

Water & Sewer Agenda Summary

Date: August 17, 2022

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Title: Integrated Water Resources Plan update: climate influenced hydrology

Summary:

The current Greeley Water Supply Master Plan is more than 17 years old. Since the creation of the last master plan in 2003, Greeley's strategies to continue to provide a robust, resilient water supply have evolved and the water market has transformed. Likewise, widely accepted strategies used to plan for water development have progressed. Consequently, the Water Resources team has been developing a new water master plan, through a process termed Integrated Water Resource Planning (IWRP). The IWRP process will evaluate Greeley's long-term water supply sustainability, develop a road map to buildout and identify near-term CIP components. As part of the process, the IWRP evaluate a suit of future conditions to plan for called "planning scenarios". These scenarios define key components of future conditions such as the state of Greeley's water supply system, demands, climates and other system risks. Consequently, the IWRP team has developed a new dataset of climate-influenced hydrology to support robust and resilient water supply planning. In the past, planning centered around an 86-year hydrology data set containing a 1-in-50-year Critical Drought. The new climate-influenced hydrology captures wider variability in climate resulting in droughts of greater intensity, duration and frequency. Staff will present the modeling results of the climate-influenced hydrology on Greeley's water entitlements.

Recommended Action: Information only

Attachments: