

HALLIGAN WATER UPDATE SUPPLY PROJECT



November 2020

BACKGROUND

The Halligan Water Supply Project would enlarge Halligan Reservoir, an existing reservoir on the North Fork of the Poudre River, to meet the demand of future Fort Collins Utilities' water customers and provide increased reliability for existing customers in the event of emergencies, drought and climate-change uncertainties. The project would expand the reservoir by about 8,100 acre-feet by increasing the height of the existing 70-foot dam by 25 feet. For context, an average single-family home uses almost a third of an acre-foot of water each year (about 108,000 gallons).

The project reached a milestone in November 2019 after many years of hard work, when the draft EIS was released. The final EIS should be released in 2021.

Permits are required from the U.S. Army Corps of Engineers (Corps) and other federal, state and county agencies to enlarge Halligan Reservoir. Staff continue to support preparation of a final EIS by the Corps. Additionally, staff are working toward other permitting processes, including the Fish and Wildlife Mitigation Plan and the 401 Water Quality Certification.

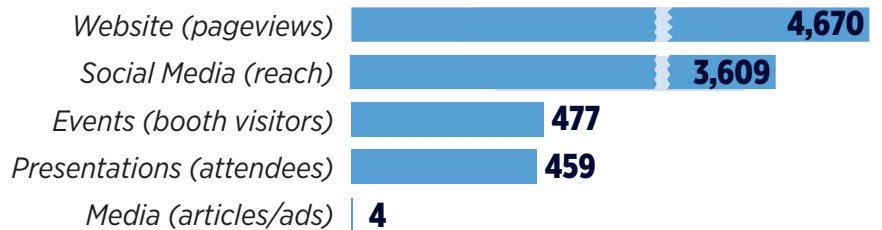
PROGRESS UPDATE

Permitting and Mitigation

- The Corps is addressing comments on the draft EIS and working toward preparation of the final EIS, which is anticipated mid-2021.
- Staff are working closely with Colorado Parks and Wildlife to develop concepts for the Fish and Wildlife Mitigation Plan.
- Work toward the 401 water quality certification continues, including additional water quality sampling this year.

Public Engagement & Communication

- City staff prepared a short animation in response to comments received on the draft EIS. Watch at: [fcgov.com/halligan-comments](https://www.fcgov.com/halligan-comments)
- Project-specific communications and engagement since January:



Property Acquisition and Easements

- Staff continue to work with several landowners to develop easement agreements for permitting and design access.

Preliminary Design

- Preliminary design activities are underway. See images below.



Drilling to evaluate ground conditions for the enlarged dam



Extracting cores to evaluate structural integrity of the 111-year-old dam



ANTICIPATED COSTS

Project costs were updated in 2019 pending the release of the draft EIS and with information learned over the previous two years. The estimate is presented as a range due to the long-term nature of the project, the conceptual nature of the current design and the uncertainty associated with a complex water supply project. As noted in previous quarterly updates, costs are anticipated to change and likely grow as the scope is refined and permitting requirements and design elements are better understood.

Costs will be updated again in 2022 after preliminary design is complete and more is known about the project design, permitting and mitigation elements. Costs will continue to be updated as new information is obtained. Updated cost estimates and other decision factors will be evaluated at project milestones to verify that the Halligan Project remains the most cost-effective water supply solution for Utilities' customers.

Currently, the Halligan Project is anticipated to provide firm yield at about \$15,000 per acre-foot and is the most cost-effective project to meet the City's water supply needs. For comparison, the market rate for firm yield from the Colorado-Big Thompson (CBT) Project is approximately \$60,000. Also, the Northern Integrated Supply Project (NISP) and Windy Gap Firming Project unit costs are currently \$30,000 and \$20,000 per acre-foot, respectively.

Figure 1: Cost Range

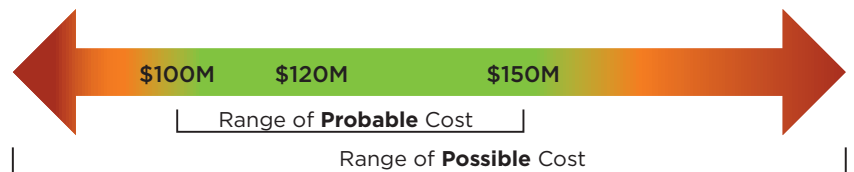


Figure 2: \$ Spent vs. Projected Costs

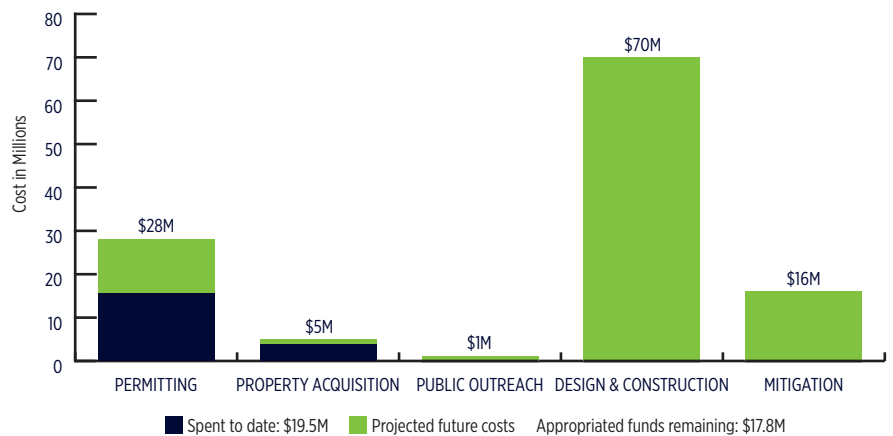
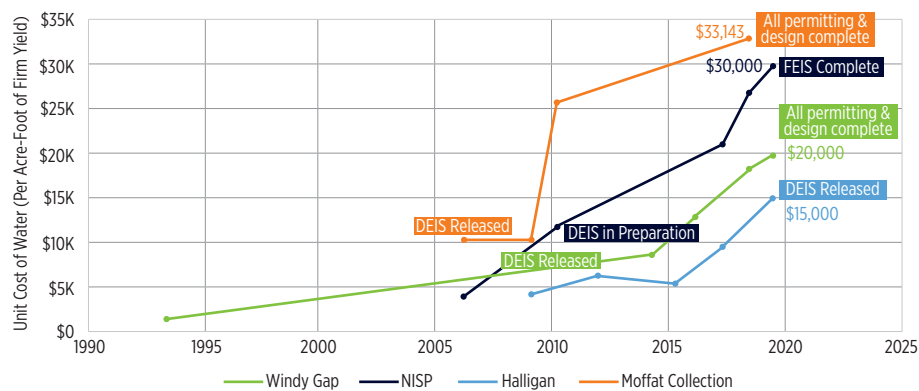


Figure 3: Regional Water Supply Projects Unit Cost through Time



2019 costs shown for other projects were published information at that time and may not represent actual 2019 cost estimates.

For more information, visit fcgov.com/halligan

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