



November 2020

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 foundation preparation and construction of a two-mile long dam embankment, service spillway and raw water intake.

- Crews are placing the last 400,000 cubic yards of earth before water is able to be impounded, or captured (an additional 300,000 will be placed to finish the dam after this occurs).
- Crews are wrapping up the last of the spillway walls and will continue to work on the top deck of the intake structure as well as the intake access bridge.

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 now 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.

- Improvements to the Willow Branch Creek are finished. Additional work continues on nearby wetlands as well as forest and woodland areas.
- Workers are preparing the upper Bois d'Arc Creek mitigation area for the last set of tree plantings this winter.

Leonard Water Treatment Plant

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

- A number of the more treatment-specific aspects of the plant are being built/connected on structures across the site.
- The operations building for the plant is being painted and its drywall, doors, plumbing and metal roofing installed.

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 continue to build and place panel walls, pipes and electrical at the pump station.
- Topsoil placement and property surface restoration on the Right-of-Way (ROW) are in progress.
- Fiber conduit installation is underway. The first section of pipeline is 92% complete.
- Crews have delivered all of the raw water pipe and completely finished installing the first section. The goal is to have the remaining two sections of the pipeline installation complete by end of January 2021.

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.

- Pieces of pipeline continue to be delivered, and tunneling also continues. Crews plan to begin installing pipe in December.
- The wall for the treated water pump station will be completed soon, and crews will start working on the roof deck.

Boat Ramp Areas and Lake Operations Center

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

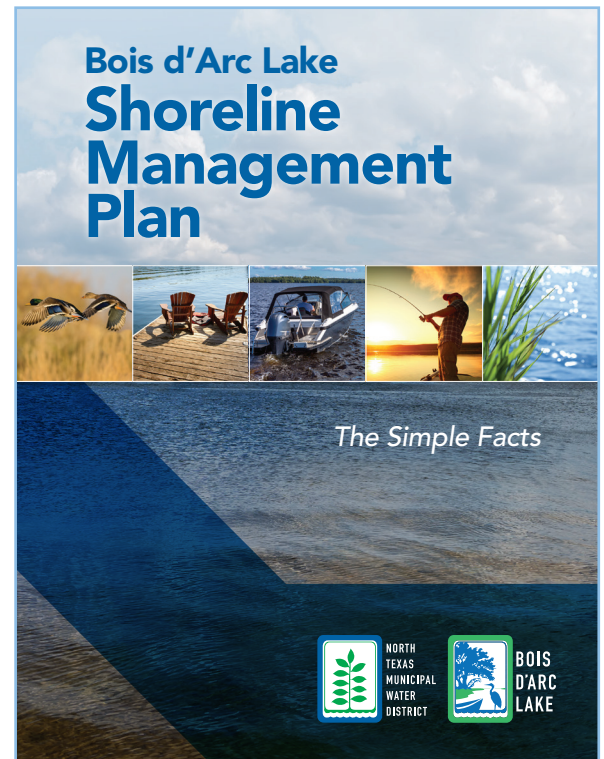
- Outside details are being completed on the Lake Operations Center, and sidewalks are now installed.
- Construction continues on the warehouse and other NTMWD facilities and recreation projects near the lake.

Shoreline Management Plan Approved

This October, the North Texas Municipal Water District (NTMWD) Board of Directors approved the proposed Shoreline Management Plan (SMP) for Bois d'Arc Lake.

The SMP regulates uses (boat docks, fishing piers, vegetation modification, etc.) of NTMWD property along the shoreline by current and future private property owners. Its goal is to protect the lake's water quality and safeguard the environment while also allowing for safe lake recreational uses.

Check out our new brochure on the SMP basics, and learn more about the SMP at boisdarclake.org/construction/bois-darc-lake-shoreline-management-plan/.



Daniel Kampfer (in the orange vest) is the RES Project Superintendent for Bois d'Arc Lake mitigation work and a resident of nearby Bonham. Here he leads an inspection of wetland berms.

Local Talent Tapped for Restoration Work

Over the past two years, NTMWD and its contractor Resource Environmental Solutions (RES) have retained over 20 local professionals in full-time employment or significant, multi-year contract roles as part of the reservoir's mitigation efforts. RES has hired local professionals and tradespeople for roles ranging from general ecological planning and project management to the construction and restoration of streams, wetland ponds and berms, roads, fencing and tree plantings.

Daniel Kampfer, RES Project Superintendent points out that local workers bring "knowledge of the land, the soils, the hydrology and how to get things done in Fannin County." At the same time, "these workers are gaining unique experience on one of the largest restoration projects in the country. Each one of them is now uniquely qualified to work on future ecological restoration projects over the course of their careers."

In short, the project is a win-win for everyone.

Spotlight: Willow Branch Creek Is Finished

Willow Branch Creek has reclaimed its original riverbanks and local ecosystem. Eight miles of stream and almost 5,000 acres of wetland have been created or restored as one of the nation's largest environmental projects. Willow Branch Creek restoration work is complete, and crews hired by NTMWD will be moving on to restoration efforts at the upper Bois d'Arc Creek mitigation site, including planting trees there.



Moving dirt to reroute the main stream channel to a more natural path



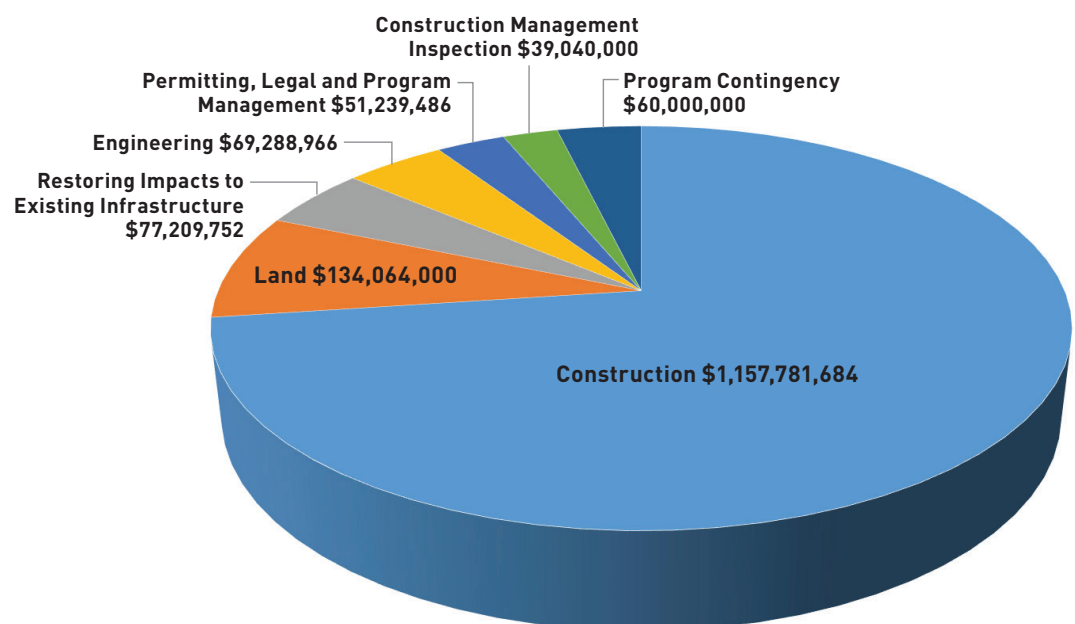
Restored Willow Branch Creek tributary

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.

Total Budget Breakdown



As of November 1, 2020

TIMELINE FOR PROJECTS

