

April 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 treat and deliver up to 70 million gallons of clean water daily starting in 2022. This report provides a monthly recap of construction progress and accomplishments.

Project Overview

Dam and Reservoir

Construction includes the clearing for building of a 2-mile-long dam embankment, a water spillway from the lake and other related structures.

- Third concrete pour at intake tower completed; crews have begun work on the walls.
- Seal slab concrete poured for the stilling basin and spillway chute.

FM 897 and County Roads

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

- Bridge construction is progressing.
- Three county roads will near completion in the next few months.

Mitigation

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

- More than 1.5 million trees planted to date.
- Work has advanced on several of the streams.

Leonard Water Treatment Plant

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

- Soil removal and grading is nearing completion.
- Building foundations will be poured shortly. Crew leaders are mobilizing and preparing for building construction as well.



Raw Water Pump Station and Pipeline

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

- Work has started on the rock anchor installation for the pump station foundation.
- 24-hour tunneling has begun on the raw water pipeline.

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 will be completed by mid-2019 for both the new treated water pump station and pipeline.

Boat Ramp Areas and Lake Operations Center

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

- Designs for the center and ramps will be completed by the middle of this year.

For more information, visit www.BoisdArcLake.org



Reservoir and Dam

Accomplishments

- Work is underway on earthen embankments east and west of Bois d'Arc Creek for the reservoir's two-mile-long, 90-foot-tall dam. Weather permitting, crews are working at speeds well above average, helping to make up for rainy/wet conditions last fall. They are currently adding approximately 15,000-17,000 cubic yards of earth to the dam structure each day.
- The intake tower foundation slabs are now complete, and work is underway on the tower's walls.
- Crews are preparing to pour concrete over the seal slabs for the stilling basin and a portion of the spillway chute, which will release water from the lake back into Bois d'Arc Creek.
- A total of 16 contracts for this portion of the project have been awarded to local contractors in Fannin and surrounding counties.



Pouring concrete for the walls of the Intake Tower at the Bois d'Arc Lake site.

Up Next:

- Work on the dam is anticipated to continue to increase in speed as the future reservoir area dries out.
- Conduit pipes to move water through the intake tower will be installed shortly and encased in concrete.

Local Contractors Hired

Four primary contractors are leading construction activities for components of the project. NTMWD is committed to hiring local contractors when possible to assist with the construction of various components. To date, 50 contractors in Fannin County and the surrounding area have been hired to support various components totaling almost \$50 million. Following is a breakdown of local contractors being used to support various project components:

- Program support: 4
- Dam, reservoir clearing and terminal storage reservoir: 16
- Mitigation project: 17
- Leonard Water Treatment plant, high service pump station and raw water pump station: 3
- FM 897, county roads and boat ramps: 10



Contractors work on bridge sections of one of the county road sites around Bois d'Arc Lake.

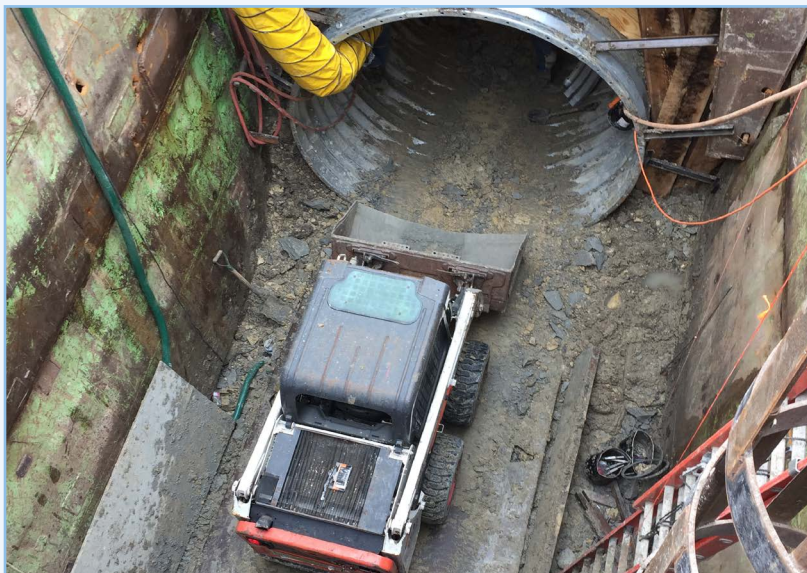


Our construction field staff are proud to be working with so many locals as they build the state's newest lake.

Project Spotlight: Tunneling for Water

On April 1st, contractors for the Bois d'Arc Lake's raw water pipeline began digging and laying the 90-inch pipeline. Currently, two crews of six workers are digging around the clock in 12-hour shifts to finish two sections of tunnel necessary to begin laying the pipeline. Two additional crews (and around twelve more workers) are anticipated to join them shortly.

Twenty-one tunnels and crossings totaling over half a mile must be completed to lay the thirty-five-mile pipeline under/over roads, railroads and streams. Once it is complete, the pipeline will carry Bois d'Arc Lake water all the way to the Leonard Water Treatment Plant, currently under construction, where it will be treated before distribution.



Crews of six work in shifts to finish tunneling locations for the future raw water pipeline.

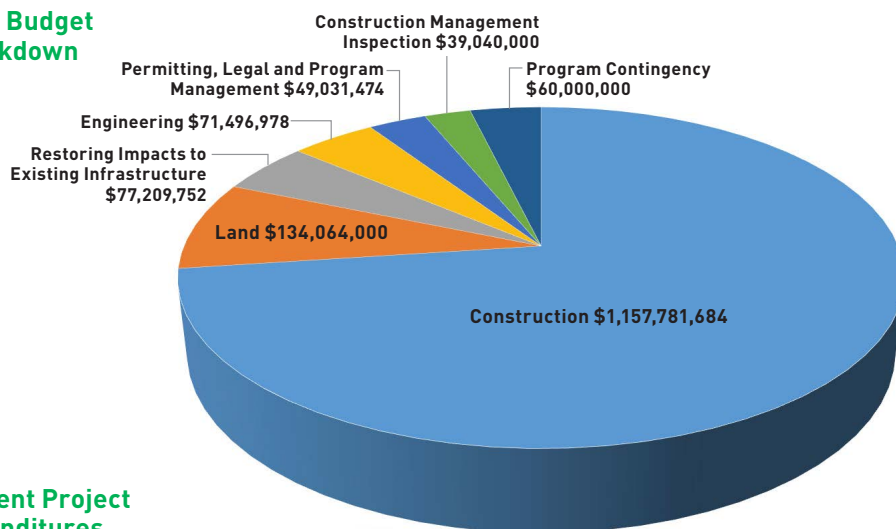
Current Cost Summary

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

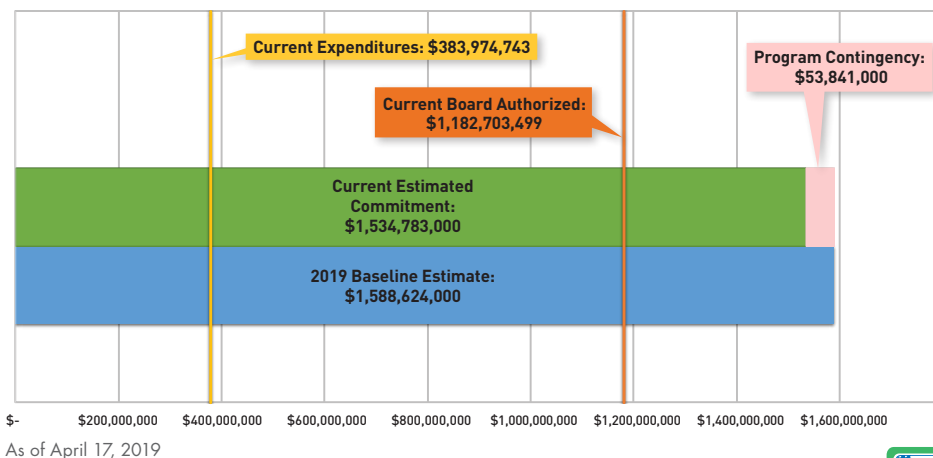
Bois d'Arc Lake and other projects are estimated to cost approximately \$1.6 billion. These costs will be shared by the up to 80 communities who receive water from NTMWD. The Texas Water Development Board has approved \$1.47 billion for these projects through the State Water Implementation Fund for Texas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

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

