



AGENDA ITEM FORM

SUBJECT: Receive and File Des Moines Water Works Long Range Plan 2017

SUMMARY:

- On March 22, 2016, the Board authorized staff to execute a Professional Services Agreement with HDR Engineering Inc., for long range planning activities through the year 2040.
- The agreement focused on future infrastructure improvements needed to meet projected water demands.
- Water demand projections were provided by members of the Central Iowa Regional Drinking Water Commission (CIRDWC). Projected water demands show additional water production and distribution infrastructure will be needed.
- The plan includes recommendations for improvements to source water, water treatment, and water distribution facilities.
- Recommendations have been staged for the design years 2020, 2025, 2030, 2035, and 2040.
- Base implementation plan includes the following recommendations:
 - Expand source and treatment at the Saylorville WTP from 10 mgd to 20 mgd.
 - Expand source and treatment at the McMullen WTP from 25 mgd to 37.5 mgd.
 - Three new ASR wells within the core network and two outside the core network.
 - Pumping improvement projects throughout the system.
 - Water storage improvements throughout the system.
 - Between 86 and 92 miles of additional distribution piping.
- Base improvements provide for water demands up to years 2025-2030. Three options were developed for providing the additional 25 mgd needed by the system.
 - Option 1: Expand Fleur Drive by 25 mgd.
 - Option 2: Expand Saylorville by an additional 25 mgd.
 - Option 3: Construct a 4th water treatment plant.
- The plan lays out a process for selecting the best option to obtain the additional 25 mgd. This decision will be made in future years.
- The purpose of the long range plan is to provide a usable document with which DMWW can schedule and budget required improvements. Staff will be using the plan to develop future CIP projects.

FISCAL IMPACT:

None at this time. Information from the DMWW Long Range Plan 2017 will be used to develop capital budgets that will be presented to the Board in future years.

RECOMMENDED ACTION:

Receive and file the DMWW Long Range Plan 2017.

BOARD REQUIRED ACTION:

Motion to receive and file the DMWW Long Range Plan 2017.

_____ / _____ Nathan W. Casey, P.E. (date) Project Manager	_____ / _____ Danny J. Klopfer, P.E. (date) Engineering Services Manager	_____ / _____ William G. Stowe (date) CEO and General Manager
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