila Trout, Largemouth Bass, Crappie, Bluegill, and Rainbow Trout. The Solarbees are important for all fish. No fish kills have been reported since the Solarbees were installed

Project Contacts

Department of Game and Fish

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Gila National Forest

Eileen Henry, Fish Biologist Eileen.henry@usda.gov

Proposed Management Action

- Purchase and install new Solarbees for Quemado Lake and Lake Roberts
- Estimated Budget: \$320,000

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Solarbee Purchase

Quemado Lake and Lake Roberts, Gila National Forest





Project Contacts



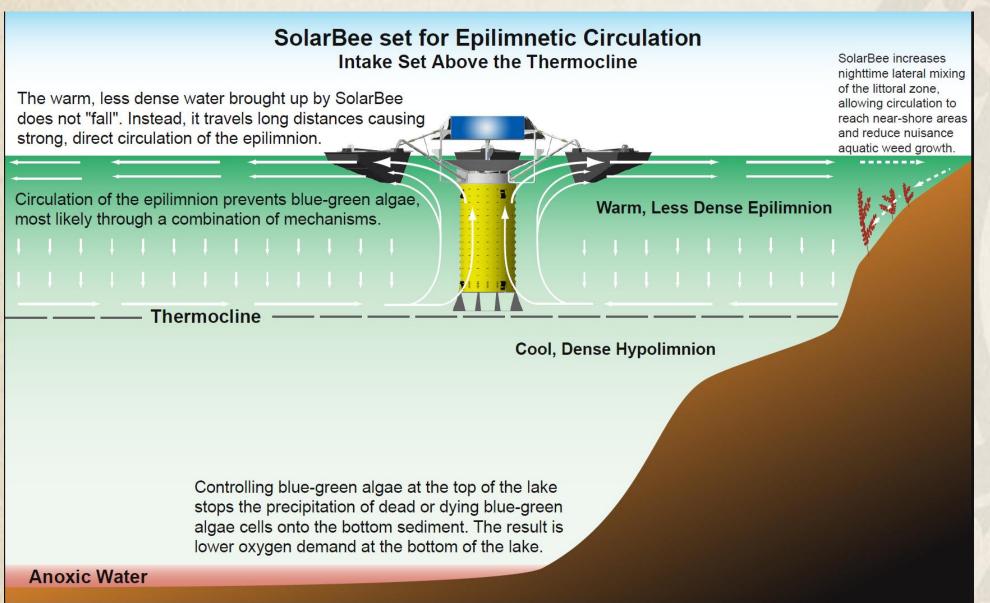


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Solarbee



- Helps prevent and control algae blooms
- Improves dissolved oxygen and pH levels
- Reduces invasive aquatic weeds and filamentous Algae

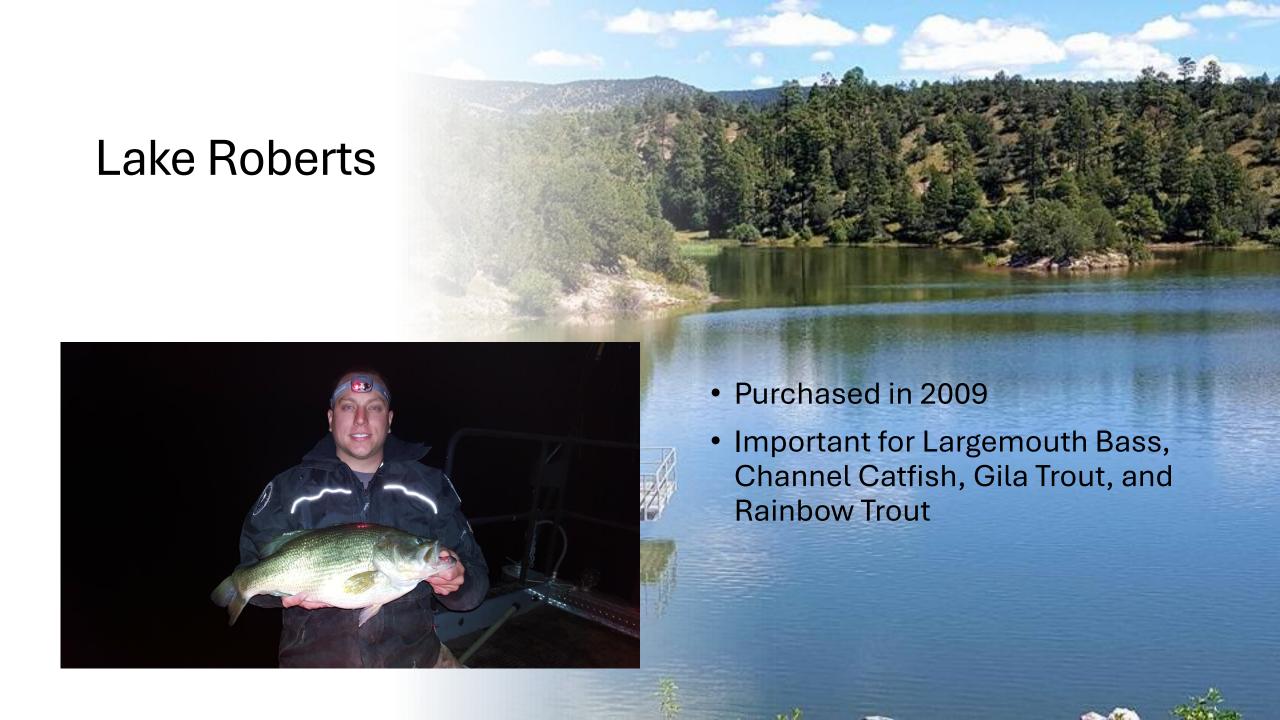
https://www.ixomwatercare.com/applications/lakes-raw-water-reservoirs

Quemado Lake





- Purchased in 2006
- Stocked with Tiger
 Muskellunge (tiger muskie) for goldfish control
- Not functioning properly, major tiger muskie and Rainbow Trout die off
- Goldfish are thriving



Project Summary-\$320,000

- Past useful life
- The solarbees need to be replaced to sustain healthy fisheries
- Purchase new solarbees (2 per lake)
- Approximately \$75,000/ each plus installation.

