

May 2019

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 clearing soil and vegetation to build a 2-mile-long dam embankment, a water spillway for the lake and other related structures.

- Second concrete pour was completed for the walls of the intake tower (which moves water from the lake to where it can be pumped out for treatment).
- Workers have installed approximately 65% of the 78-inch conduit pipe between the intake tower and raw water pump station.
- Crews continue brush/fence removal and have used cleared, bundled tree branches/trunks to create fish habitats in 36 areas of the future lake.

FM 897 and County Roads

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

- Crews are progressing on the substructure for the new FM 897 bridge.
- Work continues on moving earth for FM 897 pavement sections north and south of the bridge.
- Bridge substructure, embankment and other work are well underway on multiple county road locations.

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.

- The U.S. Army Corps of Engineers and the Texas Commission on Environmental Quality have conducted initial monitoring of mitigation work.
- Crews worked on demolition of structures, fence removal and stockpiling of trees and boulders.

Leonard Water Treatment Plant

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

- Excavation and grading for construction of the treatment plant site is almost complete. Foundation work and structural concrete is underway.
- As the soil removal/excavation for every structure has been completed, each site has been handed over to its lead contractor to begin construction.

Raw Water Pump Station and Pipeline

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

- Excavation for the raw water pump station is complete.
- Tunneling and other preparations for the raw water pipeline continue.

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.

- Designs for all sections of the new treated water pump station and pipeline will be completed in the next few months.

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/educational activities.

- Design work continues for the center and ramps, and is scheduled for completion later this summer.

FM 897 and County Road Construction

Accomplishments

- Wet weather this spring has slowed work on various parts of the Bois d'Arc Lake project, including road work. Crews are still scheduled to complete road work by summer 2020 though.
- Excavation, embankment, drainage and erosion work are all currently underway on FM 897. Additionally, two crews are installing columns and pouring concrete for the bridge's structure.
- Embankment, grading and bridge substructure work are well underway on the majority of impacted county roads. Crews are preparing to set bridge beams on some sites.

Up Next

- The first detours are expected to be put into place on existing roads north and south of the future bridge.
- Crews will continue to work on the bridge structure and drainage for FM 897.
- Topsoil, seeding, signage and other final parts of road construction will be completed in the next few months on three of the county road sites.



Construction on Fannin County roads will ramp up this summer, leading to some temporary and permanent road closures. You can find road closure information on the Bois d'Arc Lake website, www.BoisdArcLake.com/ConstructionAlerts.

Leonard Water Treatment Plant and Pump Station

Accomplishments

- Rock anchors for the plant's clearwell (the final place that water is stored as part of the treatment process) have been installed and are being tested.
- Workers are mostly finished moving dirt for the plant, and individual construction crews are beginning to build their specific parts of the future plant.
- Pipe, conduit and work below foundations are underway. Structural concrete pours will begin soon.

Up Next

- Construction on various parts of the new plant will be in full swing over the summer.
- Land has been obtained for the Terminal Storage Reservoir, which will hold raw water delivered from the lake before it is treated at the plant. The storage reservoir's construction will likely begin in June.
- The treated water pump station needed to push water from the plant into the regional water distribution system is also in the final stages of approval and scheduled to break ground in July.



A construction crew at Leonard surveys their work. 99% of all excavation and other earthwork for the plant is now complete.

Celebrating One Year of Construction

Coordinating the teams and resources to construct a 16,641-acre lake and other projects worth \$1.6 billion is no simple task. We are grateful and excited to already be celebrating a tremendous amount of teamwork and progress as we reach the Bois d'Arc Lake project's one-year anniversary. Since construction began in May of 2018, crews and team members have:

- Cleared 82% (totaling 4,011 acres) of trees, brush, fences, ponds and other structures in the reservoir footprint.
- Moved 531,410 cubic yards of earth to create the reservoir dam and embankment to hold the lake's water.
- Completed over 20% of all tunneling for the raw water pipeline to be laid.
- Completed 99% of all excavation and other earthwork for the Leonard Water Treatment Plant, moving a total 624,085 cubic yards of earth.



One year and more than 434,400 man-hours post-groundbreaking, the reservoir and other related projects (including the lake spillway pictured above) are taking shape.

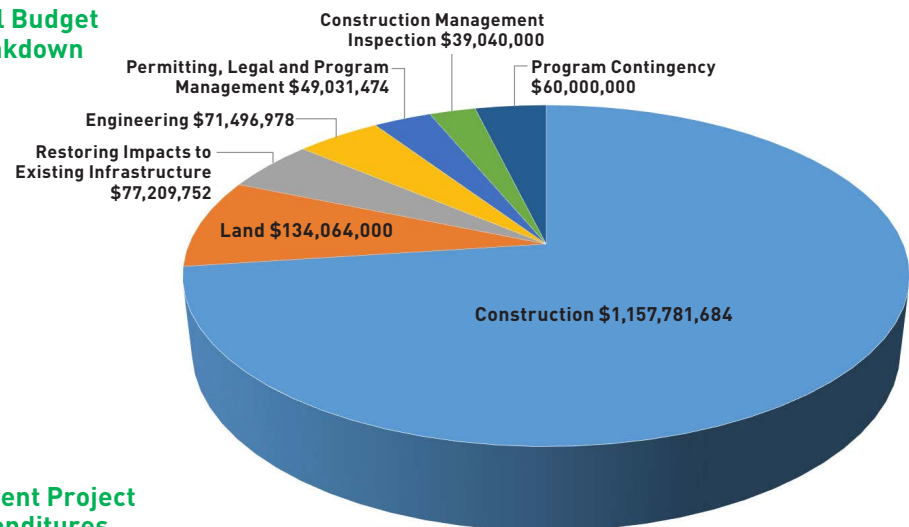
- Removed 95,136 cubic yards of soil for FM 897/county roads and built up an additional 121,245 cubic yards for road structure embankments.

The planning, permitting, designing, land purchasing and constructing of Bois d'Arc Lake and other projects is an important investment for the future of North Texas.

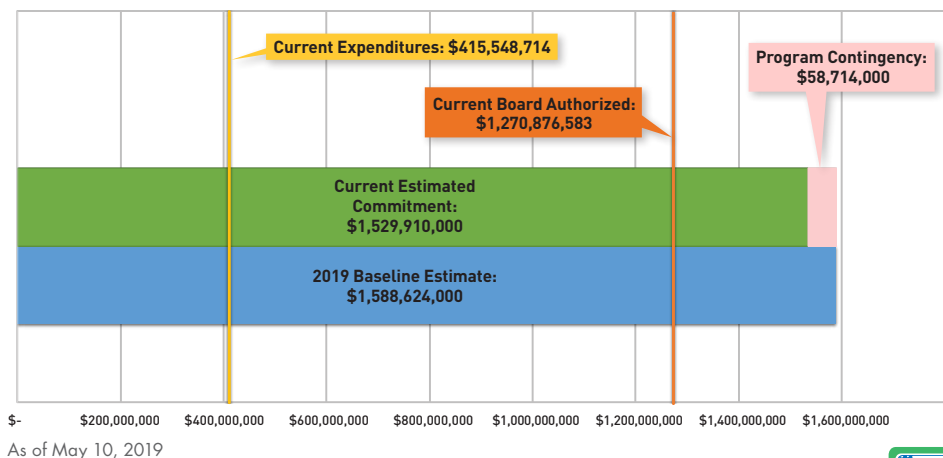
Bois d'Arc Lake and other projects are estimated to cost approximately \$1.6 billion. These costs will be shared by up to 80 communities who receive water from NTMWD. The Texas Water Development Board has approved \$1.47 billion for these projects through the State Water Implementation Fund for Texas (SWIFT) program, which is anticipated to save NTMWD and its cities over \$230 million in interest.

This pie chart offers a breakdown of the total budget for the reservoir and other projects, and the bar chart shows current expenditures.

Total Budget Breakdown



Current Project Expenditures



TIMELINE FOR PROJECTS

