

MEMORANDUM

DATE: September 7, 2021

TO: Ted Corrigan, P.E., CEO and General Manager

FROM: Bob Jolly, Engineering Technical Support Supervisor

SUBJECT: Innovyze Modeling Software

Des Moines Water Works uses hydraulic modeling software to predict how our water distribution system will respond to various conditions. This information can help determine factors such as system pressures, water tower levels, water age and more. These features allow designers and system operators to simulate operations as we contemplate future operations, alterations or enhancements for the broad distribution system.

Currently the Des Moines Water Works uses WaterGems for its modeling efforts. This software has been in use for many years and is now being challenged in the market place by Innovyze modeling software. WaterGems is a standalone product while Innovyze InfoWater Pro is fully integrated with the Esri ArcGIS Pro software we use to maintain our GIS (Geographic Information System) system. This close relationship has many advantages including ease of updating the model as changes are made to the system and the ability to use customer data from our GIS system within the model.

The Innovyze InfoWater Pro software has been purchased and Des Moines Water Works and Innovyze staff are in the final stages of “building the model.” Our GIS data has been entered into InfoWater Pro software and the data has been evaluated and edited twice to make sure that the software can fully take advantage of all of its features. Innovyze is currently doing its last review of the model and then will begin training for Des Moines Water Works staff in the use and maintenance of the model.