



Date: October 16, 2018

To: Mayor and City Council

From: Ross Bintner PE, Engineering Services Manager
and Chad Millner PE, Director of Engineering

Subject: 2018 Water Supply Plan

Information / Background:

On August 2, 2017 City Council approved a request for purchase for a water system plan to support the water utility and its comprehensive planning requirements.

The Water Supply Plan is a new document that updates and replaces the Water Distribution System Analysis (August 2002), and Water Emergency and Conservation Plans (2007/8), and meets the requirements from the Minnesota DNR and Metropolitan Council for 2016-2018 Minnesota Water Supply Planning. Along with Stormwater and Sanitary Sewer plans, the Water Supply Plan serves as a basis for the water resources chapter of the 2018 City of Edina Comprehensive Plan.

The Water Supply Plan is used as a tool to identify, plan for, and address utility trends and issues in water supply, treatment, distribution, and growth that affect the utility.

Key Findings and Needs

Edina's water system supply, treatment, storage, and distribution are in good condition and provide its core services reasonably well for its age and era of construction, while minimizing cost and risk. Key findings and future needs include;

- System has capacity to serve growth contemplated in Comprehensive Plan drafts
- Average water demand is stable with counter trends of conservation and growth.
- Indoor water demand shows a strong passive conservation trend.
- Outdoor and peak day demand varies widely with climate.
 - Current system can meet 2040 peak demands for a variety of growth scenarios.
- System modernization needs include:
 - Trunk capacity improvements in northeast quadrant and Grandview district
 - Trunk capacity improvements to east-west flow capacity
 - Tapping available storage at Dublin reservoir to support water age and emergency supply
 - Water age improvements in western portions of northwest and southwest quadrants

Next Steps

Plan information is used to make required submittal to DNR and Met Council. Comprehensive plan water resources chapter will reference this report. The report will also be used to inform future capital improvements, and renew/replacement decision on neighborhood and MSA reconstruction projects.

Attachments:

Due to the size of the document, the plan is posted online. Two methods can be used to access the document:

- 1) From the city website, search “Water resources Library” and then navigate to the “Plans and Policies” folder and click on the water supply plan:
- 2) Use the direct link below to the water resource library, then navigate to the “Plans and Policies” folder and click on the water supply plan.

<http://edinadocs.edinamn.gov/WebLink/0/foi/153524/Row1.aspx>