

(Prepared by/Return to: Amy Kahler, Des Moines Water Works, 2201 George Flagg Parkway, Des Moines, IA 50321, 515-283-8760)

**Meeting**  
**CENTRAL IOWA REGIONAL DRINKING WATER COMMISSION**  
**Technical Advisory Committee**  
**Des Moines Water Works Board Room**  
**August 9, 2017**  
**10:00 a.m.**

**Attendees:** Shane Kinsey, Karen Oppelt, Dan Klopfer, Tim Royer, John Gibson, Amy Kahler, Nathan Casey, Diana Wilson, Jim Utter, Dale Acheson, Ken Plager, Paul Moritz, Dale Acheson, Bill Stowe

**Public:** Mark Duben, HDR; Roger Scharf, CH2M; Don Peterson, Iowa Farm Bureau Federation

**DMWW Long Range Plan**

DMWW consultant, Mark Duben, HDR, provided an overview of DMWW's Long Range Plan and opened up discussion for questions. Mr. Duben reviewed the process of developing the LRP. Projections have been developed for 5-year increments to 2040, with the 2040 projections as follows:

- Population - approx. 800,000
- Average day – approx. 90 million gallons per day (mgd)
- Max day – approx. 190 mgd

Approximately additional 49 mgd is needed from DMWW's system by 2040 to meet average day demand, and approximately 41 mgd is needed by 2040 to meet max day demand.

Mr. Duben and Roger Scharf discussed two improvements recommended to provide 25 mgd additional capacity:

- Expand Saylorville Water Treatment Plant to 20 mgd (10 mgd additional)
- Expand McMullen Water Treatment Plant to 37.5 mgd (12.5 mgd additional)
- Construct an additional ASR

The phasing of these expansions favors Saylorville first due to lower capital costs initially, as the McMullen expansion comes with higher costs related to feeder mains, etc. The remaining 25+ mgd could be provided with several alternatives, including expanding Fleur Drive Treatment Plant, a fourth water treatment plant, or expanding in the area near Saylorville Water Treatment Plant (with conventional lime softening). The Long Range Plan provides "A" and "B" scenarios for each alternative, representing changing assumptions with or without the proposed 8.0 mgd Urbandale water treatment plant.

Additional water sources were evaluated, with the Des Moines River alluvium strongly considered. A map with future potential ASR well locations was presented. The max ASR capacity is approx. 1/3 of average day demand.

Mr. Duben and Mr. Scharf provided an overview of the various alternatives considered in the study for source and treatment, base improvements at each treatment plant, and the implementation plan for those improvements.

It was noted improvements are not tied to a year, they are tied to demand. Triggers are identified within the plan to begin planning for later improvements, so if actual demand differs from projections, the plan is fluid to those changing assumptions. For example, the report included an “Altoona connection main to elevated tower” projected in 2018 but is likely too early based on expected Altoona demand over the next few years. Alternatively, the Norwalk/Cumming feeder main is projected in 2022, but is currently being designed.

### **Des Moines Water Works Board Activities for July**

Dan Klopfer and Ted Corrigan reviewed the agenda and board actions for the July 25<sup>th</sup> Des Moines Water Works Board of Trustees meeting:

- Approval of proposed board policy manual revisions – a Customer Relations committee has been added as a board committee, corporate naming policy was revised.
- Receive and file 2016 Cost of Service study - A meeting invitation will be extended to wholesale customers to participate in a DMWW presentation on the 2016 Cost of Service in late August/early September.
- Public Hearing for 2017 Well Rehabilitation at Saylorville Water Treatment Plant and Award Contract
- Authorization to Execute 28E Agreement between DMWW, Cumming, and Norwalk for Design, Construction, and Funding of Joint SW Pumping Station and Feeder Main – An amendment is being drafted to include WDMWW in the design and construction of the feeder main and design of the pump station.

The tentative board agenda for August includes:

- Argo Adventures Lease Agreement
- Request Authorization to Solicit Bids for 2017 Des Moines Water System Improvements – Contract 3 and Establish the Date of the Public Hearing as the Date of the September 2017 Board Meeting
- 2017 Fleur Drive Water Treatment Plant Ferric Chloride Storage Improvements

### **Open**

Dan Klopfer requested ideas for topics at future Technical Advisory meetings.

Bill Stowe provided an update on the regionalization effort. He reported six communities (Ankeny, Johnston, Waukee, West Des Moines, Des Moines, Urbandale) are pursuing a foundational effort and are meeting regularly. Guiding principles have been developed to guide discussions and a meeting facilitator is being considered.

### **Next Meeting Date**

The next meeting is scheduled for September 21, 2017 at Des Moines Water Works.

Meeting adjourned at 11:12 a.m.