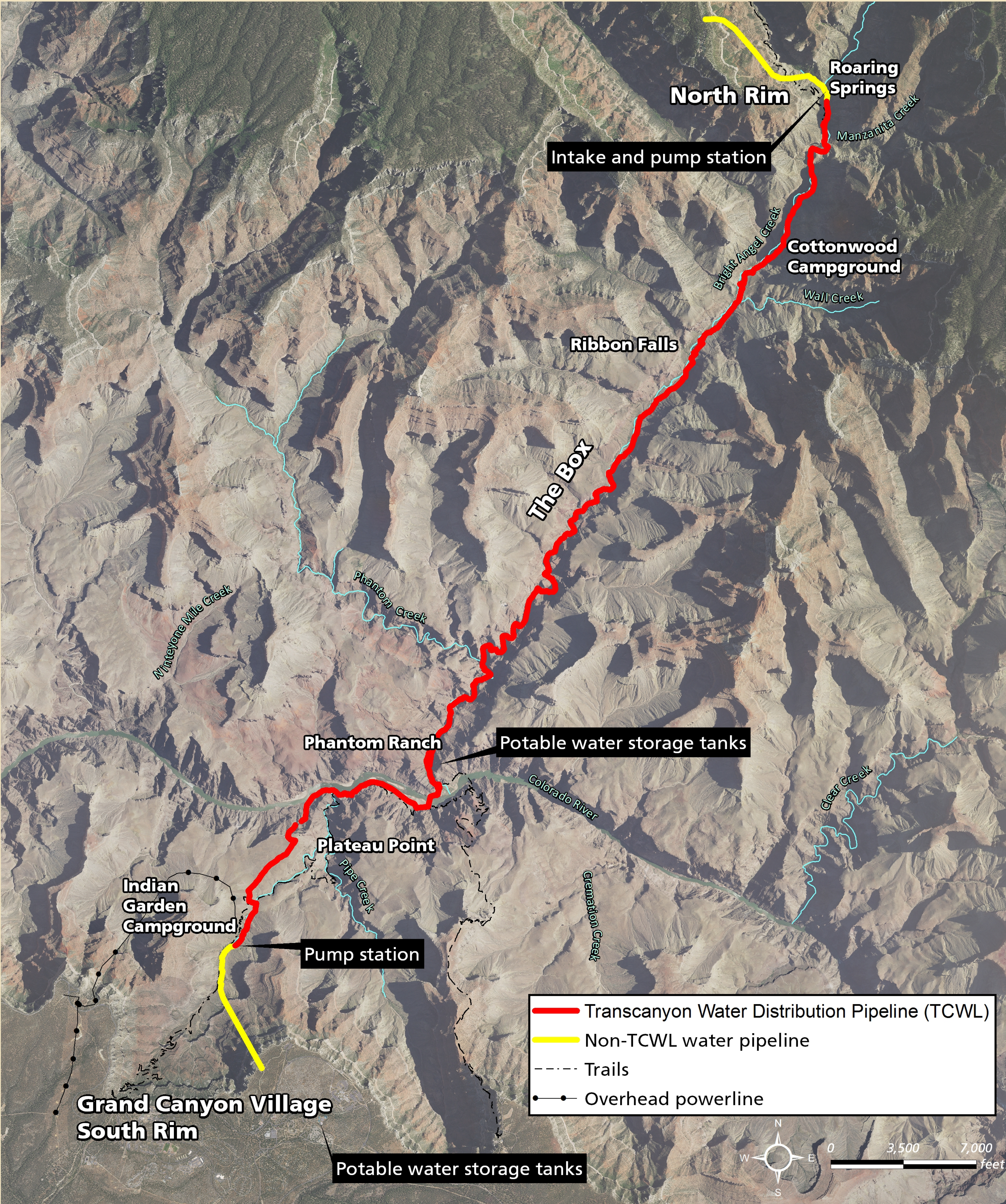




Transcanyon Water Distribution Pipeline
Environmental Assessment

Project Area and Existing Condition



Transcanyon Water Distribution Pipeline Environmental Assessment

Purpose and Need

The purpose of the project is to provide a reliable water delivery system to meet park water supply needs for a project lifespan of approximately 50 years. The project is needed because the Transcanyon Water Distribution Pipeline (pipeline), which was constructed in the 1960s, is beyond its useful life, experiences frequent failures, and requires continual maintenance to repair leaks.

Project Objectives:

- Improve the pipeline's water delivery reliability and resiliency
- Minimize disruptions to visitor access and services during construction
- Minimize impacts on visitor experience and wilderness character during and after construction
- Maintain the historic character of the Cross Canyon Corridor Historic District
- Minimize impacts on archaeological sites and ethnographic resources
- Minimize visual and noise impacts on special status wildlife from helicopter use and other construction activities





Transcanyon Water Distribution Pipeline Environmental Assessment

No Action Alternative

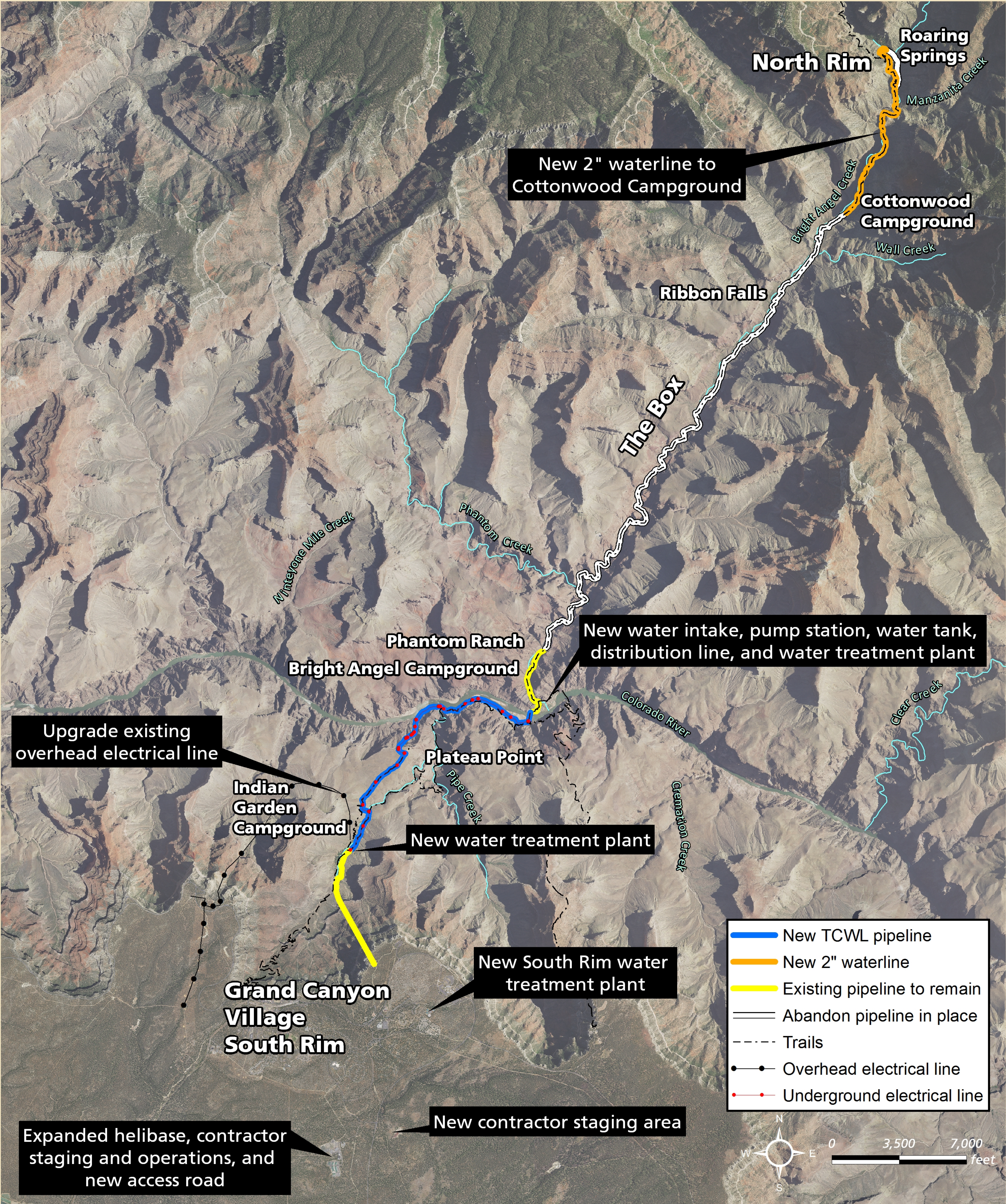
Under the No Action Alternative:

- Water would continue to be gravity fed from Roaring Springs to Indian Garden and pumped from Indian Garden to the South Rim
- Continued operation and maintenance of the existing pipeline
- Repairs of the pipeline would occur periodically due to breaks
- Between 5 and 30 breaks occur each year and this number is expected to increase as the pipeline ages
- Water restrictions in the Cross Canyon Corridor and on the South Rim would continue to be required during and following pipeline breaks and repairs
- No new facilities, such as water treatment facilities at Phantom Ranch, Indian Garden, and South Rim, would be constructed



Transcanyon Water Distribution Pipeline Environmental Assessment

Alternative B – Relocate Water Intake (Preferred Alternative)



Transcanyon Water Distribution Pipeline Environmental Assessment

Alternative B – Relocate Water Intake (Preferred Alternative)

Alternative elements would include:

- Phantom Ranch: Relocated water intake, raw water storage tank, booster pump station and local water treatment plant (WTP), potable water storage tank, and pump station
- Indian Garden: Local WTP and potable water storage tank
- 3 miles of pipeline replaced from Phantom Ranch to Indian Garden
- 9 miles of pipeline left in place from Roaring Springs to Phantom Ranch
- South Rim: WTP, expanded helibase and contractor staging and operations area, and new access road
- Upgrade existing electrical line from South Rim to Phantom Ranch
- Constructed would take 4 to 5 years



Transcanyon Water Distribution Pipeline Environmental Assessment

Alternative C – Replace Pipeline In Same Location

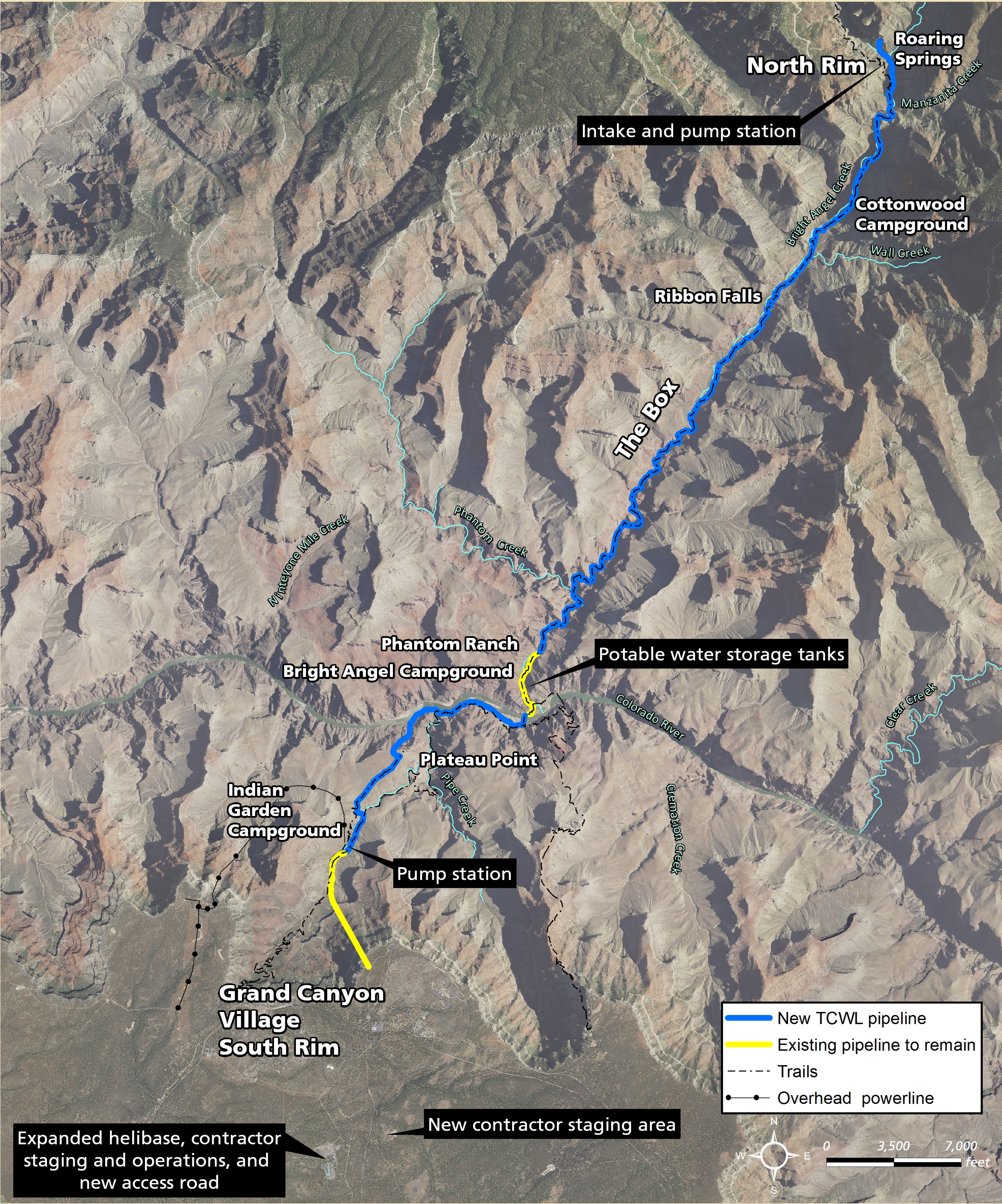
Alternative elements would include:

- Water would continue to be gravity fed from Roaring Springs to Indian Garden and pumped from Indian Garden to the South Rim
- Replacement of 12 miles of pipeline
- South Rim: Expanded helibase, contractor staging and operations area, and new access road
- No new facilities, such as water treatment facilities at Phantom Ranch, Indian Garden, and South Rim, would be constructed
- Construction would take 5 to 6 years



Transcanyon Water Distribution Pipeline
Environmental Assessment

Alternative C - Replace Pipeline in Same Location



Transcanyon Water Distribution Pipeline Environmental Assessment

Impacts

- Bright Angel Creek Native Fish
- Special Status Terrestrial Wildlife
- Cultural Landscapes and Historic Structures and Buildings
- Archaeological and Ethnographic Resources and Traditional Cultural Properties
- Visitor Use and Experience
- Wilderness Character
- Backcountry Commercial Use Socioeconomics
- Soundscape and Acoustic Environment



Bright Angel Creek



Visitor Experience



Wilderness Character



Wildlife



Cabin at Phantom Ranch



Transcanyon Water Distribution Pipeline Environmental Assessment

NEPA Process

July 2017	Public scoping period begins and public scoping meetings
August 2017	Public scoping period concludes NPS reviews public scoping comments
September 2017 to September 2018	Develop alternatives, analyze impacts, and write EA
October/ November 2018	EA available for public review and comment/public meetings
November/ December 2018	NPS reviews and analyzes comments
Early 2019	NPS issues Decision Document

WE ARE
HERE



Transcanyon Water Distribution Pipeline Environmental Assessment

We Welcome Your Input and Comments!

Comments can be submitted during this open house:

Comment cards available at the sign-in table

Online by visiting <http://parkplanning.nps.gov/grcatcwl>

Comments may also be sent to the address below:

Superintendent
Grand Canyon National Park
P.O. Box 129
Grand Canyon, Arizona 86023

Comments on the EA will be accepted until **November 10, 2018**