

March 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.

- Clearing of trees, removal of debris and fence removal ongoing.
- Second concrete pour at intake tower completed.
- Construction on structures and embankment has begun.

### FM 897 and County Roads

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

- Road construction continuing on the new FM 897 highway and bridge.
- Local county road work underway.

### 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.

- Crews planted more than 1.2 million trees by mid-March.

### Leonard Water Treatment Plant

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

- Crews are stabilizing the soil and preparing plant foundation sites.
- Terminal storage reservoir plans submitted mid-February 2019. Contractor procurement has begun.



### 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.

- Designs for the raw water pipeline are complete; procurement of pipeline contractors is ongoing. Construction to begin in April/May this year.
- Excavation is complete at the RWPS. Crews continued placement of seal slabs and installation of rock anchors for the structure's foundation.

### 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.

### Recreation 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 events.

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

For more information, visit [www.BoisdArcLake.org](http://www.BoisdArcLake.org)



## Raw Water Pump Station and Pipeline Work

### Accomplishments

- Raw Water Pump Station design complete and construction now underway with placement of seal slabs and early installation of rock anchors for testing in preparation for the massive pump station foundation.
- Final designs for all three sections of the Raw Water Pipeline segments were submitted mid-March 2019.

### Up Next:

- Team making final selection of contractor(s) to build the Raw Water Pipeline.
- Complete installation of rock anchors for the Raw Water Pump Station foundation. Work on the cast-in-place concrete slab will continue into the spring/summer.



*Crews place seal slabs for the Raw Water Pump Station.*



*Rock anchors are also installed at the Raw Water Pump Station.*

## Road Construction

### Accomplishments

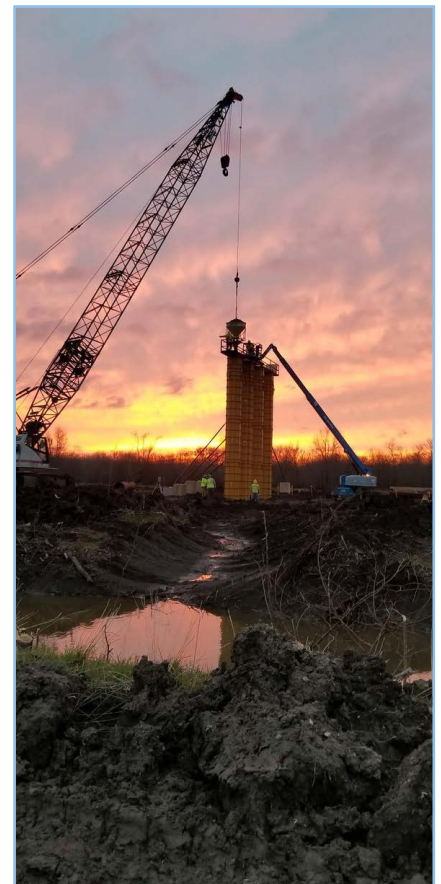
- Crews continue construction on substructure of the new FM 897 bridge as well as moving and spreading earth for the roadway.
- Work has begun on the temporary detour road and FM 897/US 82 intersection.
- Work on all but two of the county road sites is underway. Crews are working on clearing and preparation of right of way, installation of embankment, bridge substructure and culvert construction.
- Most work on county roads is or will be underway by this summer.

### Up Next:

- Construction to continue on various county roads and FM 897 bridge substructure.
- Teams will start work on the FM 897 bridge beam and deck placements.
- Construction on paved sections of FM 897 will begin once the temporary detour is complete and traffic routed accordingly.



*Crews construct bridge deck for one country road near Bois d'Arc Lake.*



*A column for the FM 897 bridge is placed in time for sunset.*



## Project Spotlight: Planting Trees and Directing Streams

*"Building a water supply is smart development, and we can do smart development and protect the environment at the same time."* ~Tom Kula, Executive Director, NTMWD

At the Bois d'Arc Lake development site, protecting the environment includes a number of important improvements to nearby habitat. Right now, crews are working hard at local mitigation sites to counteract any loss from the acres of natural habitat that will eventually be submerged.

Crews have already planted more than 1.2 million new trees as of mid-March as well as other native plants like buttonbush, and removed 150,000 ft., or well over 1/3, of the fencing at the designated Riverby Mitigation Area. They have also recently started to remove old trees from the future reservoir site. These will be transformed into wildlife habitat structures outside of the floodplain.

Crews dedicated to stream improvement are constructing water channels and installing erosion control fabric along Ragsdale Creek. They are also planting "live stakes," or branches cut from nearby trees, along the creek bed to grow into new trees. Once these start to take root, they will help support the stream banks and local ecosystem.



Crews plant buttonbush at a designated mitigation site.

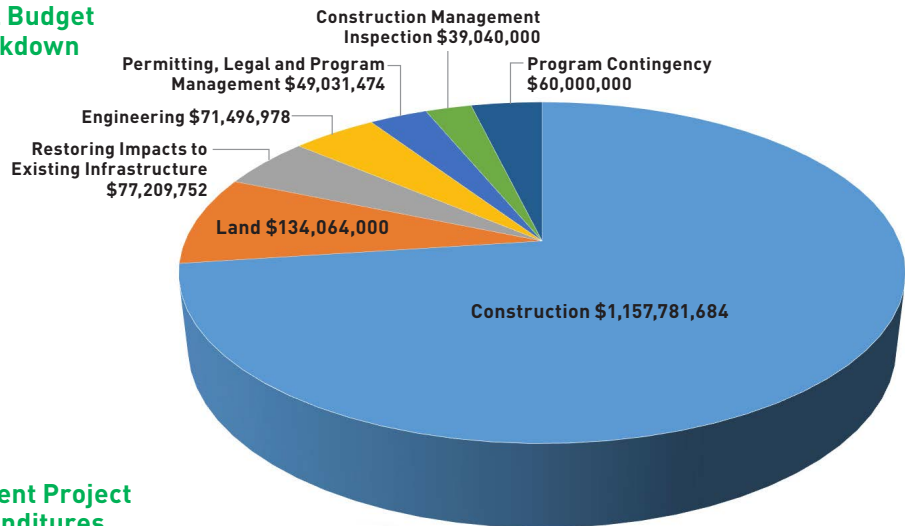
## Current Cost Summary

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

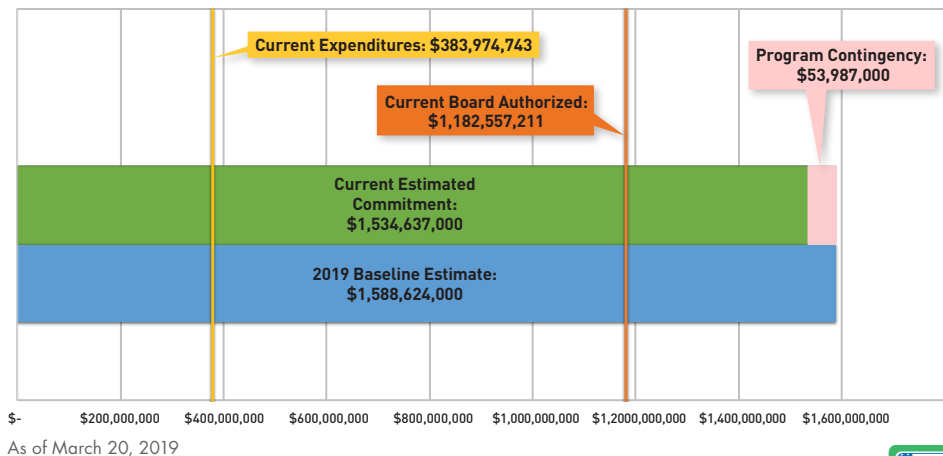
Bois d'Arc Lake and other projects are estimated to cost approximately \$1.6 billion. These costs will be shared by the up to 80 communities who receive water from NTMWD. The Texas Water Development Board has approved \$1.47 billion for these projects through the State Water Implementation Fund for Texas (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

