



April 2021

MONTHLY PROGRESS REPORT



BOIS
D'ARC
LAKE

Bois d'Arc Lake is located northeast of Bonham in Fannin County. Project construction began on the 16,641-acre reservoir in May 2018. The lake and other projects will be able to initially treat and deliver up to 70 million gallons of water daily starting in 2022. This report provides a monthly recap of construction progress and accomplishments.

Project Overview

Dam and Reservoir

Construction includes the preparation and building of a two-mile long dam embankment, service spillway and raw water intake.

- Crews completed dam to the level needed for impoundment (beginning to hold water), and this month the lake began to fill up. They will continue placing the remaining 10 vertical feet of dirt to complete the dam and are also finishing placement of the soil cement.
- Work on the spillway's labyrinth weir and spillway bridge are the only major concrete construction remaining at the dam.

FM 897 and County Roads

Around 11 miles of county and state roads and bridges in Fannin County were improved or constructed.

- FM 897 and all county roads are open to traffic.

Mitigation

Improvements are being made to more than 17,000 acres to mitigate for loss of habitat and impacts to local streams from construction of the lake.

- Work continues replanting tree areas as well as the planting of native grasses and wetland areas. Maintenance and final construction work continue on streams and other restoration projects.

Leonard Water Treatment Plant

Construction includes a storage reservoir and five-step water treatment plant.

- Crews are installing mechanical equipment, process piping control and fire protection systems in facilities across the site.
- Trenches that will contain pipe for carrying chemicals are approximately 70% complete. Installation of piping will start soon after these are completed.

Raw Water Pump Station and Pipeline

These will pump water out of the reservoir and carry it 35 miles to the new treatment plant.

- Crews have just a few pieces of pipe to install to be completed with the raw water pipeline.
- The pipeline will be fully installed and testing will begin this month. Crews will fill it with water to be pumped to test parts of the Leonard Water Treatment Plant as well.
- Topsoil placement and property surface restoration on the right-of-way (ROW) are still in progress.
- Crews continue to build and place pipes and electrical at the pump station.

Treated Water Pump Station and Pipeline

A pump station and 25 miles of new pipe will transport the treated water to the existing NTMWD regional water system.

- Pipe continues to be laid. As the Raw Water Pipeline is completed, construction crews will continue to transition to increase the speed of this pipeline's installation.
- Additional walls and the central pipes of the pump station are being installed. Crews are also waterproofing the building.

Boat Ramp Areas and Lake Operations Center

NTMWD is building three public boat ramps and a Lake Operations Center for administrative operations and recreational and educational activities.

- Interior work (including insulation) will continue in the Operation Center. Electrical work is wrapping up.
- Crews are installing interior elements now at the nearby warehouse, installing metal doors and electrical panels.

Bois d'Arc Lake Begins to Hold Water

Earlier this month, Bois d'Arc Lake began to impound, or hold, water for the first time. This major milestone signals the beginning of the end for construction at the reservoir.

Impoundment began when workers closed the lower gates at the raw water intake structure, cutting off the flow of water through the structure and allowing the reservoir to hold water. The 110-foot-tall structure sits inside of the lake footprint and pulls water from the reservoir for treatment.

Based on estimated weather patterns, NTMWD expects the reservoir to contain enough water to begin providing treated water to its Member Cities and Customers next year. The amount of rainfall in the Bois d'Arc Lake watershed will determine how long it takes the lake to fill.



Water in Bois d'Arc Lake begins to gather in front of the intake structure.

Upcoming Milestones

In addition to the impoundment, several other key projects related to the lake are nearing important milestones.

- **The boat ramps** should all be completely finished in the next few weeks; workers are re-vegetating/cleaning up, installing handrails, pipes and cables around the perimeter.
- **The raw water pipeline** is extremely close to completion with less than four pieces of pipe to lay. Installation of the pipe should be finished end of the month.
- **The treated water pipeline** is making progress. Over five and a half miles have been installed. That's about 600 pieces of pipe.



The FM 897 Boat Ramp.

Spotlight: Oxygenating the Lake — Better Water, Better Fishing

After the lake has begun to fill part of the way, crews plan to lay pipes that will carry and distribute oxygen from two tanks near the lake's dam to the reservoir's bottom near the dam. This Lake Oxygenation System will significantly improve the water quality by reducing algae blooms and breaking down unwanted bacteria. It will also help the fish provided by the ShareLunker program to thrive—providing great fishing. While simple air compressors are often used for this purpose in other ponds, a reservoir the size of Bois d'Arc Lake needs dissolved oxygen.



Liquid oxygen tanks and vaporizers.



Pipe that will carry the oxygen under the lake.

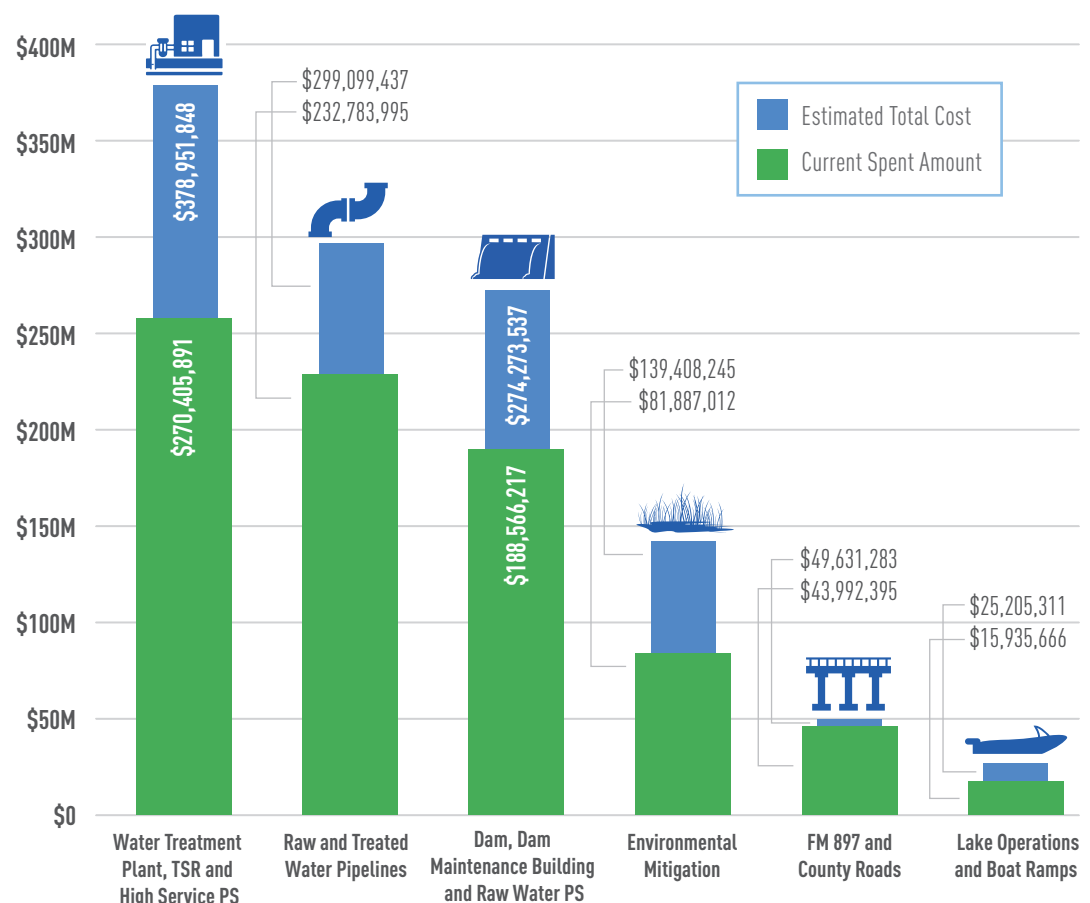
Current Cost Summary

Bois d'Arc Lake planning, permitting and construction is an important investment for North Texas.

Bois d'Arc Lake and other projects are estimated to cost approximately \$1.6 billion. These costs will be shared by the up to 80 communities who receive water from NTMWD.

The Texas Water Development Board has approved \$1.47 billion for these projects through the State Water Implementation Fund for Texas (SWIFT) program, which is anticipated to save NTMWD and its cities over \$230 million in interest.

Budget Status for Bois d'Arc Lake Project – By Each Part Current Amounts Spent Compared with the Estimated Total Costs*



As of April 1, 2021 *Figures are for construction costs only; do not include all project costs.

TIMELINE FOR PROJECTS

